

All India Coordinated Research Project on Agrometeorology (AICRPAM)

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Weather conditions and Agromet advisories issued during December 2021

1. General Weather Conditions

During 01 October- 31 December 2021, the country as a whole received 178 mm rainfall, which is 44% excess, compared to the normal rainfall (124 mm) for the same period. Out of 36 meteorological sub-divisions, rainfall was large excess, excess, normal and deficient in 16, 09, 06 and 05 sub-division(s), respectively as depicted in Fig. 1.

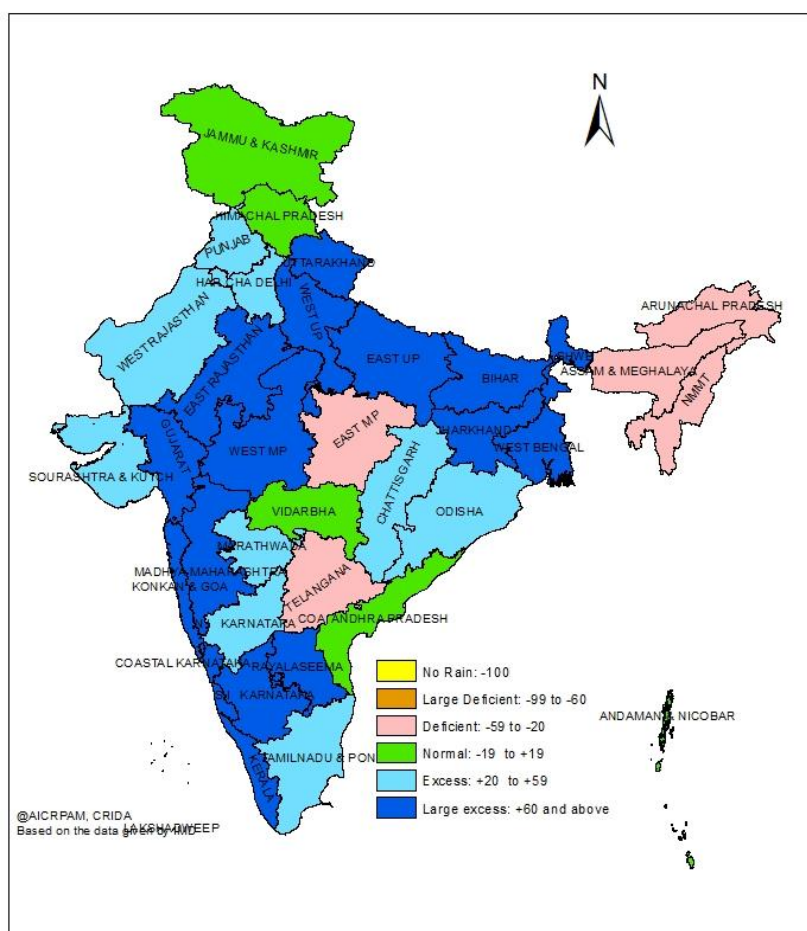


Fig. 1: Seasonal rainfall status (01 October - 31 December 2021) in 36 meteorological sub-divisions, India

2. Agromet advisories issued by AICRPAM centers during December 2021

Date of issue	Advisory issued for the region	Agromet Advisory issued
03-12-2021	Tamil Nadu	Current weather condition is favorable for shoot weevil infestation in cotton. To prevent, soil application of Carbofuran 3 G @ 30 kg is advised 20 days after sowing and earthing up.
	Marathwada	Due to cloudy weather condition during last few days, there may be pod borer infestation in timely sown chickpea crop. To control, it is advised to spray 5% NSKE or Quinalphos 25% EC @ 20 ml or Emamectin benzoate 5% @ 4.5 g per 10 litres of water.
	Hisar	There is a possibility of fall in night temperature and variable weather. Therefore, farmers are advised to keep the animal under sheds and clean the surrounding to control fly and mosquito in cattle shed.
	Jammu	Due to the presence of sufficient moisture in the soil and favorable temperature for germination, farmers may go for sowing of late sown wheat varieties. Recommended late sown wheat varieties are <i>PBW-752</i> , <i>DBW-173</i> , <i>WH-1124</i> , <i>DBW-90</i> , <i>HD-3059</i> .
10-12-2021	Konkan	Due to rainfall and low temperature, there is possibility for anthracnose disease in mango vegetative flush and inflorescence. To protect, it is advised to spray Azoxystrobin 23% SC @ 7 ml per 10 litres of water.
	Kerala	If there is no rainfall in cabbage and cauliflower growing areas, irrigation is advised at one day interval up to the formation of head and curd.
	Madhya Maharashtra	For the management of flower drop in pigeon pea, spraying of Planofix @ 50 ml in 200 litres of water is advised.
	Gujarat	For the management of thrips in onion, it is advised to spray Phosphamidon 5 ml or Dimethoate 15 ml or Methyl-o-Demeton 15 ml in 15 litres of water at 15 days interval.
17-12-2021	Uttarakhand	In view of prevailing dry weather and occurrence of frost, farmers are advised to provide light irrigation to all crops.
	Vidarbha	Application of organic mulches in fruit crops tree basins is advised for thermal insulation to reduce

17-12-2021		cooling of soil surface during cold weather period.
	Chhattisgarh	In the extreme cold condition, there is a chance of infestation of yellow vein mosaic in vegetable crops. Therefore, farmers are advised to go for spraying of systemic fungicides.
	Himachal Pradesh	Under prevailing weather condition, suitable varieties of cauliflower, capsicum and tomato should be transplanted in polyhouse.
	West Bengal	For the management of leaf spot, leaf blight and root rot in mustard, it is advised to spray Carbendazim @1 g/litre water and Tebuconazole 1.5 ml per litre of water.
24-12-2021	South Interior Karnataka	To protect the pulse grains from storage pests, it is advised to apply oils of castor/ linseed/pongamia/neem oil @ 3-5 ml per kg of grains.
	Eastern Uttar Pradesh	Better pulverization should be made for conservation of soil moisture followed by planking for sowing of wheat.
	Rajasthan	Due to high relative humidity, incidence of blight may occur in tomato. If symptoms appear, it is advised to spray Carbendazim @ 1.0 g/litre of water or Dithane-M-45 @ 2.0 g / litre of water.
	West Uttar Pradesh	Under prevailing weather condition, it is advised for sowing of late sown wheat varieties under irrigated condition. Recommended late sown varieties are <i>HUW-234, K-7903, UP-2338, K9162, K-9533, HD-2643, HP-1744, NW-1014, K-8020, UP-2425, NW-2036, DBW-14, K-9423, PBW-524 NW-1076</i> and <i>HUW-510</i> .
31-12-2021	Madhya Pradesh	Farmers are advised to protect vegetables and pulses from frost due to lowering of night temperature and apply light and frequent irrigation / sprinkler irrigation in the evening hours.
	Jharkhand	To avoid the adverse effect of low temperature on various crops/vegetables, it is advised to maintain the soil moisture in the field and irrigate them at a regular interval and smoking around the field also helps to maintain the temperature.

	Odisha	Because of low temperature, it is advised to apply light irrigation in paddy nursery area during evening time to maintain the soil temperature favourable for seedling growth. In severe cold affected areas use polythene cover at night-time.
	Bihar	Under prevailing weather condition, sowing of late varieties of wheat crop is advised. Recommended varieties are <i>PBW-373</i> , <i>HD-2285</i> , <i>HW-2045</i> , <i>HUW-234</i> , <i>WR-544</i> , <i>DBW-14</i> , <i>HD2643</i> , <i>HD-2967</i> and <i>NW-2036</i> are recommended for North Bihar region.