



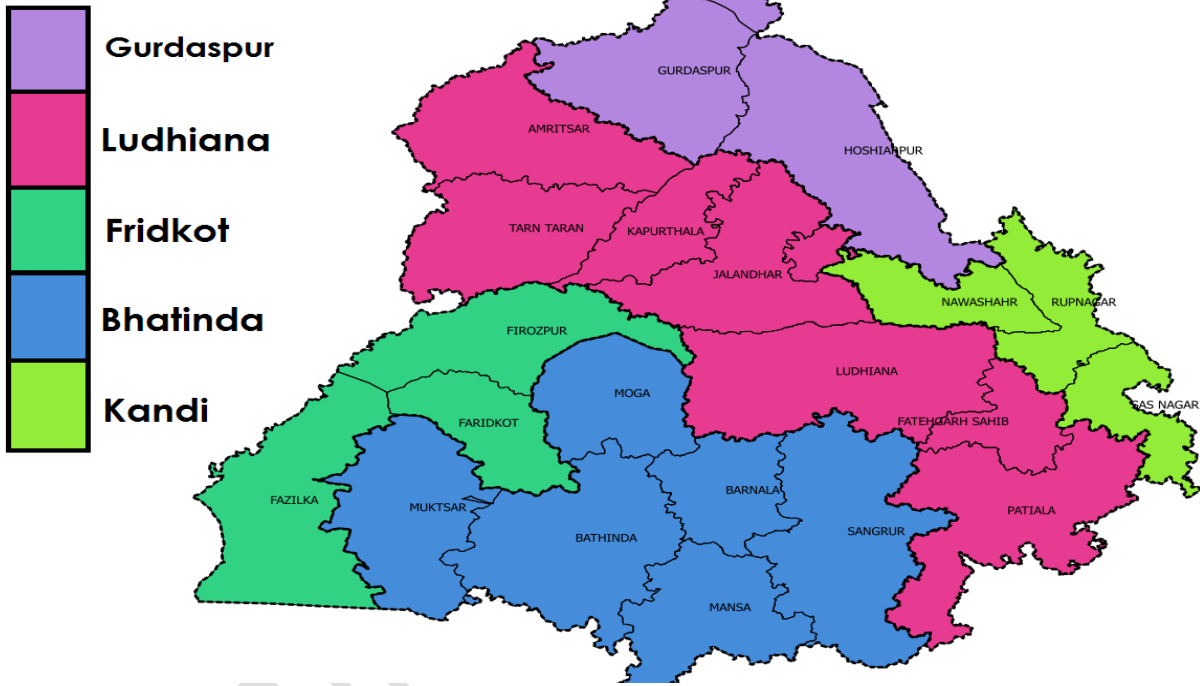
Agromet Advisory Bulletin for the State of Punjab

Bulletin No. 97/2023

Issued on 05.12.2023

Part A: Realized and forecast weather

Agro Met Field Unit Punjab



Summary of past weather over the State during (01.12.2023 to 04.12.2023):-

Light rainfall occurred at isolated places on 04th. Weather remained dry during the remaining period in the state.

Mean Maximum Temperatures varied between 23-25°C, which were 00-01°C below normal in the state.

Mean Minimum Temperatures varied between 09-11°C which were 02-03°C above normal in the state.

Chief amounts of rainfall (in cms):-



04.12.2023: Nangal (dist Rupnagar) 1

DATE	Lowest Minimum Temperature
01.12.2023	8.3°C at Adampur (IAF)
02.12.2023	8.2°C at Faridkot (AMFU)
03.12.2023	8.5°C at Faridkot (AMFU)
04.12.2023	8.4°C at Adampur (IAF)

Current synoptic condition and weather forecast (Based on 0300 UTC observations) valid up to 0830 Hrs of 08.12.2023:-

Maximum Temperature Forecast	
PUNJAB	➤ No large change in minimum temperatures in the state.

RAINFALL FORECAST FOR PUNJAB STATE FOR NEXT 03 DAYS			
	05.12.2023	06.12.2023	07.12.2023
MAJHA	DRY	DRY	DRY
DOABA	DRY	DRY	DRY
WEST MALWA	DRY	DRY	DRY
EAST MALWA	DRY	DRY	DRY
WEATHER WARNING FOR PUNJAB STATE FOR NEXT 03DAYS			
	05.12.2023	06.12.2023	07.12.2023
MAJHA	DENSE FOG	NIL	NIL
DOABA	DENSE FOG	NIL	NIL
WEST MALWA	DENSE FOG	NIL	NIL
EAST MALWA	DENSE FOG	NIL	NIL

क्षेत्र	माझा / MAJHA	ज़िले: पठानकोट, गुरदासपुर, अमृतसर, तरन तारण
	दोआबा / DOABA	ज़िले: होशिआरपुर, शहीद भागर सिंह नगर (नवांशहर), कपूरथला, जालंधर
	पश्चिम मालवा / W- MALWA	ज़िले: फिरोजपुर, फाजिल्का, फरीदकोट, मूक्तसर, मोगा, बठिंडा
	पूर्व मालवा / E-MALWA	ज़िले: लुधियाना, बरनाला, मानसा, संगरूर, मलेरकोटला, फतेहगढ़ साहिब, रूपनगर, पटिआला, साहिबज़ादा अजित सिंह नगर (मोहाली)

Note: Forecast for any day is valid from 0830 hours IST of day till 0830 hours IST of next day





WARNING	PROBABILISTIC FORECAST		SPATIAL		RAINFALL INTENSITY	
WARNING (TAKE ACTION)	Terms	Probability of Occurrence	DRY	No Rainfall	Light	2.5-15.5 mm
ALERT (BE PREPARED)	Unlikely	No Rainfall	ISOLATED	1-25%	Moderate	15.6-64.4 mm
WATCH (BE UPDATED)	Likely	1-25%	FEW	26-50%	Heavy	64.5-115.5 mm
NO WARNING (NO ACTION)	Very Likely	26-50%	MANY	51-75%	Very Heavy	115.6-204.4 mm
	Most Likely	51-75%	MOST	76-100%	Extremely Heavy	≥204.5 mm

Part- B

CROP INFORMATION AND AGROMET ADVISORIES

Stages of the major Kharif /Rabi crop

(Crop stages and state as collected from AMFUs and State Department of Agriculture, Punjab)

Name of crop	Stage
 <p>Wheat</p>	Sowing
 <p>Vegetable (Tomato, Brinjal, Bitter Gourd, Bottle Gourd, Cucumber)</p>	Sowing/Transplanting
 <p>Sugarcane</p>	Grand growth stage
 <p>Mustard</p>	Sowing

General Agromet Advisory

- Farmers are advised to sow rabi season crops during coming days.
- Farmers are advised to complete the sowing of wheat as soon as possible.

Crop Advisories and Plant Protection

WHEAT:-

- Farmers are advised to start sowing of wheat varieties PBW 826, PBW 869, PBW 824, PBW 803, Sunehri (PBW 766), PBW 1 Chapati, DBW 222, DBW 187, HD 3226, Unnat PBW 343, Unnat PBW 550, PBW 1 Zn, PBW 725, PBW 677, HD 3086, WH 1105, HD 2967 and durum wheat WHD 943 and PDW 291 under irrigated conditions.
- Treat 40 Kg seed with Raxil easy/ orius @13 ml (dissolve in 400 ml of water) or Tebuseed or Seedex or Exzole @ 40 g Or vitavax power @120g or vitavax @ 80g.
- In termite infested fields, treat the seed with 1 g Cruiser 70 WS or 2 ml Neonix 20 FS or 4 ml
- Dursban/Ruban/Durmet 20 EC per kg seed and dry in shade. Seed treated with Neonix also controls smuts of wheat.
- Prefer to grow yellow rust resistant varieties like PBW 725, Unnat PBW 550, PBW 752 and PBW 660 in these areas.

MUSTARD:-

- Raya and African sarson should be sown between mid October to mid November.
- Farmers can start sowing of Raya varieties RCH 1, PHR 126, Giriraj, RLC 3, PBR 357, PBR 91, PBR

97 and African sarson PC 6.

- Under late sowing, transplanting of gobhi sarson is more profitable than direct sowing.
- Use 60 days old seedlings of gobhi sarson (GSL-1) but for canola gobhi sarson use 30 days old seedlings. To early sown raya, apply 45 kg urea per acre with first irrigation and 75 kg single super phosphate at the time of sowing but in rainfed conditions, apply 35 kg urea and 50 kg single superphosphate per acre by drilling at the time of sowing.
- Raya Mustard Thinning is done three weeks after sowing to maintain plant to plant distance 10 to 15 cm.

VEGETABLES:-

- It is the time for transplanting of late season varieties of cauliflower. It is best time for sowing of spinach, fenugreek, coriander, radish, turnip, garlic and main season varieties of pea i.e. Punjab 89 and Mithi Phali.
- This time is accurate for sowing of nursery of tomato, brinjal, chilli and capsicum for early and higher yield.
- Sowing of nursery of onion should be done @ 4 to 5 kg seed to raise seedlings for transplanting in an acre.

FRUITS:-

- Withhold the irrigation during these days in deciduous fruit orchards like pear, peach, plum and grapes so that the trees may enter dormancy and become sufficiently hard to withstand cool weather.
- To protect the young fruit plants from upcoming winters, prepare the thatches or kullies of sarkanda or farm waste materials on the plants during late November. Care should be taken that the South-West side should be left open to allow sufficient sunlight.
- Powdery mildew in ber can be managed with spray of wettable sulphur @ 2.5 g per litre of water and black spot disease in ber can be managed with spray of Bordeaux mixture (2:2:250) during this month.
- For weed suppression, to reduce fruit drop and for better fruit yield, apply at least 10 cm thick layer of paddy straw mulch (5.0 ton per acre) after application of second split of urea in ber orchards.
- Regularly remove the suckers arising from the rootstock portion of the newly planted fruit plants and these plants should be supported with sticks to keep them erect post rainy season.
- For management of canker in citrus, spray streptomycin 50 g + 25 g copper sulphate in 500 litres of water per acre or Bordeaux mixture (2:2:250) during this month.
- The incidence of mango malformation can be reduced by removing old malformed panicles and shoots followed by spray of NAA (Naphthalene acetic acid) @ 100 in 500 litres of water per acre. Dissolve NAA in 200 ml of alcohol first.

SUGARCANE:-

- Apply irrigation as per requirement.
- To control sugarcane stalk borer, Staple 40 Tricho-cards (5 cm x 2.5 cm) hard paper piece glued with 7 days old eggs of *Corcyra cephalonica* parasitized by *Trichogramma chilonis* to the under-sides of sugarcane leaves from July to October at 10 days interval each card having approximately 500 parasitized eggs and be spread uniformly at 40 spots per acre.
- Do not ratoon a heavily infested crop.
- Plough the affected fields, collect and destroy the stumps.

ANIMAL HUSBANDARY:-

- Animals should be protected from cold weather in winter because low temperature is not only harmful for health of animals but also impacts the milk production in animals.
- In winter, animals must be allowed to sit in sunlight and during day time, windows of animal sheds should be opened to allow proper passage of air which will also expel excess of moisture from the sheds.
- Animals should be provided with bedding and shed floor need to be kept clean and dry.
- More quantity of daily ration for feeding animals is also must in winter to fight cold and prevent disease.

- Energy rich feed ingredients like grains must be added in compounded feeds to be given to animals in winter.
- Anti - insecticidal sprays should be regularly carried used to protect animals from diseases.
- Goats and sheep need to be vaccinated for PPR every three years.

**State Agro Meteorological Centre
Meteorological Centre, Chandigarh**

भारत मौसम विज्ञान विभाग