

All India Coordinated Research Project on Agrometeorology

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

(AICRPAM)

केंद्रीय बारानी कृषि अनुसंधान संस्थान

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

Weather conditions and Agromet advisories issued during July 2024

1. सामान्य मौसम की स्थिति

1. General Weather Conditions

01 जून - 31 जुलाई 2024 के दौरान, पूरे देश में 453.8 मिमी वर्षा हुई है, जो इसी अवधि के लिए सामान्य वर्षा (445.8 मिमी) की तुलना में 2% अधिक है। 36 मौसम संबंधी उप-प्रभागों में से 13, 14 और 09 उप-प्रभागों में वर्षा क्रमशः अधिक, सामान्य और कम थी, जैसा कि चित्र 1 में दर्शाया गया है।

During 01 June - 31 July 2024, the country as a whole has received 453.8 mm of rainfall, which is 2% excess, compared to the normal rainfall (445.8 mm) for the same period. Out of 36 meteorological sub-divisions, rainfall was excess, normal and deficient in 13, 14, and 09 sub-division(s), respectively as depicted in Fig. 1.

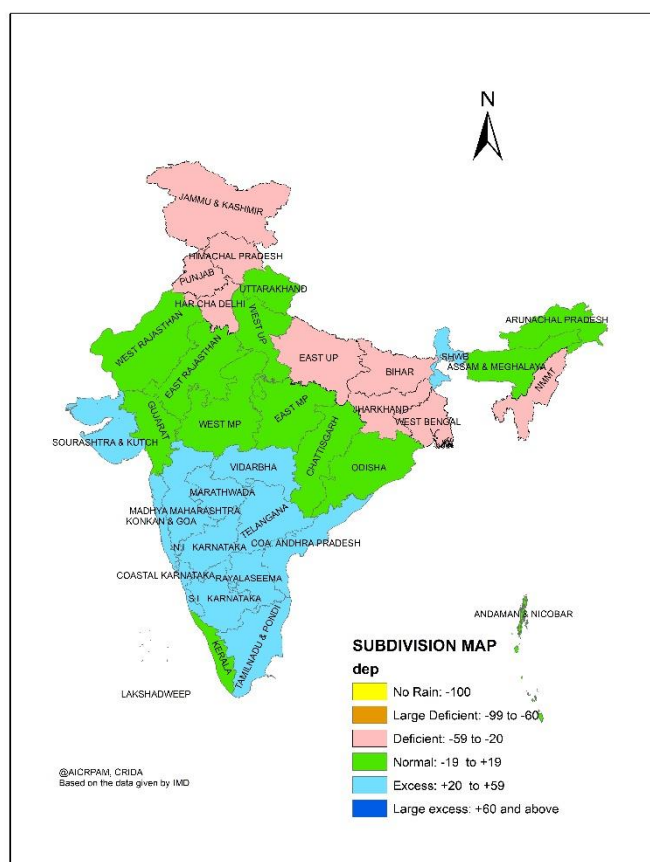


Fig. 1: Monthly rainfall status (01 June – 31 July 2024) in 36 meteorological sub-divisions, India

1. Agromet advisories issued by AICRPAM centers during July 2024

Date of issue	Advisory issued for the region	Agromet Advisory issued
05-07-2024	Western Uttar Pradesh	<ul style="list-style-type: none"> As per the extended range forecast above normal rainfall during 05 -18 July in central and western parts of UP. Farmers are advised to drain out excess water in the maize field. Sowing of maize with hybrid varieties such as <i>Azad hybrid-1</i>, <i>Azad hybrid-2</i>, <i>DEKC-7074 Ganga-11</i>, <i>HQPM-5</i>, <i>Sartaj</i>, <i>MS maize-2</i> and <i>Sankul varieties Prabhat</i>, <i>Azad uttam</i>, <i>Pragati</i>, <i>Gaurav</i>, <i>Pro-316 (4640)</i> <i>Bio-9681</i> and <i>Y-1402-K</i> after 10th July at optimum moisture condition is recommended. As per the extended range forecast above normal rainfall during 05 -18 July, farmers are advised to take benefit of the 130.0 mm rainfall that occurred during the past week, transplant the rice seedlings of 10 to 15 cm high or 2-3 leaves available seedlings. If paddy nursery is still not raised then direct sowing is advised with short-duration paddy variety.
	Assam	<ul style="list-style-type: none"> Due to flood condition in the during state due forecast of above normal rainfall, Brahmaputra river has been flowing above danger level. About 29 districts in Assam were affected. Specific advisory issued for flood conditions: <ul style="list-style-type: none"> Avoid staying in areas that are prone to landslides. Seek shelter during thunderstorms and lightning. Apply mulch at the base of crops to protect soil and roots. Refrain from working in fields during thunderstorms and lightning. Delay the planting of rice, jute, maize, and vegetables; if already planted, prevent waterlogging and cover the seeded area with natural mulch materials like straw and farm residues. Due to ongoing flood activities it is advised to take precautions during sowing of Sali rice seeds in flood-prone areas. Sowing should be done in upland areas free from water stagnation and having sufficient slope for draining out the excess rainwater and seeds not submerged after sowing.
	West Bengal	<ul style="list-style-type: none"> Prevailing cloudy sky and moderate to heavy rainfall are expected during this week. Maintain proper

		<p>drainage channels in the fields (jute, rice, okra and chilli) to avoid water stagnation. Farmers are advised not to fertilize, or spray pesticides and herbicides on rainy days. Irrigation systems should be well maintained and remove excess water in the field.</p> <ul style="list-style-type: none"> • Rainwater harvesting is advised to practice for jute retting. Farmers may cut the jute for retting.
	Jammu	<ul style="list-style-type: none"> • Don't allow transplanted seedlings (especially basmati) to submerge in rainwater for more than 2 days, it will cause yellowing of plants and eventually death after 10-12 days. Drain out excess rainwater from fields maximum after 2 days. • Farmers may go for sowing of Mash (var: <i>Pant U-19, Uttara</i>) & Moong (var: <i>SML-668</i>) after receipt of rain at optimum soil moisture conditions in rainfed areas. Inoculate the seed with rhizobium culture before sowing to get a better yield. If sown, drain out excess rainwater from the field.
	Himachal Pradesh	<ul style="list-style-type: none"> • As enough rains occurred during the past week and rainfall forecast during this week as per MRF. Farmers are advised to transplant paddy. Transplant paddy seedlings 20 cm apart in lines with 15 cm plant-to-plant distance. Keep one or two seedlings/hill. Gap filling of the seedlings should be done after 5 to 10 days after transplanting. • As heavy rains are expected in next five days as per MRF, it is advised to ensure proper drainage in the fields sowing of soybean recommended after the rains. Varieties Recommended: Shivalik, Green Soya, Palam Soya, Him Soya or Him Palam Green Soya) Recommended Seed rate: 75-100 kg/ha.
	Gujarat	<ul style="list-style-type: none"> • Drain out excess rain water from standing sugarcane fields. Postponed spraying chemical and fertilizer application. Postponed the different activities of farm operations. Prop the sugarcane canes with strong bamboo or tie the canes together in a clump with sugarcane leaves to protect against wind and heavy rain. • Select greengram varieties like <i>GM-4, GAM-5, GM-7, GM-8, Meha</i> etc., Black gram: <i>Gujarat Black gram-1, 2, T-9</i> etc. Sowing should be done after enough rainfall is received up to 15th July.

12-07-2024	Kerala	<ul style="list-style-type: none"> • Propping of the banana plants is recommended. Make necessary arrangements for proper drainage in the fields. Fertilizer application may be postponed during heavy rainfall periods. • During the rainy season, leaf fall in nutmeg is likely. As a prophylactic measure to manage leaf fall in nutmeg, spray 1% Bordeaux mixture. Proper drainage facilities must be ensured.
	Tamil Nadu	<ul style="list-style-type: none"> • Considering the high wind speed with light rainfall it is advised to provide propping to the sugarcane by tying the opposite row to prevent it from lodging. • With the receipt of anticipated rainfall, land preparation and sowing may be initiated for irrigated Cambodia cotton and completed before August 15. • Due to the forecast of above-normal rainfall this week, it is advised to provide drainage facilities in all crop fields. Postpone the intercultural / plant protection activities like fertilizer and pesticide application, till the rain stops. • As strong winds coupled with rainfall are expected staking and drainage facilities are advised to provide to young rubber, banana, and fruit trees.
	Punjab	<ul style="list-style-type: none"> • Cotton crops must not be allowed to suffer from water stress during the flowering stages. To control the attack of pink bollworms in cotton, use stick/delta traps with at least 10 micro litre of gossyplure and place it at 15 cm above the crop canopy. • Under prevailing weather condition, farmers are advised to sow the rainfed groundnut crop with the advent of monsoon in the last week of June or in the first week of July. Complete the sowing as early as possible.

19-07-2024	Marathwada	<ul style="list-style-type: none"> • Due to the forecast of above-normal rainfall in isolated places of Marathwada region, it is advised to make arrangements to drain out excess water from kharif crops, orchards and vegetables. • Undertake intercultural operations in cotton, pigeon pea, black gram and green gram at <i>wapsa</i> conditions during clear weather. • Due to the present cloudy and humid weather, sap-sucking pests may be observed in 15 days cotton, for its control spray 5% neem ark during clear weather.
	Madhya Maharashtra	<ul style="list-style-type: none"> • Due to the forecast of above-normal rainfall at isolated places, it is advised to make arrangements to drain out excess water from rice nurseries, orchards and vegetables, continue transplanting of rice, and provide mechanical support to banana plantations. • Due to the present cloudy and humid weather, sap-sucking pests may be observed in 15 days cotton, for its control spray 5% neem ark during clear weather.
	Konkan	<ul style="list-style-type: none"> • As there is forecast for heavy to very heavy rainfall make arrangement for drain out excess water from rice nursery and maintain optimum water level of 2.5 to 5 cm in transplanted rice field. Due to warnings of extremely heavy rainfall at isolated places postpone the transplanting operation in those regions for two to three days.
	Jharkhand	<ul style="list-style-type: none"> • After rain, when there is proper water accumulation in the low land fields, start the paddy transplanting with proper seeding. If enough water has not been accumulated in the fields for transplanting, then collect water by flowing water from the upper lands and start the work of planting when enough water is accumulated. If germination is not done uniformly in the already sown crop, then sow the seeds again in the gaps or if the number of plants has increased in one place, then uproot it and plant it in the gaps.

26-07-2024	Bihar	<ul style="list-style-type: none"> • In view of forecasted light rainfall, undertake transplanting of rice in low/medium land areas; carry out weeding in 20-25 days old paddy crop. • Prevailing weather is favorable for planting mango, litchi, amla, guava, jackfruit, custard apple and lemon; before planting, apply 40 to 50 kg of rotten cow dung per pit; do not plant when it is raining. • Nursery sowing of chili in raised seedbed is advised. Improved varieties such as <i>Pant mirch-3</i>, <i>Krishna</i>, <i>Arka lohit</i>, <i>Pusa jwala</i>, <i>Pusa sadabahar</i>, <i>Punjab lal</i>, <i>Kashi anmol</i> and Hybrid varieties such as <i>Agni rekha</i>, <i>Kalyanpur chaman</i>, <i>Kalyanpur chatatkar</i>, <i>BSS-267</i> of chili are recommended for sowing in North Bihar. It is advised to treat the seeds with Thiram 75% dust before sowing.
	Chhattisgarh	<ul style="list-style-type: none"> • Undertake sowing of kharif crops like soybean, cotton, If rice transplanting has not taken place yet, it is advised for sowing of short to medium-duration varieties of rice like <i>Vikram TCR</i>, <i>Mahamaya</i>, <i>MTU-1010</i> etc. should be sown in lines (direct Seeded Rice). The seed rate is advised higher than recommended by 15-20 per cent. • Undertake sowing of soybean, pigeon pea, green gram, black gram, maize, finger millet & kutki at optimum soil moisture conditions after current spells of heavy rain. • Training-pruning and nutrient management should be completed in the old fruit trees and last year's planted fruit plants.
	Odisha	<ul style="list-style-type: none"> • Due to the forecast of above-normal rainfall during this week, it is advised to cover the vegetable nursery with polythene to protect it from heavy rain and make drainage arrangement. • In low land, go for transplanting of 21 days rice seedlings in the main field. Keep rainwater in the main rice field by bunding for timely puddling and transplanting. • Cover the vegetable nursery with polythene to protect it from heavy rain and make drainage arrangements. • In heavy rainfall areas, stop the sowing of seeds and top dressing of fertilizers or herbicides for time being.
	Andhra Pradesh	<ul style="list-style-type: none"> • Because of the rains the weed problem may increase in rice. To control, it is advised to apply Pyrazosulfuron-ethyl @ 80-100 g/acre at 4-7 DAS mixed in sand @ 20-25 kg/acre. • In the scarce Rainfall Zone, utilizing the available soil

26-07-2024		<p>moisture, continue sowing of castor. Carry out intercultural operations in rainfed crops to control weeds and mulch the soil with crop residue to conserve soil moisture.</p> <ul style="list-style-type: none"> Continue nursery sowing of rice and chilli. Continue sowing of red gram in light, red and black soils with good drainage are good for cultivating red gram.
	Haryana	<ul style="list-style-type: none"> In view of the anticipated vigorous monsoon activity during next 2 weeks the irrigation in the crops (cotton, sugarcane mango orchards) may be withheld and make arrangements for excess water drainage, if required in case of heavy rainfall. Keep water standing in paddy field only for 2 weeks and thereafter apply irrigation 2 days after the ponded water has infiltrated into soil. Maintain proper drainage in the field and remove stagnant rainwater immediately after rainfall.
	Uttarakhand	<ul style="list-style-type: none"> Complete transplanting of rice seedlings. Maintain proper water level in the crop field. Top dressing ½ kg of Urea per nali at the tillering stage can be done. Drain out excess water from sugarcane and maize fields. Undertake sowing of black gram and green gram at optimum soil moisture condition.
	Odisha	<ul style="list-style-type: none"> Due to the forecast of above-normal rainfall during this week, it is advised to cover the vegetable nursery with polythene to protect it from heavy rain and make drainage arrangement. In low land, go for transplanting of 21 days rice seedlings in the main field. Keep rainwater in the main rice field by bunding for timely puddling and transplanting. Cover the vegetable nursery with polythene to protect it from heavy rain and make drainage arrangements. In heavy rainfall areas, stop the sowing of seeds and top dressing of fertilizers or herbicides for time being.