

Advisory for DD Kisan dated 28.12.18
(Agromet Advisories mentioned in the inputs are
prepared by different Agromet Field
Units in the country)

Significant Weather Features

- Cold wave to Severe cold wave conditions are prevailing over major parts of Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, Jammu & Kashmir, Himachal Pradesh, Uttarakhand and West Uttar Pradesh and at isolated pockets over Saurashtra & Kutch, west Madhya Pradesh, Jharkhand and Bihar. This situation is very likely to continue over these regions for two more days, however with less severity outside Punjab and north Rajasthan. Under the likely influence of a western disturbance from 1st January 2019, the wind pattern could change, thereby bringing in respite from severe Cold wave conditions over northwest India during the first week of January.

Realised Rainfall

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

Rainfall occurred at a few places over Lakshadweep and at isolated places over Arunachal Pradesh, Assam & Meghalaya, Sikkim, Coastal Andhra Pradesh, Telengana, Tamilnadu, South Interior Karnataka and Kerala; Isolated snowfall occurred over Himachal Pradesh.

5 Day Rainfall Forecast (Mid-day) 28th December 2018

Met-Sub-Division	28-Dec Today	29Dec Sat	30Dec Sun	31Dec Mon	01Jan Tue
1. Andaman & Nicobar Islands	DRY	DRY	DRY	DRY	ISOL
2. Arunachal Pradesh	SCT	ISOL	DRY	DRY	DRY
3. Assam & Meghalaya	ISOL	DRY	DRY	DRY	DRY
4. N. M. M. & T.	ISOL	DRY	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	ISOL	DRY	DRY	DRY	DRY
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	DRY
7. Odisha	ISOL	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	DRY
12. Uttarakhand	DRY	DRY	DRY	DRY	ISOL
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	ISOL
15. Himachal Pradesh	DRY	DRY	ISOL	DRY	SCT
16. Jammu & Kashmir	DRY	ISOL	ISOL	DRY	FWS
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
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	ISOL	DRY	DRY	DRY	DRY
29. Telangana	DRY	DRY	DRY	DRY	DRY
30. Rayalaseema	DRY	DRY	DRY	DRY	DRY
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	DRY	DRY
32. Coastal Karnataka	DRY	DRY	DRY	DRY	DRY
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	ISOL	ISOL	DRY	DRY	DRY
35. Kerala	ISOL	ISOL	ISOL	DRY	DRY
36. Lakshadweep	ISOL	ISOL	ISOL	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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

Weather Warning

- **28 December (Day 1):** Cold wave conditions at many places with Severe cold wave conditions at a few places very likely over Punjab and north Rajasthan and Cold wave conditions at a few places with Severe Cold wave conditions at isolated places over West Madhya Pradesh Himachal Pradesh and Uttarakhand; Cold wave conditions at many places over Haryana, Chandigarh & Delhi and Cold Wave conditions at isolated places over north Madhya Maharashtra, Vidarbha, East Madhya Pradesh, Jammu & Kashmir, Gangetic West Bengal, Jharkhand, Bihar, West Uttar Pradesh and Gujarat State. Ground frost conditions at isolated places very likely over West Madhya Pradesh, Punjab, north Rajasthan, Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Dense Fog very likely at isolated places over Punjab and Sub- Himalayan West Bengal. Thunderstorm accompanied with hailstorm likely at isolated places over Meghalaya.
- **29 December (Day 2):** Cold wave conditions at many places with Severe cold wave conditions at a few places very likely over Punjab and north Rajasthan; Cold wave conditions at many places over Haryana, Chandigarh & Delhi and Cold Wave conditions at isolated places over Vidarbha, Madhya Pradesh, north Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand, Bihar, Himachal Pradesh and Uttarakhand, West Uttar Pradesh and Gujarat State. Ground frost conditions at isolated places very likely over Punjab, north Rajasthan, Himachal Pradesh, and Uttarakhand. Dense Fog likely at isolated places over Punjab, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Sub-Himalayan West Bengal.
- **30 December (Day 3):** Cold wave conditions at many places with Severe cold wave conditions at a few places very likely over Punjab and north Rajasthan; Cold wave conditions at many places over Haryana, Chandigarh & Delhi and Cold Wave conditions at isolated places over Madhya Pradesh, north Chhattisgarh, Odisha, Gangetic West Bengal, Jharkhand, Bihar and West Uttar Pradesh. Ground frost conditions at isolated places very likely over Punjab and north Rajasthan. Dense Fog likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.
- **31 December (Day 4):** Cold wave conditions at a isolated places likely Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Madhya Pradesh, Odisha, Gangetic West Bengal, Bihar and Jharkhand. Dense Fog likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Rajasthan, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **01 January (Day 5):** Dense Fog likely at isolated places over Rajasthan.

Salient Advisories

Cold wave conditions and Advisory

Realized

Cold wave to Severe Cold Wave conditions observed over Punjab, Himachal Pradesh, Uttarakhand and Rajasthan and Cold wave conditions occurred over West Madhya Pradesh, Saurashtra and Kutch, Haryana, Chandigarh and Delhi, West Uttar Pradesh, Jammu & Kashmir, West Uttar Pradesh, Bihar and Jharkhand

Ground Frost Conditions

Ground Frost Conditions occurred at isolated places over West Madhya Pradesh, North Rajasthan, Punjab, Jammu & Kashmir, Himachal Pradesh and Uttarakhand.

Forecast

Cold wave conditions at many places with Severe cold wave conditions at a few places very likely over Punjab and north Rajasthan from 28th to 30th and Cold wave conditions at a few places with Severe Cold wave conditions at isolated places over West Madhya Pradesh Himachal Pradesh and Uttarakhand on 28th ; Cold wave conditions at many places over Haryana, Chandigarh & Delhi from 28th to 30th and Cold Wave conditions at isolated places over Bihar, Jharkhand, Gangetic West Bengal, West Uttar Pradesh from 28th to 30th , Vidarbha on 28th and 29th, North Madhya Maharashtra, East Madhya Pradesh Gujarat and Jammu & Kashmir on 28th , Madhya Pradesh, North Chhattisgarh and Odisha on 29th and 30th and Himachal Pradesh and Uttarkhand on 29th.

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.

Fog and Advisories

Realized

Dense fog observed at isolated places over Punjab and Chhattisgarh and moderate fog observed at isolated places over Haryana, Delhi and West Uttar Pradesh in the morning hours of today.

Forecast

- Shallow to moderate fog very likely at isolated places in morning hours over

northern plains and northeastern states during next 3-4 days.

Warning

Dense Fog very likely at isolated places over Punjab from 28th-31st and Sub-Himalayan West Bengal on 28th and 29th ; over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 29th -31st; over Haryana, Chandigarh & Delhi, West Uttar Pradesh on 30th & 31st , over Rajasthan, on 31st and on 1st January 2019.

Advisory

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

State-wise Advisories

Assam

- Due to low temperature, there is chance of attack of saw fly and aphid in the field of rapeseed–mustard at vegetative stage. Spray Chloropyrifos 20 EC or Dimethoate 30 EC or Ragor @ 2 ml per litre of water. Also to control the late blight disease in potato field spray Mancozeb @ 2.5g/litre of water or Zineb @ 25 g per 10 litre of water.

Tripura:

- Continue nursery sowing of Boro rice. Complete sowing of rabi legumes like toria, sesame, lentil and planting of potato

West Bengal

- Weather is congenial for incidence of leaf blight in mustard crop, spray Copper Oxychloride @ 3-4g / liter of water. For management of potato insect/pests, spray Neem oil 1% @ 3ml + Sandovit @0.5ml per litre of water at evening hours at 7 days interval.
- In Sub-Himalayan West Bengal, undertake planting of potato tuber. Continue land preparation/sowing for mustard. Start preparing Boro rice nursery

Madhya Pradesh and Chhattisgarh

- Apply irrigation in gram, lentil, mustard, vegetables and wheat (at CRI stage) to protect from low temperatures. Continue transplanting of onion. Continue earthing up and application of nitrogenous fertilizer followed by irrigation in potato.

Jammu & Kashmir

- In Valley Temperate Zone, provide drainage channels in the fields wherever there is possibility of water accumulation during winter months.

Uttarakhand

- In Hill Zone, continue transplanting of onion. Carry out mulching in cole crops in valley region to conserve soil moisture. Apply urea as foliar spray on leafy vegetables.

Himachal Pradesh

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

Punjab, Haryana & Delhi

- In Haryana, continue intercultural operations in vegetables and mustard followed by light irrigation. Apply irrigation in wheat and barley. Continue transplanting of matured seedlings of tomato, cauliflower, & cabbage in prepared field.
- In Delhi, apply light irrigation at evening time to protect the crops from probable frost. Continue planting of winter sugarcane at optimum soil moisture for better seed germination.
- In Punjab, existing low temperatures continuously in past two weeks may start white rust infection in mustard, spray Dithane-M-45 @ 2 gr/litre of water or Chlorothalonil 75 WP @ 1 g/litre of water. For control of late blight of potato, spray Indofil M-45/Markzeb/Kavach @ 500-700 g in 250-350 litres of water per acre.

Uttar Pradesh

- In East Uttar Pradesh, due to prevailing foggy weather condition, there is chances of attack of late blight in potato crop, for control, spray IndofilM-45/Kavach/Antracol @ 500-700 g per acre or Blitox @ 750-1000 g per acre in 250-350 litres of water per acre at weekly interval 2-3 times

Rajasthan

- Frost can harm the crops like mustard, cumin, gram, vegetables etc. therefore, try to protect them by giving light irrigation, smoking the field by burning the field waste and crop residue. If possible spray of commercially used sulfuric acid @ 0.1% along with water. 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 2nd irrigation to standing crop at 40 - 45 days after sowing and also provide 2nd irrigation to the barley at 65-70 days after sowing.

Gujarat

- In North Gujarat, under cold and dry weather condition, apply irrigation in potato, wheat (at CRI stage), mustard, lemon and vegetable crops as per need. Carry out the intercultural operations in cumin, potato, castor, mustard, amaranth and fennel crops. Continue sowing of water melon. Continue picking of matured cotton bolls
- In Saurashtra & Kutch, undertake harvesting of pigeon pea and picking of matured clusters of castor crop

Kerala

- In Southern Zone, weather conditions may favour the incidence of leaf folder in paddy, spray Flubendiamide (Takumi 20 WDG) @ 2.5ml per 10 L of water to control the incidence

Andhra Pradesh

- In Rayalaseema undertake sowing of Gingelly till January 15th and with- hold irrigation in mango orchards. The prevailing night temperatures and with- holding of irrigation will help in initiating flowering. If flowering delayed spray KNO₃ or Multi K @ 10g + urea @ 5g per liter water.

Telangana:

- Prevailing low temperatures may cause cold injury in rice nurseries in the state. To overcome cold injury and for better nursery growth, Cover the nursery beds with polythene sheet during night and remove in the morning, irrigate the nursery bed every day in the evening and let out the water in the morning, apply 2 kg urea for 200 m² of nursery area at 10-15 days after sowing and apply Carbofuran 3G @ 1 kg/200 sq.m (5 cents) to rice nurseries one week before pulling nursery.

Karnataka

- In South Interior Karnataka, undertake 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.

Maharashtra

- In West Vidarbha, continue picking of cotton. Continue harvesting of matured pigeon pea.. As cold wave conditions is expected in next 48 hours, apply organic mulches in orchards.
- In East Vidarbha, Continue nursery sowing of *summer* rice. Undertake thinning operation in 15-20 days old mustard crop.