

Advisory for DD Kisan dated 19.02.19
(Agromet Advisories mentioned in the inputs are prepared by different Agromet Field Units in the country)

Significant Weather Features

- Fairly widespread to widespread rain/snow occurred over Western Himalayan Region (WHR) and scattered to fairly widespread rain/thundershowers over Punjab and Haryana, Chandigarh & Delhi yesterday. The circulation features associated with yesterday's Western Disturbance (WD) has weakened today. A fresh WD is approaching Northwest India and an induced low pressure area has formed over southwest Rajasthan & neighbourhood today morning.
- In association with the above system, there would be high moisture incursion from Arabaian Sea over northwest India specially over WHR mainly on 20th and 21st February 2019. Strong wind convergence at mid & upper tropospheric levels over WHR and wind confluence at lower levels over plains of northwest India would also take place during same period. Fairly widespread to widespread rain/snow would occur over Jammu & Kashmir and Himachal Pradesh; and scattered to fairly widespread over Uttarakhand during next 3 days. Isolated to scattered rainfall would occur over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and Uttar Pradesh during 19th to 21st February, 2019.
- Isolated heavy to very rain/snow on 20th and Isolated heavy rain/snow on 21st is likely over Jammu & Kashmir and Isolated heavy rain/snow is likely over Himachal Pradesh on 20th & 21st February, 2019. Isolated heavy rain/thundershowers is likely over Punjab on 20th.

Realised Rainfall

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

- Rain/snow/thundershowers occurred at most places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
- Rain/thundershowers occurred at most places over Arunachal Pradesh; many places over Punjab; at a few places over Assam & Meghalaya and at isolated places over Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, Nagaland, Manipur, Mizoram & Tripura, Rajasthan and Tamilnadu.

5 Day Rainfall Forecast (MID-DAY)

19-February-2019

Met-Sub-Division	19-Feb Today	20Feb Wed	21Feb Thu	22Feb Fri	23Feb Sat
1. Andaman & Nicobar Islands	DRY	DRY	DRY	DRY	DRY
2. Arunachal Pradesh	FWS	ISOL	DRY	ISOL	SCT
3. Assam & Meghalaya	ISOL	ISOL	DRY	DRY	ISOL
4. N. M. M. & T.	ISOL	DRY	DRY	DRY	DRY
5. S.H. West Bengal & Sikkim	ISOL	DRY	DRY	DRY	ISOL
6. Gangetic West Bengal	DRY	DRY	DRY	DRY	ISOL
7. Odisha	DRY	DRY	DRY	DRY	ISOL
8. Jharkhand	DRY	DRY	DRY	ISOL	ISOL
9. Bihar	DRY	DRY	DRY	DRY	ISOL
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	DRY
11. West Uttar Pradesh	ISOL	ISOL	ISOL	DRY	DRY
12. Uttarakhand	SCT	FWS	WS	SCT	ISOL
13. Haryana, Chd & Delhi	ISOL	FWS	SCT	ISOL	DRY
14. Punjab	SCT	WS	FWS	ISOL	DRY
15. Himachal Pradesh	FWS	WS	WS	SCT	ISOL
16. Jammu & Kashmir	FWS	WS	WS	SCT	ISOL
17. West Rajasthan	SCT	SCT	ISOL	DRY	DRY
18. East Rajasthan	ISOL	SCT	ISOL	DRY	DRY
19. West Madhya Pradesh	ISOL	ISOL	ISOL	DRY	DRY
20. East Madhya Pradesh	DRY	ISOL	ISOL	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Seaurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	ISOL	DRY	DRY	DRY
25. Marathwada	DRY	ISOL	ISOL	DRY	DRY
26. Vidharbha	DRY	ISOL	ISOL	DRY	DRY
27. Chhattisgarh	DRY	DRY	ISOL	ISOL	ISOL
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	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	ISOL	ISOL	DRY	DRY	DRY
36. Lakshadweep	DRY	ISOL	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 February (Day 1): Thunderstorm accompanied with lightning & gusty winds** at isolated places very likely over Uttar Pradesh, Coastal Andhra Pradesh and Tamilnadu & Puducherry.
- **Thunderstorm accompanied with hailstorm, lightning & gusty winds** at isolated places very likely over West Rajasthan.
- **Dense fog** at isolated places very likely over coastal Odisha.
- **20 February (Day 2): Heavy to very heavy rain/snow at isolated places very likely** over Jammu & Kashmir; Heavy rain/snow at isolated places very likely over Himachal Pradesh and Heavy rain at isolated places very likely over Punjab.
- **Thunderstorm accompanied with hailstorm, lightning & gusty winds** at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and north Rajasthan.
- **Thunderstorm accompanied with lightning & gusty winds** at isolated places very likely over West Madhya Pradesh and Vidarbha.
- **Dense fog** at isolated places very likely over coastal Odisha.
- **21 February (Day 3): Heavy rain/snow at isolated places very likely** over Jammu & Kashmir and Himachal Pradesh.
- **Thunderstorm accompanied with hailstorm, lightning & gusty winds** at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab and Haryana, Chandigarh & Delhi.
- **Thunderstorm accompanied with lightning & gusty winds** at isolated places very likely over Madhya Pradesh.
- **22 February (Day 4): ♦ No weather warnings.**
- **23 February (Day 5): ♦ No weather warnings..**

Salient Advisories

Thunderstorm/ hailstorm and advisory

Warning

- **Thunderstorm accompanied with hailstorm, lightning & gusty winds** at isolated places very likely over West Rajasthan on 19th; at isolated places very likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi on 20th and 21st and Uttar Pradesh & north Rajasthan on 20th.
- **Thunderstorm accompanied with lightning & gusty winds** at isolated places very likely over Uttar Pradesh, Coastal Andhra Pradesh and Tamilnadu & Puducherry on 19th; West Madhya Pradesh and Vidarbha on 20th and over Madhya Pradesh on 21st.

Advisory

In above regions, 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. Postpone application of plant protection measures and fertilizers to the standing crops during gusty wind.

Heavy rain/snow

Warning

- Heavy to very heavy rain/snow at isolated places very likely over Jammu & Kashmir on 20th ; Heavy rain/snow at isolated places very likely over Jammu & Kashmir and Himachal Pradesh during 20th and 21st and Heavy rain at isolated places very likely over Punjab on 20th.

Advisory

- Avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide drainage channels in the fields wherever there is probability of water accumulation in rabi crops (wheat, oats, lentil, pea, brown sarson, saffron chickpea) in Jammu & Kashmir. Avoid pruning of apple trees. Cover the trenches and polyhouses with polythene and blankets during the night to avoid losses due to sudden dip in temperature in Himachal Pradesh.

Fog and Advisories

Forecast

- Dense fog at isolated places very likely over coastal Odisha during next two days.

Advisory

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

State-wise Advisories

Assam, Arunachal Pradesh and Manipur

- In Assam undertake harvesting rapeseed & mustard and matured potato crops and keep the produce at safer location as early as possible.
- In North Bank Plain Zone of Assam undertake land preparation by ploughing to conserve moisture for sowing of direct seeded ahu rice, summer green gram and black gram.
- In Central Brahmaputra Valley zone of Assam undertake land preparation for sowing of *Capsularis* jute.
- In Arunachal Pradesh undertake nursery sowing of early kharif vegetables like Capsicum, tomato & other vegetables. Provide adequate drainage to already sown crops to avoid water stagnation.
- In Manipur, continue nursery raising of pre-kharif rice.
- In Nagaland, harvest cabbage crop and prepare seedling of cucurbitaceous vegetable in polythene bag.
- In Tripura continue harvesting of rabi legumes (mustard, lentil).

Jammu & Kashmir

- As there was significant rainfall in past few days and there is possibility of rainfall in next 5 days, drain out excess water from the orchards by making drainage channels. If the fruit trees have tilted, reduce the canopy load by pruning and provide mechanical support to the plants. If the trees are partially uprooted, slowly pull back the trees to the original position after pruning and provide proper mechanical support/staking to the main trunk to prevent further fall/ movement.

Uttarakhand

- Undertake **planting** of fruit crops like-apple, pear, plum, walnut etc during clear weather.
- Undertake nursery preparation for sowing of early cucurbitaceous crops.

Kerala

- Undertake harvesting of rice.

Tamilnadu and Puducherry

- In Karaikal region, undertake sowing of rice fallow pulses, cotton and sesame after seed treatment.
- In Western zone of Tamilnadu undertake sowing of sesame under assured irrigation.
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Madhya Pradesh and Chhattisgarh

- In Jhabua Hill zone of Madhya Pradesh undertake harvesting of chickpea and mustard
- In Chhattisgarh undertake land preparation for sowing of summer legume crops like moong and urad.

Gujarat

- In Gujarat undertake harvesting of mustard and potato. Stop irrigation to potato crop one week before harvesting the crop.
- In Saurashtra & Kutch, continue land preparation and sowing of summer crops with assured irrigation facilities.

Maharashtra

- In Konkan, to control powdery mildew in mango, spray Hexaconazol 5% @ 5 ml per 10 liters of water with 20 g of Sulphur.
- In Madhya Maharashtra, continue harvesting of matured sorghum and chickpea . Dry harvested produce in sunlight and keep it in safer place.
- In Marathwada undertake harvesting of turmeric and *rabi* sorghum.
- In Vidarbha, continue harvesting of matured safflower and gram. Keep harvested produce at a safer place.

Andhra Pradesh and Telangana

- In South Coastal Andhra Pradesh weather is conducive for incidence of powdery mildew in pulses. Spray Carbendazim@ 200 gm or Thiophanate methyl@200 gm or Hexaconazole@ 400 gm or Propiconazole@ 200 gm per acre twice at 10 days intervals.

- In Rayalaseema region of Andhra Pradesh, weather is favourable for incidence of sucking pests in groundnut. Spray of Monochrotophos @1.6 ml or Imidacloprid 0.3ml or Dimethoate @ 2 ml per litre of water
- In Telangana prevailing dry weather conditions are congenial for incidence of sucking pests in vegetables. Spray Fipronil @ 2ml or Thiomethoxim @ 0.3g per litre of water.

Karnataka

- In South Interior Karnataka, weather is conducive for incidence of leaf hopper and powdery mildew on mango. Spray Carbaryl, 50WP @4g/litre of water or Imidachlorprid 200. S.L @ 0.3ml/litre of water.
- In North Interior Karnataka, continue planting of new sugarcane crop and harvesting of niger, safflower and early sown maize.

Uttar Pradesh

- In East Uttar Pradesh, undertake sowing of urd / mung bean / ladyfinger / lobia as intercrops in sugarcane in 2:1 ratio. Also undertake harvesting of rapeseed & mustard.
- In West Uttar Pradesh, undertake land preparation for sowing of *Zaid* crops like maize and urad.

Rajasthan

- Undertake harvesting of potato after leaves become yellow. Stop irrigation ten days prior to harvest.
- Weather is conducive for incidence of gram pod borer (*Heliothis*) on gram. Dust Malathion 2% @ 25 kg per hectare. In areas having facility of water, spray Malathion 50 EC @ 1.0 ml per litre water on a non-rainy day.

Odisha

- Continue transplanting of summer rice to the main fields. Rising temperature will favour incidence of stem borer in rice nurseries. Install pheromone traps to monitor stem borer incidence.
- Undertake land preparation for planting of sugarcane, sowing of mung and sesamum in the state.

West Bengal

- In Sub Himalayan West Bengal, undertake harvesting of cole crop (cauliflower, cabbage, etc).

Bihar & Jharkhand

- Continue sowing of maize and land preparation for transplanting of rice in Jharkhand.
- Undertake harvesting of early sown mustard & potato after proper hardening of tuber and undertake land preparation for sowing of summer maize & vegetables in Bihar.

Punjab, Haryana and Delhi

- In Punjab, weather is favourable for incidence of yellow rust in wheat. If observed spray Tilt or Bumper or Markzole @ 200 ml in 200 litres of water per acre. Repeat the spray at 15 days interval. Undertake sowing of spring maize and sunflower after current spells of rain.

- Due to prevailing high humidity level in Haryana incidence of *Alternaria* blight and powdery mildew may occur in mustard crop, if observed spray Mancozeb/Indophil M 45 @ 600 gram in 300 liter water per acre after current spells of rain.
- In Delhi, weather is conducive for occurrence of black, brown or yellow rust on wheat. If symptoms appear, spray Dithane M-45 @ 2.5 gram/litre of water after current spells of rain.