

All India Coordinated Research Project on Agrometeorology
अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना
(AICRPAM)

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अक्टूबर 2023 के दौरान जारी मौसम की स्थिति और कृषि मौसम संबंधी सलाह

Weather conditions and Agromet advisories issued during October 2023

1. सामान्य मौसम की स्थिति

1. General Weather Conditions

01 अक्टूबर - 01 नवंबर 2023 के दौरान, पूरे देश में 51.3 मिमी वर्षा हुई है, जो इसी अवधि के लिए सामान्य वर्षा (76.8 मिमी) की तुलना में -33% कम है। 36 मौसम संबंधी उप-विभाजनों में से, 05, 02, 08, 10 और 11 उप-विभाजनों में वर्षा क्रमशः बहुत अधिक, अधिक, सामान्य, कम और बहुत कम थी, जैसा कि चित्र 1 में दर्शाया गया है।

During 01 October - 01 November 2023, the country as a whole has received 51.3 mm rainfall, which is -33% deficit, compared to the normal rainfall (76.8 mm) for the same period. Out of 36 meteorological sub-divisions, rainfall was large excess, excess, normal, deficient and large deficient in 05, 02, 08, 10 and 11 sub-division(s), respectively as depicted in Fig. 1.

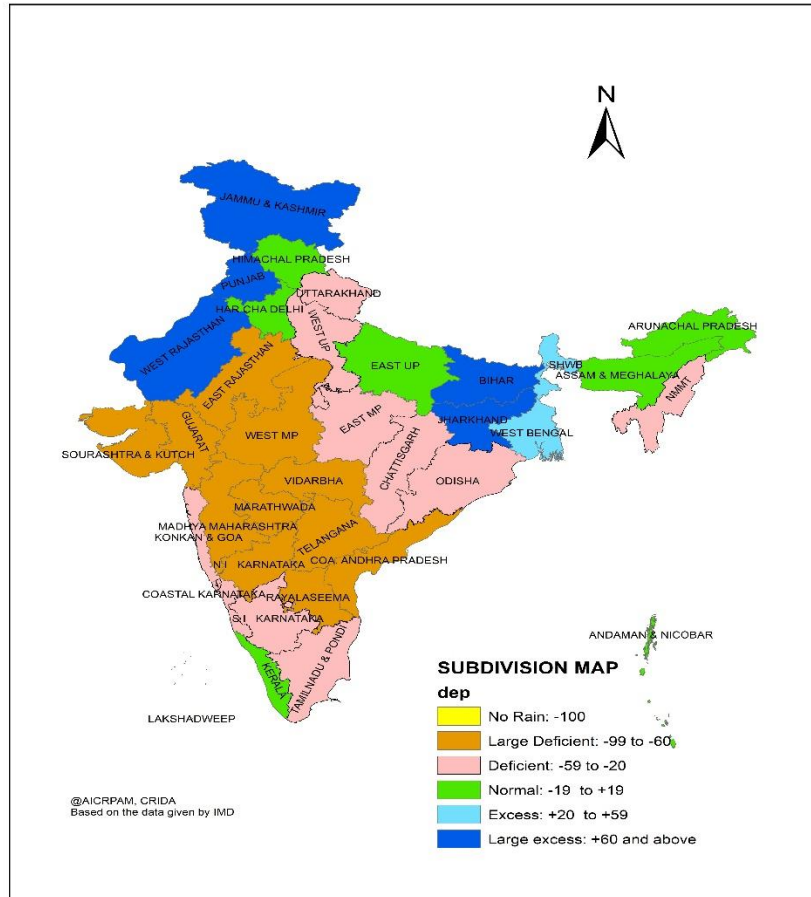


Fig. 1: Seasonal rainfall status (01 October - 01 November 2023) in 36 meteorological sub-divisions, India

1. Agromet advisories issued by AICRPAM centers during October 2023

Date of issue	Advisory issued for the region	Agromet Advisory issued
06-10-2023	Western Uttar Pradesh	<ul style="list-style-type: none"> The milk and dough stages of the paddy are highly susceptible to moisture stress. To manage this, it is essential to ensure a consistent water level of 3 to 5 cm in the field during these critical stages. Due to 15.7 mm rainfall occurred during last week, there is no irrigation required in pigeon pea (vegetative/branching stage) and sorghum crop (flowering stage).
	Eastern Uttar Pradesh	<ul style="list-style-type: none"> The late sown maize crop is at milking to grain filling stage, which is sensitive to moisture stress, farmers are advised to provide light irrigation as per requirement to maintain proper moisture in the field. If leaf roller insect observed in pigeon pea crop which is at vegetative/branching stage, then farmers are advised to spray Fenitrothion 50 EC 2.0 litre/ha with 500 to 600 litres of water.
	Uttarakhand	<ul style="list-style-type: none"> It is recommended to sow mustard/toria, wheat and barley in the high hill regions of Uttarakhand. Farmers are advised to keep continuing the sowing of the onion nursery. Seed treatment should be applied before sowing of seeds. Avoid over watering. Use dry grass as mulch between rows to help conserve soil moisture in vegetable pea crop field.
	Assam	<ul style="list-style-type: none"> As rainfall is forecasted in most of the districts of Assam during this week, farmers may postpone the land preparation for sowing of maize. As soon as rainfall recedes, farmers may go for final land preparation followed by sowing of seeds. The optimum sowing window is from mid-September to mid-October. And it is also advised, to adopt climate resilient technologies like- adoption of submergence tolerant varieties. Go for weather-based crop insurance.
	Jharkhand	<ul style="list-style-type: none"> Due to the heavy rainfall occurred during past week, farmers are advised to drain out excess water from the rice field (PI stage) and maintain about 5-10 cm

	Jharkhand	<p>standing water during. Also apply second top of top dressing of urea @ 17 kilogram per acre in clear weather.</p> <ul style="list-style-type: none"> • Timely sown maize is at cob initiation stage, it is advised to maintain proper drainage channel in the field. • Second weeding is advised in timely sown pigeon pea crop (50 to 55 days old) and in late sown (25 to 30 days old) first weeding is recommended.
13-10-2023	Himachal Pradesh	<ul style="list-style-type: none"> • Under prevailing weather condition, farmers are advised to harvest paddy during clear weather condition. • It is also the optimum time for the sowing of oats for fodder purpose. The varieties recommended are <i>Palampur-1 and Kent</i>. • Farmers are also advised for sowing of gobhi sarson.
	Punjab	<ul style="list-style-type: none"> • It is optimum time for sowing of spinach, fenugreek, coriander, radish, turnip, garlic and early varieties of pea viz., <i>Matar ageta-7 and AP-3</i>. • Sowing of early varieties of potato is also advised. Recommended varieties are <i>Kufri Surya, Kufri Pukhraj, Kufri Ashoka and Kufri Chandramukhi</i>.
	Jammu	<ul style="list-style-type: none"> • Due to chances of rainfall in next week, farmers are advised to go for harvesting and threshing of early mature rice crop immediately to prevent grain shattering during thunderstorms and shift threshed crop immediately to safer places. • To control brown spot in late sown Basmati rice which is at soft dough/milking, it is advised to spray Propiconazole @ 1 ml/litre during clear weather @ 2-3 sprays at 15 days intervals.
	Anantapur	<ul style="list-style-type: none"> • Due to the forecast of below normal rainfall, farmers are advised to take up foliar spray of KNO₃ @ 5 grams per litre of water to mitigate the adverse effect of dry spell.

	Gujarat	<ul style="list-style-type: none"> Land preparation is advised for sowing of mustard crop. Recommended varieties are <i>Varuna</i>, <i>Gujarat Mustard-1</i>, <i>2</i>, <i>3</i>, <i>GDM 4</i>, <i>Bio-902</i> etc. Prepare the land for garlic crop cultivation. Select high yielding varieties like <i>Gujarat Garlic 3</i>, <i>Gujarat Garlic 4</i>, <i>Gujarat garlic 7</i>, <i>Gujarat Anand garlic 6</i>, <i>Gujarat Junagadh Garlic 5</i>, <i>Yamuna Safed-2</i>, <i>3</i>.
20-10-2023	Parbhani	<ul style="list-style-type: none"> After harvesting of <i>kharif</i> crops sowing of <i>rabi</i> sorghum is advised early as possible, as per availability of water or at available soil moisture, with a spacing of 45x15 cm spacing.
	Chhattisgarh	<ul style="list-style-type: none"> Under prevailing weather condition, farmers are advised to harvest the matured crops like black gram, green gram and soybean. Due to the forecast of below normal rainfall, during next week, and increase in temperature, light irrigation as per need basis for <i>rabi</i> crops need to be provided.
	Odisha	<ul style="list-style-type: none"> Farmers are advised to maintain about 5-10 cm standing water during panicle initiation stage in paddy and keep the field clean from weeds. Prevailing weather condition is optimum for land preparation and nursery sowing of cauliflower, cabbage, knolkhol, carrot and radish. To manage <i>Epilachna</i> beetle in cucurbits, it is advised to spray neem-based pesticide (Neem Oil 1500 ppm) @ 3 ml/litre of water at early stage of infestation.
	South Interior Karnataka	<ul style="list-style-type: none"> Early sown ragi crop is at ear head formation and grain filling stage, farmers are recommended for ear head tying to protect from lodging of crop. Deep ploughing is recommended in mango orchard, for conserving the soil moisture and removal of weeds in the field. Wherever over population of crop plants is existing, thinning operation is advised for better availability of scarce soil moisture to the reduce population of crop plants.

20-10-2023	Kerala	<ul style="list-style-type: none"> • To control sigatoka leafspot disease in banana cut and remove all severely affected leaves and spray Propiconazole 1 ml/litres of water. • There is a chance of thrips attack in chilli crop. If the infestation is less, it is advised to spray 2% neem oil+ garlic emulsion under the leaf surface at 10 days intervals. If it is severe then spray Cyantraniliprole 10.26 % OD @ml or Acetamiprid 20 % SP @ 0.2 g per litre water.
	West Bengal	<ul style="list-style-type: none"> • Farmers are advised to process the harvested rice as early as possible and store in clean and airy condition inside gunny bags.
	Bihar	<ul style="list-style-type: none"> • Monitoring of <i>khaira</i> disease is advised in late transplanted paddy. If symptoms occur, spraying of zinc sulphate @ 5.0 kg mixed with lime @ 2.5 kg in 500 litres of water is advised for one hectare cropped area. • Early sowing of radish is advised. <i>Pusa chetki</i>, <i>Pusa desi</i>, <i>Jounpuri</i>, <i>Pusa himani</i>, <i>Japani safed</i>, <i>Pusa rashmi</i>, <i>Punjab safed</i> and <i>Arka nishant</i> varieties of radish are advised for sowing in North Bihar region. • Nursery sowing of early varieties of cabbage is advised. <i>Pride of India</i>, <i>Golden Acre</i>, <i>Pusa mukta</i>, <i>Pusa agate</i> and <i>early drum head</i> varieties of cabbage are recommended for sowing under North Bihar agro climatic condition
	North Interior Karnataka	<ul style="list-style-type: none"> • As there is a forecast of below normal rainfall during next week, if irrigation facility is available sowing of chickpea and wheat crops may be taken up on preference. • As no rainfall is forecasted during next week, it is advised to provide protective irrigation to the crops. • Under prevailing weather condition, repeated intercultivation is advised to conserve soil moisture and control weed infestation in already sown crops.
27-10-2023	Rajasthan	<ul style="list-style-type: none"> • Prepare the field for sowing of gram under conserved moisture. Recommended gram varieties are: <i>GNG-146</i>, <i>RSG-44</i>, <i>RSG-888</i>, <i>RSG-902</i>, <i>RSG-895</i>, <i>Pratap Raj Chana</i> and <i>Pratap Chana-1</i>. • After harvesting of <i>kharif</i> crops, it is advised to dry the crops in the field for 2-3 days and thereafter threshing recommended. Before storing, grains should be dried to bring down moisture level below 12%. In case of rainfall keep crop under shade for drying.

27-10-2023	Konkan	<ul style="list-style-type: none"> • To prevent fruit cracking in arecanut, it is advised to provide irrigation and spray Borax 0.5%. • There is a possibility of the incidence of tea mosquito bug on newly developed flush of cashewnut. If incidence is noticed, spray Lambda cyhalothrin 5% EC @ 6 ml per 10 litres during clear weather (no rainfall). • There is possibility of increase in temperature, hence in poultry shed, increase the water pot and provide adequate and clean water for drinking.
	Madhya Maharashtra	<ul style="list-style-type: none"> • Thinning in <i>rabi</i> sorghum (8-10 DAS) is recommended for maintaining the plant population and reducing the moisture loss due to competition. • If an irrigation facility is available, sowing of improved varieties of safflower is advised. Recommended improved varieties is SSF- 708 can be sown up to 15th November.
	Madhya Pradesh	<ul style="list-style-type: none"> • Under prevailing weather condition, farmers are advised for field preparation for sowing of field pea, potato, mustard, lentil and other rabi crops. • As there is forecast of no rainfall and temperature likely to be increase during next week, farmers are advised for irrigation management in late sown rice (July) crop.