

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

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मार्च 2024 के दौरान जारी मौसम की स्थिति और कृषि मौसम संबंधी सलाह

Weather conditions and Agromet advisories issued during March 2024

1. सामान्य मौसम की स्थिति

1. General Weather Conditions

01 मार्च - 31 मार्च 2024 के दौरान, पूरे देश में 28.5 मिमी वर्षा हुई है, जो इसी अवधि के लिए सामान्य वर्षा (29.9 मिमी) की तुलना में -5% कम है। 36 मौसम संबंधी उप-प्रभागों में से 10, 05, 04, 05 और 12 उप-प्रभागों में वर्षा क्रमशः बहुत अधिक, अधिक, सामान्य, कम और बहुत कम थी, जैसा कि चित्र 1 में दर्शाया गया है।

During 01 March – 31 March 2024, the country as a whole has received 28.5 mm rainfall, which is -5% deficit, compared to the normal rainfall (29.9 mm) for the same period. Out of 36 meteorological sub-divisions, rainfall was large excess, excess, normal, deficient and large deficient in 10, 05, 04, 05 and 12 sub-division(s), respectively as depicted in Fig. 1.

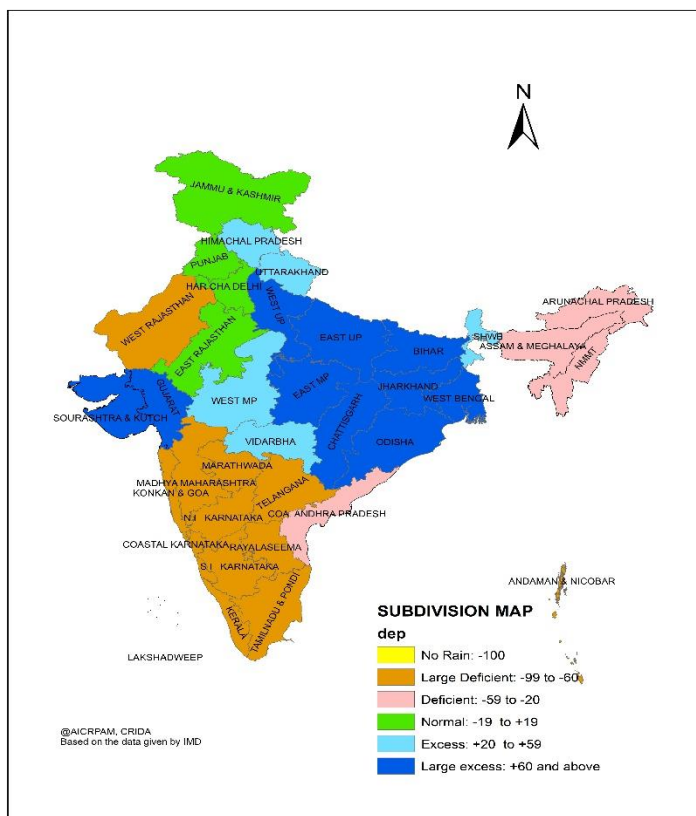


Fig. 1: Monthly rainfall status (01 March - 31 March 2024) in 36 meteorological sub-divisions, India

1. Agromet advisories issued by AICRPAM centers during March 2024

Date of issue	Advisory issued for the region	Agromet Advisory issued
01-03-2024	Uttar Pradesh	<ul style="list-style-type: none"> As per the forecast of above-normal rainfall in this week, farmers are advised to postpone irrigation in wheat (flowering/anthesis and milking stage) and barley crops (anthesis/ milking/ dough). Under prevailing weather condition, if leaf roller infestation is observed in pigeon pea during vegetative/branching stage, it is advised to spray Spinosad 45 % SC @ 2 ml per 10 litre water or Quinalphos 25 EC @1 to 1.4 ml/litre water is advised
	Himachal Pradesh	<ul style="list-style-type: none"> In the plains as well as lower hills of the state, farmers are advised to go for the sowing of sunflower with recommended varieties is EC 68415. The crop should be sown using a seed rate of 8-10 kg/ha (400 g/kanal) and at a spacing of 50 cm x 25 cm (row x plant) The weather is suitable for the attack of pink eye disease in newly born calves. For control, prepare the solution of 1% boric acid in boiled water and wash eyes at regular intervals of three hours.
	Jammu	<ul style="list-style-type: none"> Due to the chances of above-normal rainfall in this week, farmers are advised to make arrangements to drain out excess rainwater from fields so that rainwater does not stagnate in fields. Due to the chances of rainfall, farmers are advised to postpone the direct sowing of vegetable crops till the soil remains in <i>vattar</i> conditions.
	Haryana	<ul style="list-style-type: none"> Due to the forecast of above-normal rainfall in this week, farmers are advised to avoid irrigation in wheat crop or application of fertilizers and not allow water to stagnate in the field. Farmers are also advised to keep regular watch at their fields because this weather is favorable for the development of white rust disease and the incidence of mustard aphids. In the early stage of incidence, destroy the infested part of the plant.
	Parbhani	<ul style="list-style-type: none"> As per forecast of thunderstorm along with light to moderate rainfall at isolated places, it is advised to cover the harvested soybean crop with the help of

		<p>polyethene/tarpaulin. Store the threshed grains at safe places. Precaution should be taken so that water may not stagnate in crops where rainfall was received.</p> <ul style="list-style-type: none"> • Mechanical support is advised to provide to newly planted banana plants. The places where gusty wind, thunderstorm and rainfall was observed collect and destroy infected fruits and pruning of broken branches should be done.
	Marathwada	<ul style="list-style-type: none"> • As per forecast of light to moderate rainfall along with thunderstorms during this week, harvesting of timely sown and mature wheat crop and <i>rabi</i> sorghum is advised and store the harvested produce at safe places. Cover the harvested produce with the help of polyethene/tarpaulin. • As per the increase in maximum temperature, irrigation management is advised in late sown <i>rabi</i> sorghum and wheat crops during grain filling stage (90 to 95 DAS).
08-03-2024	Assam	<ul style="list-style-type: none"> • As per ERFS, rainfall is likely to be below normal in this week, it is advised to undertake need based irrigation in field crops to avoid moisture stress in standing field crops/vegetables. • Maintain standing water at 5±2 cm depth in the boro rice field after 2-3 days of transplanting. Topdressing of urea @ 6 kg/bigha is advocated after 25 days of transplanting.
	West Bengal	<ul style="list-style-type: none"> • As there is below normal rainfall forecast, harvesting of mustard, potato and other vegetables are advised and provide irrigation as per requirement in rice, maize and wheat field. • Due to the forecast of below-normal rainfall water stress may occur in tomato crop and cause flower drop. To control, it is advised to apply a timely and required amount of irrigation. Spray Boron 20% 2 gram/lit during early flowering and 15 days later.

08-03-2024	Haryana	<ul style="list-style-type: none"> • Due to forecast of below normal rainfall, farmers are advised for irrigation in wheat crop and application of fertilizers • Due to possibility of dry weather, farmers are advised to spray recommended chemicals to control mustard aphid, white rust and Alternaria blight diseases in mustard crop.
	Rajasthan	<ul style="list-style-type: none"> • To avoid the damage in wheat crop due to terminal heat because of sudden rise in temperature, farmers are advised to spray Potassium chloride 0.2 per cent at heading stage to reduce the losses and also due to high temperature water demand of the rabi crops may also increase. Therefore, farmers are advised to irrigate the crops as and when crops show wilting symptoms and as per need on the basis of critical growth stages. • Due to increase in temperature, there is a possibility of pest and disease infection in timely sown crops. Therefore, regularly watch fields, to diagnose insect pest and disease infestation for timely and effective management.
	Vidarbha	<ul style="list-style-type: none"> • Due to forecast of below normal rainfall, it is advised to undertake need based irrigation in field crops like very late sown wheat, <i>rabi</i> maize/ sorghum, orchards and vegetables. Follow micro-irrigation systems for irrigation, to reduce excessive use of water. • Under prevailing dry weather condition, farmers are advised to harvest the matured early sown and timely sown wheat crop and chickpea crop and store at safer place.
	Madhya Maharashtra	<ul style="list-style-type: none"> • Application of NAA (Planofix 20 ppm @ 40 ml in 200 lit water) is suggested for reducing flower and fruit drop in mango. • Under prevailing weather conditions, it is advised to complete the sowing of summer vegetables.

15-03-2024	Kerala	<ul style="list-style-type: none"> • Since dry and hot weather is prevailing and forecast for normal rainfall during this week, farmers are advised to irrigate the crops as per need to ensure adequate soil moisture. Proper mulching is advised to follow to conserve soil moisture. Adopt drip irrigation method for maximum water use efficiency. • Due to the increase in atmospheric temperature, the attack of sucking pests was increased. To control, it is advised to apply 2% neem oil emulsion once in a week
	Tamil Nadu	<ul style="list-style-type: none"> • Due to forecast of dry weather with high wind speed over Tamil Nadu, farmers are advised for irrigation as per soil moisture condition in all irrigated crops. • Due to heavy dew falls there is a possibility of rice blast disease occurrence. To control the rice blast disease, it is advised to spray Azoxystrobin 25 SC ml/litre. • Dry weather may induce tobacco cutworm in chilli crop. To prevent, it is advised to spray with Spinosad 45% SC 3.2 ml/10 litres of water or Emamectin benzoate 5% SG 4 g/10 litres.
	Andhra Pradesh	<ul style="list-style-type: none"> • In view of no rain and deficit rainfall and above normal maximum temperatures conditions for the coming two weeks in Andhra Pradesh, farmers are advised to give frequent irrigations to the all crops like groundnut (pod formation stage), mango (flowering to fruit formation stage) based on soil conditions. • Current weather conditions are congenial for the incidence of powdery mildew and jassid in mango. For effective control, farmers are advised to spray Hexaconazole @ 2.0 ml or Carbendazim @1.0 g or Fipronil @2.0 ml or Imidacloprid @0.5 ml per litre of

	Rajasthan	<ul style="list-style-type: none"> • To avoid the damage in wheat crop due to terminal heat because of sudden rise in temperature, farmers are advised to spray Potassium chloride 0.2 per cent at heading stage to reduce the losses and also due to high temperature water demand of the rabi crops may also increase. Therefore, farmers are advised to irrigate the crops as and when crops show wilting symptoms and as per need on the basis of critical growth stages.
22-03-2024	South Interior Karnataka	<ul style="list-style-type: none"> • 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 • Farmers are advised for one or two protective irrigation at the marble stage to protect fruit drop at this stage.
	North Interior Karnataka	<ul style="list-style-type: none"> • As forecast of below normal during this week, farmers are advised to provide irrigation to horticultural crops. • Complete the harvesting of matured crops like groundnut, sorghum, wheat, safflower, sunflower and sugarcane crops. • Summer ploughing is advised across the slope to incorporate crop residues in the soil, to conserve runoff water of pre-monsoon rainfall and reduce soil erosion.
	Odisha	<ul style="list-style-type: none"> • Due to heavy rainfall occurred in past week, farmers are advised to make bund for conserving rain water in the paddy field. Make bund higher and wider so that more rain water can be conserved in the field. • Drain out excess water from vegetable nursery and non paddy field by keeping drain ends open. • After receding of rain water there is a chance of infestation of swarming caterpillar in paddy. To control this, it is advised to spray Chlorpyrifos 50% + Cypermethrin 5% EC @ 400 ml/acre or Lambda-cyhalothrin @ 400 ml/acre.
	Assam	<ul style="list-style-type: none"> • In areas with heavy to medium textured soils and having assured irrigation facilities, farmers are advised to continue nursery sowing of ahu rice seeds. Select seeds of recommended semi-dwarf varieties

		<p>like <i>IR-36, Lachit, Chilarai, Dishang</i> etc. for obtaining higher yield.</p> <ul style="list-style-type: none"> • Due to forecast of above normal rainfall in this week, farmers are advised to postpone the second topdressing of urea in boro rice till clear weather.
29-03-2024	Uttar Pradesh	<ul style="list-style-type: none"> • Due to forecast of below normal rainfall and higher maximum temperature forecast during this week, farmers are advised for light irrigation in wheat crop. • Due to clear weather forecast during this week farmers are advised sowing of zaid maize crop in vacant field with recommended composite varieties viz., <i>Novjoti, Pusa-2, Sweta and Azad uttam and hybrid varieties viz., Hybrid Dakan-107, Malviya hybrid-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113, Azad hybrid-1, Azad hybrid-2, DKC-9108, DKC-7074.</i>
	Jammu	<ul style="list-style-type: none"> • Due to the chances of rainfall in this week, it is advised to postpone irrigation in late and very late sown wheat crop and also postpone the chemical plant protection measures in this week. • Due to chances of rainfall, harvest the mustard crop immediately to prevent the shattering of seeds. Keep the bundles of harvested mustard in stacks or shift harvested crop to safer places or cover the harvested crop with polythene sheets/tarpaulin.
	Punjab	<ul style="list-style-type: none"> • Start sowing of summer udad dal with recommended varieties Mash 1137 and Mash 1008. Sow mash at 22.5 cm row to row distance by using 20 kg seed per acre. • In timely wheat sown crop, apply two sprays of 2% Potassium nitrate (13:0:45) by dissolving 4 kg Potassium nitrate in 200 litres of water at boot leaf and at anthesis stage or apply 2 sprays of Salicylic acid by dissolving 15 g Salicylic acid in 450 ml of ethyl alcohol using 200 litres of water per acre at boot leaf and early milk stages to mitigate the effect of high temperature at grain filling and enhance the wheat yield.
	Odisha	<ul style="list-style-type: none"> • High temperature in day hours may lead to wilting in tomato and brinjal. To protect farmers are advised to apply 1 g Streptocycline in 10 litres water in root zone. • Mulching of leaves around newly planted cashewnut plants is advised to conserve moisture. Irrigate 20 to 25 litres per plant.

	Konkan	<ul style="list-style-type: none"> • In some pockets of Konkan region, harvesting of the mature mango fruits before 10 hours in the morning and after 16 hours in the evening at 80 to 85% maturity is advised. • To protect animals from heat because of increase in temperature, sprinkling cold water on animals during the afternoon was suggested to maintain the body temperature.
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