

Advisory for DD Kisan dated 01.01.19
(Agromet Advisories mentioned in the inputs are prepared
by different Agromet Field Units in the country)

Significant Weather Features

- An active western disturbance is very likely to cause fairly widespread to widespread rain/snow over western Himalayan region during next 48 hours. Isolated rainfall is also likely over Punjab & northern parts of Haryana during next 24 hours. Likely cloud cover and enhanced humidity could lead to further gradual increase in night minimum temperatures over parts of northwest India, thereby reducing the severity of cold wave conditions during next 24 hours. However, dense fog conditions are likely to occur during late night to morning hours over these regions, especially on 2nd & 3rd January.
- Another active western disturbance is likely to cause widespread rain/snow with isolated heavy falls over western Himalayan region and scattered to fairly widespread rainfall with isolated hailstorms over parts of Punjab and Haryana, Chandigarh & Delhi during 4th & 5th Jan.
- The severity of cold wave conditions have also reduced over parts of central and adjoining peninsular India and east India at present. However cold wave conditions at isolated pockets are likely to continue over these regions during next 2-3 days.
- A low pressure system is likely to emerge into Andaman Sea around 5th January. Squally winds and rough seas are likely over Andaman Sea and neighboring areas on 4th & 5th January.
- Dense to very dense fog observed at a few places over Punjab and at isolated places over Haryana at 0830 hours IST of today. Visibility:- Ambala-25 M; Amritsar, Ludhiana & Patiala-50 M each.

Realised Rainfall

(From 0830 hours IST of yesterday to 0830 hours IST of today):

- Light rain/thundershowers occurred at isolated places over Tamilnadu and Andaman & Nicobar Islands.

5 Day Rainfall Forecast (Mid-day) 1st January 2019

Met-Sub-Division	01-Jan Today	02Jan Wed	03Jan Thu	04Jan Fri	05Jan Sat
1. Andaman & Nicobar Islands	ISOL	ISOL	ISOL	ISOL	SCT
2. Arunachal Pradesh	DRY	ISOL	SCT	ISOL	DRY
3. Assam & Meghalaya	DRY	DRY	DRY	DRY	DRY
4. N. M. M. & T.	DRY	DRY	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	DRY	ISOL	ISOL	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	DRY	DRY	DRY	DRY	DRY
8. Jharkhand	DRY	DRY	DRY	DRY	DRY
9. Bihar	DRY	DRY	DRY	DRY	DRY
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	ISOL
12. Uttarakhand	ISOL	SCT	DRY	SCT	FWS
13. Haryana, Chd & Delhi	ISOL	DRY	DRY	ISOL	SCT
14. Punjab	ISOL	DRY	DRY	ISOL	FWS
15. Himachal Pradesh	FWS	FWS	DRY	WS	WS
16. Jammu & Kashmir	WS	FWS	DRY	WS	WS
17. West Rajsthan	ISOL	DRY	DRY	DRY	ISOL
18. East Rajsthan	DRY	DRY	DRY	DRY	ISOL
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathwada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	DRY	DRY	DRY	DRY	DRY
29. Telangana	DRY	DRY	DRY	DRY	DRY
30. Rayalaseema	DRY	DRY	DRY	DRY	DRY
31. Tamilnadu & Puducherry	DRY	DRY	DRY	DRY	DRY
32. Coastal Karnataka	DRY	DRY	DRY	DRY	DRY
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	DRY	DRY	DRY	DRY	DRY
35. Kerala	DRY	DRY	DRY	DRY	DRY
36. Lakshadweep	DRY	DRY	DRY	DRY	DRY

% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespred (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

Weather Warning

- **01 January (Day 1):** Cold wave conditions in some parts very likely over Madhya Maharashtra & Telangana and at isolated pockets over Punjab, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Odisha, Marathwada and North Interior Karnataka. Ground frost conditions very likely at isolated pockets over Uttar Pradesh.

- **02 January (Day 2):** Cold wave conditions at isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha, Madhya Maharashtra and Telangana. Ground frost conditions very likely at isolated pockets over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Dense Fog very likely at many places over Punjab and at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Rajasthan.
- **03 January (Day 3):** Cold wave conditions at isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Rajasthan. Ground frost conditions very likely at isolated pockets over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Dense Fog very likely at many places over Punjab and at isolated places over Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- **04 January (Day 4):** Heavy snowfall likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm likely at isolated places over Himachal Pradesh, Uttarakhand and Punjab. Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph likely over Andaman Sea and along & off south Myanmar and Thailand coasts. Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.
- **05 January (Day 5):** Heavy snowfall likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Hailstorm likely at isolated places over Himachal Pradesh, Uttarakhand and Haryana, Chandigarh & Delhi. Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph likely over Andaman Sea a& neighbourhood Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.

Advisory for Fishermen

- Squally winds speed reaching 40-50 Kmph gusting to 60 Kmph likely over Andaman Sea and along & off south Myanmar and Thailand coasts on 4th, over Andaman Sea & neighbourhood on 5th January. Sea condition is likely to be rough to very rough over these areas. Fishermen are advised not to venture into these areas.

Salient Advisories

Cold wave conditions and Advisory

Realized

- Cold Wave conditions occurred at many parts with severe cold wave at isolated pockets over Punjab; Cold wave conditions in some parts over Haryana, Chandigarh & Delhi, Madhya Maharashtra and East Madhya Pradesh and at isolated pockets over East Rajasthan, Uttar Pradesh, Bihar, Chhattisgarh, Marathwada, Telangana, North Interior Karnataka and Vidarbha.

Ground Frost Conditions

- Ground frost occurred at isolated pockets over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan and Madhya Pradesh.

Warning

- Cold wave conditions in some parts very likely over Madhya Maharashtra & Telangana on 1st, at isolated pockets over Punjab and Uttar Pradesh from 1st to 3rd, over East Madhya Pradesh and Vidarbha on 1st and 2nd, over Chhattisgarh, Bihar, Odisha, Marathwada and North Interior Karnataka on 1st, over Haryana, Chandigarh & Delhi on 2nd and 3rd, over Madhya Maharashtra and Telangana on 2nd and over Rajasthan on 3rd January.
- Ground frost conditions very likely at isolated pockets over Uttar Pradesh from 1st to 3rd, over Punjab, Haryana, Chandigarh & Delhi on 2nd and 3rd January.

Advisory

- In view of expected cold wave conditions/ground frost in above regions, apply light and frequent irrigation/sprinkler irrigation in the evening to protect the crops from cold injury. To protect young fruit plants from cold winds, cover young fruit plants with straw/polythene sheets/gunny bags. To overcome cold injury and for better nursery growth in rice, adopt the following measures: cover the nursery beds with polythene sheet during night and remove in the morning. Irrigate the nursery beds every day in the evening and let the water out in the morning.

Fog and Advisories

Realized

- Dense to very dense fog observed at a few places over Punjab and at isolated places over Haryana in the morning hours of today.

Forecast

- Shallow to moderate fog very likely at isolated places in morning hours over northern plains and northeast India during next 4-5 days.

Warning

- Dense Fog very likely at many places over Punjab and at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh on 2nd and 3rd and over Rajasthan on 2nd January.

Advisory

- Monitor the tomato, potato and onion crops for early/late blight disease. If symptoms are noticed, undertake appropriate plant protection measures.

Hailstorm and Advisory

Warning

- Hailstorm likely at isolated places over Himachal Pradesh, Uttarakhand and Punjab on 4th January.

Advisory

- Use hail net for orchard crops to protect from mechanical damage. Provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds and keep cattle indoor.

Rain/snowfall and Advisory

Forecast

- Rain/snowfall likely at most/many places over Jammu & Kashmir and Himachal Pradesh on 1st,

2nd, 4th and 5th, at many places over Uttarakhand on 5th, rain/thundershowers likely at many places over Punjab on 5th January.

Warning

- Heavy snowfall likely at isolated places over Jammu & Kashmir and Himachal Pradesh on 5th January.

Advisory

- Avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops.

State-wise Advisories

Assam Meghalaya

- Continue transplanting 5-6 leaf stage Boro rice seedlings in the main field. Spray Chlorpyrifos (1g/litre of water) for moderate infestation of thrips, leaf & plant hoppers in the boro rice seedlings.
- Apply one light irrigation to rapeseed & mustard crops which are at flowering/siliquea formation stage.

Tripura

- Provide light irrigation during afternoon to protect young Boro paddy seedlings from cold injury.
- Provide light irrigation to rabi crops like toria, sesame, lentil, winter vegetables and potato.

Jammu & Kashmir

- In the Sub Tropical Zone, continue sowing very late sown (irrigated/rainfed) wheat crop. As there is a chance of rainfall, postpone irrigation to the early/normal sown wheat, chick pea, lentil, mustard as well as vegetables and floriculture crops.

Uttarakhand

- In Sub-Humid Sub-Tropic Zone, complete the sowing of wheat after harvesting of ratoon crop of sugarcane at the earliest.
- Pick the mature fruits in standing crop of vegetables.

Himachal Pradesh

- In High Hill Temperate Dry Zone, poly-house should be kept closed to prevent the crops from cold injury.

Punjab & Delhi

- In Delhi, apply light irrigation at evening time to protect the crops from probable frost. Transplant healthy seedlings of late varieties of cabbage, cauliflower, knolkhol, etc. on ridges.
- In Punjab, due to cold to severe cold wave /ground frost prediction in next 3-4 days, farmers are advised to protect wheat, vegetables and fruit crops by providing light irrigation, if not applied. Complete transplanting of tomato seedlings during this period. Provide polythene sheet/Sarkanda/Kahi/ rice straw to save the plants from cold.

Rajasthan

- Frost can harm the crops like mustard, cumin, gram, vegetables etc. therefore, try to protect them by giving light irrigation. Try to protect the newly planted (in rainy season) delicate horticultural plants by covering with crop residues or munjha thatches and frequent light irrigations. Also, in timely sown wheat crop, provide irrigation to standing crop at 55 days after sowing.

Gujarat

- In Saurashtra & Kutch, continue picking of matured cotton bolls and matured clusters of castor. Take up harvesting of matured pigeon pea. For the control of fruit fly in brinjal and tomato crops, spray Acetemapid @ 5 ml per 10 litres of water.

Madhya Pradesh

- In West Madhya Pradesh, wheat crop is at tillering stage. Apply second irrigation on this stage of crop. In the wheat crop, there is the possibility of the outbreak of aphids. For control, Chloropyriphos 1.5% dust or methyl parathia 2% @ 25 kg per hectare continue sowing of late varieties of wheat.
- Apply irrigation in vegetables, gram and mustard.

West Bengal

- In Sub-Himalayan West Bengal, continue land preparation/sowing for mustard. Undertake nursery preparation for Boro rice.
- In Gangetic West Bengal, continue nursery sowing of Boro rice.

Maharashtra

- In Konkan region, in rabi rice, maintain water level 2-3 cm for first 8-10 days and then increase the level up to 5 cm. Apply light irrigation to groundnut three days after sowing and also undertake gap filling.
- In Madhya Maharashtra region, apply irrigation to standing crops, vegetables and orchards as per requirement during evening hours.
- In Marathwada, continue picking of cotton. Remaining plant parts should be collected and destroyed properly after final picking. Continue harvesting and threshing of matured pigeon pea crop.
- In East Vidarbha, complete nursery sowing of summer rice. Undertake transplanting of early sown summer rice.

Karnataka

- In South Interior Karnataka, continue sowing of pulses like black gram, green gram and also the green manure crop sun hemp to utilize residue moisture after harvest of the rice.
- In North Interior Karnataka, to improve yield, carry out nipping and spraying of NAA @ 20 ppm in 35-40 days old chickpea crops

Kerala

- In the Problem Area Zone, to prevent rice bug, keep the bunds in the rice field free of weeds and grasses. If the bug is seen in large numbers, apply Malathion @ 2 ml/ litre of water.

Tamil Nadu

- Due to the prevailing weather condition, incidence of *Helicoverpa armigera* is found in Chick pea

crop. To control this, use Pheromone traps for *Helicoverpa armigera* @ 12 nos./hectare and set up bird perches in the field @ 50 nos./hectare.