

Advisory for DD Kisan dated 16.01.18

(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 many places over Bihar; at a few places over East Uttar Pradesh and Tripura; at isolated places over Punjab, Coastal Andhra Pradesh and moderate to dense fog at isolated places over Marathwada, Gangetic West Bengal, Assam & Meghalaya.
- Yesterday, **severe cold day conditions** are observed at many places over Bihar; at a few places East Uttar Pradesh and at isolated places over Tripura; cold day conditions at isolated places over West Bengal & Sikkim. Cold wave conditions observed at isolated places over Bihar, Jharkhand and Odisha.

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 Assam and Arunachal Pradesh.

Minimum temperature

- **Minimum temperature departures as on 16.01.2018:**
- Minimum temperatures are appreciably below normal (3.1°C to 5.0°C) at most places over Jharkhand; at many places over Gangetic West Bengal and Odisha; below normal (1.6°C to 3.0°C) at many places over Punjab and East Madhya Pradesh; at a few places over Haryana, Chandigarh & Delhi and at isolated places over Rajasthan, Uttar Pradesh and Chhattisgarh.
- **The lowest minimum temperature of 0.0°C recorded at Sikar (East Rajasthan) in the plains of the country.**

Forecast:

- Minimum temperatures are likely to rise by 2-3°C over parts of northwest India during next 24 hours and fall by the same figures thereafter. They are likely to fall by 1-2°C over west central & adjoining interior Peninsula during next 48 hours.

5 Day Rainfall Forecast (Mid-day) 16th January 2018

Met-Sub-Division	16-Jan Today	17Jan Wed	18Jan Thu	19Jan Fri	20Jan Sat
1. Andaman & Nicobar Islands	ISOL	SCT	SCT	SCT	SCT
2. Arunachal Pradesh	DRY	DRY	DRY	DRY	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	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	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	DRY	DRY	DRY	DRY	DRY
16. Jammu & Kashmir	ISOL	ISOL	ISOL	DRY	DRY
17. West Rajasthan	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. 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	ISOL
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

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

Cold wave conditions at isolated places very likely over Punjab, Himachal Pradesh, Uttarakhand , north Rajasthan, East Uttar Pradesh, Jharkhand, Bihar, interior Odisha

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

- **17 January (Day 2):** Dense to very dense fog at many places very likely over Bihar and Sub Himalayan West Bengal; at a few places over Punjab, Haryana, Chandigarh & Uttar Pradesh and at isolated places over Uttarakhand ,Nagaland, Manipur, Mizoram & Tripura;

Dense fog at isolated places over Himachal Pradesh and Assam & Meghalaya and Coastal Andhra Pradesh

Cold Day to severe cold day conditions at many places very likely over Bihar; at isolated places over East Uttar Pradesh, Sub Himalayan West Bengal

Cold wave conditions at isolated places very likely over Himachal Pradesh, Uttarakhand ,Punjab, north Rajasthan East Uttar Pradesh, Jharkhand, Bihar, interior Odisha

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

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

Cold Day to severe cold day conditions at a few places very likely over Bihar and at isolated places over East Uttar Pradesh

Cold wave to severe cold wave conditions at a few places very likely over Punjab and north Rajasthan and at isolated places over Himachal Pradesh, Uttarakhand; Cold wave conditions at isolated places over Jammu & Kashmir, Haryana, Chandigarh, Uttar Pradesh, Jharkhand, Bihar and interior Odisha

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

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

Cold Day to severe cold day conditions at a few places very likely over Bihar and at isolated places over East Uttar Pradesh

Cold wave to severe cold wave conditions at a few places very likely over Punjab and north Rajasthan and at isolated places over Himachal Pradesh, Uttarakhand; Cold wave conditions at isolated places over Jammu & Kashmir, Haryana, Chandigarh, Uttar Pradesh, Jharkhand, Bihar and interior Odisha

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

- **20 January (Day 5):** Dense to very dense fog at a few places very likely over Bihar and Sub Himalayan West Bengal; at isolated places over East Uttar Pradesh Uttarakhand and dense fog at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura,

Cold Day to severe cold day conditions at a few places very likely over Bihar and at isolated places over East Uttar Pradesh.

Cold wave to severe cold wave conditions at a few places very likely over Punjab and north Rajasthan and at isolated places over Himachal Pradesh, Uttarakhand;

Cold wave conditions at isolated places over Jammu & Kashmir, Haryana, Chandigarh, Uttar Pradesh, Jharkhand, Bihar and interior Odisha

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

Fog and Advisories

Realised:

- **Dense to very dense fog** observed at many places over Bihar; at a few places over East Uttar Pradesh and Tripura; at isolated places over Punjab, Coastal Andhra Pradesh and moderate to dense fog at isolated places over Marathwada, Gangetic West Bengal, Assam & Meghalaya.

Forecast:

- Shallow to moderate fog during late night & morning hours very likely over parts of plains of northwest and eastern India during next 2 days.

Warning:

- Dense to very dense fog at many places very likely over Bihar and Sub Himalayan West Bengal during next 48 hours and at a few places thereafter.
- Dense to very dense fog at a few places over Punjab, Haryana, Chandigarh & West Uttar Pradesh during next 48 hours and dense fog at isolated places on 18th January.
- Dense to very dense fog at a few places very likely over East Uttar Pradesh during next 72 hours and at isolated places thereafter.
- Dense to very dense fog at isolated places over Coastal Andhra Pradesh during next 24 hours, over Uttarakhand during next 72 hours,
- Dense to very dense fog at isolated places over Nagaland, Manipur, Mizoram & Tripura during next 48 hours & isolated dense thereafter.
- Dense fog at isolated places over Himachal Pradesh during next 72 hours and over Assam & Meghalaya during next 5 days.

Advisory:

- Monitor the standing crops for incidence and spread of pest & diseases, tomato, chilli, onion and potato crops for early/late blight disease. If symptoms are noticed, undertake plant protection measures.
- In Upper Brahmaputra Valley Zone of Assam, due to low night temperature and dense fog, to control aphid attack in rapeseed & mustard crop spray Dimethoate 30EC or Chloropyrifos 20EC @ 0.5 litre in 500-700litre of water/ha.

Cold wave & ground frost conditions and Advisories

Warning:

- Cold wave / Cold wave to severe cold wave conditions at isolated / at a few places very likely over Punjab, Himachal Pradesh, Uttarakhand, north Rajasthan, East Uttar Pradesh, Jharkhand, Bihar, interior Odisha during next 5 days and cold wave conditions at isolated places over Jammu & Kashmir, Haryana, Chandigarh, West Uttar Pradesh after 48 hours.
- Ground frost conditions very likely at a few places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand and at isolated places over East Uttar Pradesh and north Rajasthan during next 5 days and at isolated places over Punjab & Haryana after 48 hours.

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.
- In Semi Arid Eastern Plain Zone of Rajasthan, to protect sensitive crops like mustard, Rajmash, potato, gram from frost attack, spray dilute Sulphuric Acid @ 0.1% (1 litre H₂SO₄ in 1000 litre water) or Thiourea @ 500 ppm (Thiourea @500 g / 1000 litres 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

Sate-wise Advisories

Jammu & Kashmir

- In Intermediate Zone, in view of prevailing dry weather and cold wave condition, apply irrigation to late sown wheat crop, rabi pulses. Continue light weeding and hoeing in vegetables followed by irrigation depending upon soil moisture conditions. Undertake planting of new orchards of stone fruits (peach, plum & apricot), almond, walnut etc.
- In Valley Temperate Zone, undertake mulching in vegetables to protect from frost, Provide drainage channels in the fields wherever there is probability of water accumulation during winter month

Punjab

- In Western Zone of Punjab, apply light irrigation in mustard, vegetables and fruit plants to protect from low temperature. Complete planting of spring potato and transplanting of onion.

Rajasthan

- In Semi Arid Eastern Plain Zone, undertake nursery raising of tomato. To protect sensitive crops like mustard, rajmash, potato, gram from frost attack, spray dilute Sulphuric Acid @ 0.1% (1 litre H₂SO₄ in 1000 litre water) or Thiourea @ 500 ppm (Thiourea @500 g / 1000 litres water) at flowering stage.

- In Bikaner district of Arid Western Plain Zone, due to high temperature, rabi crops may show wilting symptoms. Apply irrigation to standing rabi crops when required and as per critical growth stages.
- In Flood Prone Eastern Plain Zone, spray a solution of Mancozeb @ 2g/litre water to manage blight in potato crop. Apply irrigation in wheat, to manage pod borer in gram dust Malathion 5% or Methyl Parathion 2% or Carboryl 5% @ 20-25 kg per hectare during calm wind.

Odisha

- In South Eastern Ghat zone, apply light irrigation to summer rice nursery twice a week and complete sowing of *rabi* groundnut, apply irrigation as per requirement.
- In Western Undulating Zone, complete sowing of pre germinated rice seed in puddled nursery bed. Provide light and frequent irrigation to vegetable crops and rice nursery as cold wave conditions are likely to prevail. Prepare main field for transplanting at three week stage of seedling. Undertake harvesting of matured pods of pigeon pea.
- In North Central Plateau Zone, undertake field preparation for transplanting of rice and undertake transplanting with two seedlings per hill in erect & shallow position. Apply irrigation in wheat at CRI stage. Undertake field preparation for sowing of summer moong.

West Bengal

- In Old Alluvial Zone, undertake sowing of summer okra & install yellow sticky trap @ 5-6trap/bigha for aphid control in mustard.
- In Coastal Saline Zone, undertake main field preparation and start transplanting seedlings in 2-3 days. Continue sowing of sunflower varieties like Kaberi, Abinash-2, ganga, j.K. etc.

Assam

- In Lower Brahmaputra Valley Zone, undertake transplanting of Boro Seedlings with 5-6 leave stage in main field. Apply irrigation to potato crop at tuber formation stage i.e., 60 days after planting. Apply irrigation to lentil crop at pod filling stage.
- In Upper Brahmaputra Valley Zone of Assam, due to low night temperature and dense fog, to control aphid attack in rapeseed & mustard crop spray Dimethoate 30EC or Chloropyriphos 20EC @ 0.5 litre in 500-700litre of water/ha. Due to prevailing dry weather condition, apply irrigation to maintain 5±2 cm of standing water in rice field. Before irrigation replant dead hills in the main field.

Tamil Nadu and Puducherry

- In Karaikal district, undertake sowing of pulses like black gram (variety ADT 3), green gram (ADT 3). To control bacterial leaf blight in rice, spray Copper hydroxide 77 WP @ 2.5 g/litre water.
- In Cauvery Delta Zone, to control brown spot incidence in thaladi rice spray Carbendazim @ 200 g/ acre or Mancozeb @ 400 g/ acre in 200 litres of water. In samba rice field before harvesting, drain the excess rainwater and then sow rice fallow pulses black gram (ADT 3 & ADT 6) and green gram (ADT 3) in harvested filed under soil moisture condition.

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. Due to cloudy weather, if attack of aphids is observed in wheat, jowar, maize and vegetable crops, spray Thiamethoxam 25 WG@ 50 g in 500 liters of water per ha.
- In Marathwada, as dry weather is prevailing, apply irrigation to standing crops like wheat, jowar vegetables and orchards. Undertake sowing of summer vegetables.

- 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 for sowing of groundnut (varieties : TAG-24, TG-26, SB-11).