

Advisory for DD Kisan dated 19.01.18

(Agromet Advisories mentioned in the inputs are prepared by different Agromet Field Units in the country)

Significant Weather Features

- **Dense to very dense fog** observed at a few places over Bihar, East Uttar Pradesh, Tripura and at isolated places over Punjab, Haryana and Moderate fog at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal, Gangetic West Bengal and West Rajasthan.

Realised Rainfall

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

- At a few places over Andaman & Nicobar Islands and at isolated places over Arunachal Pradesh.

Minimum temperature

- **Minimum temperature departures as on 19.01.2018:**
- Minimum temperatures are appreciably below normal (3.1°C to 5.0°C) at many places over Gangetic West Bengal and Odisha; at a few places over Vidarbha, Chhattisgarh and Jharkhand and at isolated places over Tamil Nadu & Puducherry; below normal (1.6°C to 3.0°C) at a few places over Interior Karnataka.
- **The lowest minimum temperature of 3.4°C recorded at Amritsar (Punjab) in the plains of the country.**

Forecast:

- No significant change in minimum temperatures is likely over most parts of India during next 3 days.

Warning and advisory for fishermen

- Strong north north easterly winds speed reaching 45-55 kmph are likely to prevail over Comorin area, fishermen off south Tamil Nadu coast are advised to be cautious while venturing into the Sea over Comorin area during next 24 hours.

5 Day Rainfall Forecast (Mid-day) 19th January 2018

Met-Sub-Division	19-Jan Today	20Jan Sat	21Jan Sun	22Jan Mon	23Jan Tue
1. Andaman & Nicobar Islands	ISOL	ISOL	SCT	SCT	FWS
2. Arunachal Pradesh	ISOL	ISOL	DRY	DRY	DRY
3. Assam & Meghalaya	ISOL	DRY	DRY	DRY	DRY
4. N. M. M. & T.	DRY	DRY	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	DRY	DRY	DRY	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	ISOL
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	SCT
12. Uttarakhand	DRY	DRY	DRY	DRY	SCT
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	SCT
14. Punjab	DRY	DRY	DRY	DRY	SCT
15. Himachal Pradesh	DRY	DRY	DRY	DRY	ISOL
16. Jammu & Kashmir	ISOL	DRY	DRY	DRY	ISOL
17. West Rajasthan	DRY	DRY	DRY	ISOL	ISOL
18. East Rajasthan	DRY	DRY	DRY	DRY	ISOL
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	ISOL
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	ISOL	ISOL
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

Weather Warning

- **19 January (Day 1):** Dense to very dense fog very likely at many places over Bihar and Sub Himalayan West Bengal; at a few places over East Uttar Pradesh and at isolated places over Nagaland, Manipur, Mizoram & Tripura and dense fog at isolated places over Assam & Meghalaya. Cold Day to severe cold day conditions at a few places very likely over Bihar and Cold day at isolated places over East Uttar Pradesh.

Cold wave at Punjab, Uttarakhand, East Uttar Pradesh, Odisha and Bihar.

Ground frost conditions very likely at a few places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand and at isolated places over Punjab.

Strong north north easterly winds speed reaching 45-55 kmph are likely to prevail over Comorin area. Fishermen off south Tamil Nadu coast are advised to be cautious while venturing into the Sea over Comorin area.
- **20 January (Day 2):** Dense to very dense fog very likely at many places over Bihar and Sub Himalayan West Bengal; at a few places over East Uttar Pradesh; at isolated places over West Uttar

Pradesh and dense fog at isolated places over Punjab, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

Cold Day to severe cold day conditions at a few places very likely over Bihar.

Cold wave conditions very likely at isolated places over Punjab, Uttarakhand, East Uttar Pradesh, Odisha and Bihar.

Ground frost conditions very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Punjab.

- **21 January (Day 3):** Dense to very dense fog very likely at a few places over Bihar, Sub Himalayan West Bengal and East Uttar Pradesh: at isolated places over West Uttar Pradesh and dense fog at isolated places over Punjab, Haryana, Chandigarh & Delhi, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

Cold Day to severe cold day conditions at a few places very likely over Bihar.

Cold wave conditions very likely at isolated places Odisha and Bihar.

- **22 January (Day 4):** Dense to very dense fog likely at a few places over Bihar, Sub Himalayan West Bengal and East Uttar Pradesh and dense fog at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

Cold Day to severe cold day conditions at a few places likely over Bihar.

- **23 January (Day 5):** Hailstorm at isolated places likely over West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh, Punjab, Himachal Pradesh and Jammu & Division.

Dense to very dense fog likely at a few places over Bihar, Sub Himalayan West Bengal and East Uttar Pradesh and dense fog at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura.

Cold Day to severe cold day conditions at a few places very likely over Bihar.

Warning for Hailstorm & Advisory

- Hailstorm at isolated places likely over West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh, Punjab, Himachal Pradesh and Jammu Division on 23rd January, make arrangement for hailnet to protect orchard crops from hail.

Fog and Advisories

Realised:

- **Dense to very dense fog** observed at a few places over Bihar, East Uttar Pradesh, Tripura and at isolated places over Punjab, Haryana and Moderate fog at isolated places over Assam & Meghalaya, Sub Himalayan West Bengal, Gangetic West Bengal and West Rajasthan.

Forecast:

- **Shallow to moderate fog** during late night & morning hours very likely over parts of plains of northwest, eastern India and Coastal Andhra Pradesh during next 3 days.

Warning:

- Dense to very dense fog very likely at many places over Bihar and Sub Himalayan West Bengal during next 2 days and at a few places thereafter.

- Dense to very dense fog very likely at few places over East Uttar Pradesh during next 5 days.
- Dense fog at isolated places over Punjab, Haryana, Chandigarh & Delhi and west Uttar Pradesh on 20th and 21st January.
- Dense to very dense fog very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura during next 24 hours and dense fog at isolated places thereafter.
- Dense fog at isolated places over Assam & Meghalaya during next 5 days.

Advisory:

- As dense fog at many/at a few places very likely over East Uttar Pradesh, Bihar and Sub-Himalayan West Bengal and at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during the period, over West Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi on 20th and 21st January, monitor the standing crops for incidence and spread of pest diseases, potato, tomato and onion crops for early/late blight disease. If symptoms are noticed, undertake plant protection measures.
- In North East Alluvial Zone of Bihar, in the prevailing foggy weather, infection of blight may occur in potato. If symptoms appear then spray Carbendazim @ 1 g/litre of water or Dithane-M-45 @ 2 g/litre of water.
- In Undulating Plain Zone of Punjab, in prevailing weather, monitor wheat crop for incidence of yellow rust. If symptoms are noticed, spray Native @120g or @ Tilt 200ml per litre of water.

Advisory for matured crop

- As dry weather would prevail, undertake harvesting of matured toria in Jharkhand, pigeon pea in North Interior Karnataka, Interior Maharashtra and Odisha and Castor in south Saurashtra and North Gujarat Zone.

Cold wave & ground frost conditions and Advisories

Realised:

- Cold wave conditions observed at isolated places over Uttarakhand, Punjab, Bihar, Odisha and Gangetic West Bengal.

Warning:

- Cold wave conditions very likely at isolated places Odisha and Bihar during next 3 days and over Punjab, Uttarakhand and East Uttar Pradesh during next 2 days.
- Ground frost conditions very likely at a few places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand and at isolated places over Punjab during next 2 days.

Advisory:

- In view of expected cold wave/severe cold wave conditions in above regions, farmers are advised to apply light & frequent irrigation in standing rabi pulses & vegetables, in the evening/ night hours from frost / cold injury. Apply mulch with crop residue/trash/ polythene. To protect young fruit plants from chilly winds, cover young fruit plants with straw/polythene sheets/ gunny bags. Cover banana bunch by 6% perforated white plastic bag.

- As ground frost conditions very likely at a few/isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Punjab during next 48 hours, apply light and frequent irrigation in standing crops during evening hours and in cash crops, spray of 0.1 percent H₂SO₄ to protect from frost injury.
- In north Rajasthan, to protect sensitive crops like mustard, Rajmash, potato and gram from frost attack, spray dilute Sulphuric Acid @ 0.1% (1 litre H₂SO₄ in 1000 litre water) or thiourea @ 500 ppm (500 g thiourea in 1000 litre water) at flowering stage.
- Keep animals inside the sheds during night and provide dry bedding to protect them from cold. Increase protein level and minerals in the feed concentrate to keep the animals healthy to cope up with the cold condition. In Poultry, keep the chicks warm by providing artificial light in the poultry sheds.

Agromet Advisories for *rabi* crops from different AMFUs in the country

State-wise Advisories

Jammu & Kashmir

- In Intermediate Zone, continue light weeding and hoeing in vegetables followed by irrigation depending upon soil moisture conditions. Continue planting of new orchards of stone fruits (Peach, Plum & Apricot), almond, walnut etc.
- In Valley Temperate Zone, provide drainage channels in wheat, lentil, oat, pea fields wherever there is probability of water accumulation during winter month. Provide proper drainage in apple orchards. Continue mulching in vegetables to protect from frost.

Assam & Meghalaya, Arunachal Pradesh

- In Arunachal Pradesh, continue harvesting of matured crop of ginger/turmeric. Continue harvesting of matured citrus fruits. Apply light irrigation to cole crops.
- In Meghalaya, provide irrigation and mulching to cabbage, cauliflower and broccoli crops. Undertake nursery raising for tomato and capsicum crops.
- In Lower Brahmaputra Valley Zone of Assam, transplant rice seedlings of age about 30 days or 45 days (for hybrid varieties) with 5-6 leaves stage in the main field. Undertake sowing of foxtail millet and provide light irrigation after sowing as there is no forecast for rainfall.
- In the Upper Brahmaputra Valley Zone, apply irrigation to maintain 5±2 cm of standing water in the rice field. Undertake gap filling with available seedlings. Continue harvesting sugarcane crop. Carry out land preparation for okra crop.
- In the Barak Valley Zone of Assam, transplant Boro rice seedlings in the main field and maintain 5 cm stagnant water level in the boro paddy main field. Gap filling should be done within 7 to 10 days after transplanting Boro paddy.
- In the North Bank Plain Zone, continue transplanting seedlings of Boro rice varieties like Jyotiprasad, Bishnuprasad, Joymoti etc. in the main field.

Nagaland, Mizoram, Manipur and Tripura

- In Manipur, provide light irrigation to rabi maize. Raise nursery for late cole crops.
- In Mizoram, continue harvesting of matured kharif rice. Provide irrigation to maize, gram, soybean, and vegetable crops. Continue harvesting banana, khasi mandarin, acid lime, star fruit, plum and peach.
- In Tripura, continue transplanting of Boro rice. Apply light irrigation to cole crops and tomato.

- In Tripura, spray Cymoxanil+ Mancozeb or Metalaxyl+ Mancozeb @ 1.5 g per liter of water in the potato field at least twice at an interval of 15 days to control early blight.

Himachal Pradesh

- In High Hill Temperate Dry Zone, apply fertilizers and complete the preparation of beds in apple orchard before snowing.
- In Sub-Montane and Low Hill Tropical Zone, add mulch material in space between two rows of vegetables crops for conservation of soil moisture and maintaining the soil temperature
- In Solan Shimla, Bilaspur and Sirmour districts of Mid Hills Sub Humid Zone, continue transplanting of onion.

Punjab, Haryana & Delhi

- In Western Zone of Punjab, apply light irrigation in wheat, mustard, vegetables and fruit plants to protect from low temperature. Cover young fruit plants and vegetables with polythene sheet/ sarkanda/ kahi rice straw.
- In Western Plain Zone of Punjab, continue harvesting of sugarcane. Apply irrigation in mustard and vegetables to save from frost. Avoid sowing of sunflower till cold wave conditions persists.
- In Undulating Plain Zone of Punjab, apply light irrigation in wheat, sugarcane, oilseeds and vegetables to save from frost. Cover young fruit plants and nursery plants with thatches / sarkanda / plastic sheet to save from low night temperature.
- In Eastern Zone of Haryana, as there are chances of cold wave and frost at isolated places, apply light irrigation and cover young fruit plants with rice straw or thatches. Continue harvesting of matured sugarcane. Apply irrigation in wheat and undertake weeding.
- In Delhi, keeping in view of low minimum temperatures, farmers are advised to prepare seedling of early cucurbitaceous crops in small polythene bags in poly houses. Undertake transplanting of onion.
- In Undulating Plain Zone of Punjab, monitor the wheat crop for incidence of yellow rust. If symptoms are noticed, spray Native @ 120g or Tilt @ 200 ml per litre of water for control.

Uttar Pradesh

- In Eastern Plain Zone, continue intercultural operations in vegetables and apply light irrigation during evening hours to protect from cold injury.
- In Kanpur district of Central Plain Zone, undertake transplanting of onion.
- In Central Plain Zone, due to prevailing foggy weather condition, there are chances of attack of late blight in potato crop, for control, spray Indofil-M-45 / Kavach /Antracol @ 500-700 g per acre or Blitox @ 750-1000 g per acre in 250-350 litres of water.

Odisha

- In Western Undulating Zone, undertake transplanting of rice with 3 week old seedlings. Provide light and frequent irrigation to vegetable crops and rice nursery in view of low temperature. Continue harvesting of matured pods of pigeon pea.
- In North Eastern Coastal Plain Zone, complete sowing of rice nursery. As temperature will remain low, cover the nursery bed with FYM & paddy straw/banana leaves after sowing.
- In South Eastern Ghat Zone, due to low night temperature cover the vegetable nursery with polythene cover during night. Undertake field preparation for transplanting of rice.
- In North Eastern Coastal Plain Zone, current weather favours attack of powdery mildew in pulses. To control it, spray Sulfex @ 5g/litre of water.

Bihar

- In North West Alluvial Plain Zone, as dry weather would prevail, undertake weeding in wheat crop and apply 2nd irrigation.
- In South Bihar Alluvial Zone, apply irrigation in the pea crop before flowering stage, in timely sown wheat at tillering stage and at CRI stage in late sown wheat. In view of very low temperature,

farmers are advised to apply light irrigation at evening time to protect the standing crops from probable frost.

Jharkhand

- In South Eastern Plateau Zone, continue nursery raising of summer rice. Apply irrigation in wheat (tillering stage), mustard, linseed and vegetable crops as per requirement.
- In Central and North Eastern Plateau Zone, undertake transplanting of summer rice.
- In Western Plateau Zone, undertake nursery sowing of summer rice. Continue harvesting of matured toria
- In Central and North Eastern Plateau Zone, due to foggy weather and decrease in temperature, there are chances of infestation of early and late blight disease in potato, spray Endofil M-45 or Redomil MZ @ 2g/litre of water.

West Bengal

- In Coastal Saline Zone, undertake main field preparation and start transplanting Boro rice. Complete sowing of sunflower at optimum soil moisture conditions. Apply irrigation to potato crop after earthing up operation.
- In New Alluvial Zone, carry out main field preparation and start transplanting Boro rice undertake sowing of spinach, coriander and fenugreek may be done in present weather conditions.
- In the Old Alluvial Zone, undertake field preparation and sowing of summer Okra crop.

Andhra Pradesh

- In the Southern Zone, to control blast in rice, spray Tricyclozole (Beem) @ 0.6 g./L of water. If the intensity of the disease is more, spray Isoprothiolin @ 1.5 ml./litre of water.

Telangana

- In North Telangana Zone, undertake transplanting of rice seedlings to main field. Maintain shallow depth of water at the time of transplanting. Provide irrigation during flowering / grain filling stage in sorghum crop, at flower initiation stage in Bengal gram and enough irrigation at pod development stage in groundnut crop.
- In South Telangana Zone, to control aphids in maize, spray Dimethioate @ 2 ml or Mithyl Demetan @ 2 ml or Acephate @ 1.5 g per litre of water.

Tamil Nadu

- In the Southern Zone, continue picking of Cotton during morning and evening hours.
- In the Heavy Rainfall Zone, provide irrigation to the newly planted fruit trees and other horticultural crops.
- In the South Zone, to control Helicoverpa armigera in chickpea crop, use Pheromone traps for @ 12 Nos. / ha and set up Bird perches in the field @ 50 Nos./ha.

Karnataka

- In Southern Dry Zone, continue sowing of ragi (KMR-204, 301, Indof-9, GPU-28 varieties) and rice (MTU-1000, 1001, KRH-4, IR-64 varieties) crops.
- In Southern Transition Zone, continue nursery preparation of rice.
- In North Transition Zone, provide irrigation to sorghum, wheat and late sown Bengal gram crop.
- In North East Dry Zone, apply irrigation to wheat. Complete last picking of cotton in early sown cotton and third picking of seed cotton in late sown cotton.
- In Central Dry Zone, apply light irrigation in chickpea before flowering. Continue harvesting of matured fruits of chilli.

Maharashtra

- In Konkan, maintain water level up to 5 cm in transplanted rice.
- In Madhya Maharashtra, undertake land preparation and planting of *suru* sugarcane. Complete land preparation for summer groundnut (varieties are Phule Unnati, TAG24, TG26, TPG41, JL501). Undertake harvesting of matured pigeon pea.
- In Marathwada, apply irrigation to wheat. Undertake plantation of *suru* sugarcane. To control wheat rust, spray Dithane 45 % @ 20 g per 10 liter of water.
- In Vidarbha, as dry weather prevailed and expected to prevail during next 5 days, apply irrigation to standing crops, vegetables and orchards. Undertake transplanting of 22-25 days old rice seedling in East Vidarbha. Undertake land preparation and sowing of groundnut (varieties : TAG-24, TG-26, SB-11).