

# Advisory for DD Kisan dated 10.04.18

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

## Significant Weather Features

- The fairly widespread to widespread precipitation over Western Himalayan region and scattered to fairly widespread rainfall over adjoining northern plains in association with Western Disturbance is likely to continue during next 48 hours and decrease thereafter. Isolated thunder squalls and hailstorms are also likely over these regions during this period.
- Northeastern states and adjoining eastern India is likely to experience fairly widespread precipitation during next 5 days. Isolated thunder squalls are likely over these regions on 11<sup>th</sup> & 12<sup>th</sup> with possibility of hailstorms over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya.
- Heavy rains are also likely over Arunachal Pradesh & Meghalaya during 12<sup>th</sup>-14<sup>th</sup> April.
- Day temperatures are likely to rise by 2-3°C over major parts of the country from 12<sup>th</sup> April onwards.
- Thunderstorm observed at many places over Uttarakhand; at a few places over East Madhya Pradesh, Jharkhand and Odisha and at isolated places over Jammu & Kashmir, Rajasthan, West Uttar Pradesh, Madhya Maharashtra, Coastal Karnataka, North Interior Karnataka, Lakshadweep,
- Tamil Nadu & Puducherry, West Bengal & Sikkim and Assam & Meghalaya from 0830 hours of yesterday to 0830 hours IST of today.
- Yesterday, heat wave conditions prevailed at one or two pockets of West Rajasthan.

## Realised Rainfall

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

- Rain / thundershowers observed at most places over Jammu & Kashmir, Uttarakhand, west Uttar Pradesh, Jharkhand and Andaman & Nicobar Islands; at many places over Himachal Pradesh, West Bengal & Sikkim, Odisha and Lakshadweep; at a few places over Punjab, Haryana, Chandigarh & Delhi, East Madhya Pradesh, North Interior Karnataka, and Kerala and at isolated places over Rajasthan, East Uttar Pradesh, west Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh, Telangana, Madhya Maharashtra, Tamilnadu & Puducherry and Coastal Karnataka.

## Maximum temperature

- **Maximum temperature departures as on 09.04.2018:** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan and at isolated places over

Saurashtra & Kutch and Assam & Meghalaya. above normal (1.6°C to 3.0°C ) at many places over Himachal Pradesh, East Rajasthan, Konkan & Goa, Coastal Karnataka and Arunachal Pradesh; at a few places over West Madhya Pradesh and Kerala and at isolated places over East Madhya Pradesh, Punjab and Tamilnadu & Puducherry.

- The highest maximum temperature of 43.2°C was recorded Phalodi (West Rajasthan) over the plains of the country.

### Temperature Forecast:

- No significant change in maximum temperatures over major parts of the country during next 2 days and rise by 2-3°C over plains of northwest, central and west India thereafter.

### 5 Day Rainfall Forecast (Mid-day) 10<sup>th</sup> April 2018

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

#### % 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

- **10 April (Day 1):** Thunderstorm accompanied with squall and hail very likely at isolated places over Bihar, Jammu & Kashmir and Himachal Pradesh.  
Thunderstorm accompanied with squall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.  
Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Gangetic West Bengal, Jharkhand, north Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu & Puducherry, Kerala, Interior Karnataka, north Coastal Andhra Pradesh, Rayalaseema, Vidarbha and Chhattisgarh.  
Duststorm/Thunderstorm very likely at isolated places over West Rajasthan.  
Heat wave conditions likely at one or two pockets over southwest Rajasthan.
- **11 April (Day 2):** Thunderstorm accompanied with squall and hail very likely at isolated places over Punjab, Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Assam & Meghalaya.  
Thunderstorm accompanied with squall very likely at isolated places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Nagaland, Manipur, Mizoram & Tripura.  
Thunderstorm accompanied with gusty winds very likely at isolated places over East Uttar Pradesh, East Rajasthan, Bihar, West Bengal & Sikkim, Tamilnadu & Puducherry, South Interior Karnataka and north Coastal Andhra Pradesh.  
Duststorm/Thunderstorm very likely at isolated places over West Rajasthan.  
Heat wave conditions likely at one or two pockets over southwest Rajasthan.
- **12 April (Day 3) :** Heavy rainfall likely at isolated over Meghalaya and Arunachal Pradesh.  
Thunderstorm accompanied with squall and hail very likely at isolated places over Assam & Meghalaya and Uttarakhand.  
Thunderstorm accompanied with squall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura.  
Thunderstorm accompanied with gusty winds very likely at isolated places over Bihar, Sub-Himalayan West Bengal & Sikkim, south Odisha and Kerala.  
Heat wave conditions likely at one or two pockets over southwest Rajasthan.
- **13 April (Day 4):** Heavy rainfall likely at isolated over Meghalaya and Arunachal Pradesh.  
Heat wave conditions likely at one or two pockets over West Rajasthan.
- **14 April (Day 5):** Heavy rainfall likely at isolated over Arunachal Pradesh.  
Thunderstorm accompanied with gusty winds likely at isolated places over Kerala.  
Heat wave conditions likely at one or two pockets over West Rajasthan.

## **Heavy Rainfall warning and Advisory**

### **Warning:**

- Heavy rain very likely at isolated places over Arunachal Pradesh during 12<sup>th</sup> to 14<sup>th</sup> April and over Assam and Meghalaya 12<sup>th</sup> & 13<sup>th</sup> April.

### **Advisory:**

- In view of expected rain with isolated heavy rain in above regions, postpone irrigation, application of fertilizers and plant protection methods to standing crops. Provide adequate drainage in standing crops to avoid water stagnation. Avoid sowing of summer crops during heavy spells of rain.

## **Thunderstorm accompanied with hail/ squall/ gusty winds**

### **Warning:**

- Thunderstorm accompanied with squall and hail very likely at isolated places over Bihar during next 24 hours, over Jammu & Kashmir and Himachal Pradesh during next 48 hours. Over Uttarakhand and Assam & Meghalaya on 11<sup>th</sup> and 12<sup>th</sup> April.
- Thunderstorm accompanied with squall /gusty winds very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Gangetic West Bengal, Jharkhand, north Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu & Puducherry, Kerala, Interior Karnataka, north Coastal Andhra Pradesh, Rayalaseema, Vidarbha and Chhattisgarh during next 2-3 days.
- Duststorm/Thunderstorm very likely at isolated places over West Rajasthan on 10<sup>th</sup> & 11<sup>th</sup> April.

### **Advisory:**

- In view of thunderstorm accompanied with squall and hail in above regions, make arrangement for hailnet or hailcaps in orchards to protect orchard fruits and fruit vegetables like tomato from damage due to hail. Harvest matured fruits and fruit vegetables as early as possible.
- In view of expected thunderstorm accompanied with squall / gusty winds in above regions arrange support to young fruit plants and vegetables, propping up in sugarcane to prevent the crops from lodging due to strong winds. Keep harvested produce at safe places. Avoid chemical spraying/dusting during the period.
- In view of expected dust storm/thunderstorm over West Rajasthan apply sprinkle irrigation to vegetables and young fruit plants in evening.

## **Heat Wave warning and Advisory**

### **Warning:**

Heat wave conditions likely at one or two pockets southwest Rajasthan during next 72 hours, on west Rajasthan on 13<sup>th</sup> & 14<sup>th</sup> April.

### **Advisory:**

- Apply light and frequent irrigation in standing crops to cope up with the excess evaporative demand due to high temperature.
- Mulch orchard with straw/polythene to conserve soil moisture
- As temperature is increasing, provide sufficient clean drinking water to animals. Provide gunny bag covering outside cowshed and sprinkle water. Avoid grazing of animals during the peak period of the day i.e. 11.00 AM to 3.00 PM.

## **Agromet Advisories for summer crops from different AMFUs in the country**

### **State-wise Advisories**

#### **Assam & Meghalaya, Arunachal Pradesh**

- In view of expected fairly wide spread/ wide spread rain during next 5 days with isolated heavy rain after 48 hours, postpone irrigation, application of fertilizers and plant protection methods to standing crops. Provide adequate drainage in standing crops to avoid water stagnation. Avoid sowing of summer crops during heavy spells of rain.
- In Arunachal Pradesh, undertake sowing of cucurbits, French bean and okra. Carry out land preparation for Jhum rice after current spells of heavy rain.
- In Lower Brahmaputra Valley Zone of Assam, undertake land preparation and sowing of Bao rice.
- In Upper Brahmaputra Valley Zone, continue sowing of maize after current spells of rain. Continue transplanting of Ahu rice seedlings and nursery sowing of Bao rice (varieties - Maguri, Panikekua, Amona, Negheri etc.). Continue Planting of banana suckers.
- In the Central Brahmaputra Valley Zone, postpone harvesting of matured wheat/rabi pulses and land preparation/sowing of Jute for next 5 days. Continue land preparation and sowing of Bao rice (varieties - Maguri, Kekua Bao, Negheri Bao, Tara Bao etc.) after current spells of heavy rain.
- In the North Bank Plain Zone, continue land preparation/sowing of Bau rice (varieties Maguri, Panikekua, Amona, Negheri etc.). Continue sowing of okra (varieties : Pusa Sawani, ArkaAnamika, Parbhdani Kranti etc.). Continue land preparation/sowing of direct seeded Ahu rice (varieties Banglami, Rangadoria, Ahu joha, Rasi etc.). Undertake land preparation for summer pulses like green gram and black gram after current spells of heavy rain.

#### **Jammu & Kashmir**

- In Sub Tropical Zone, due to chances of rainfall, do not irrigate normal and late sown wheat crop, drain out excess water immediately from fields to avoid water stagnation, undertake land preparation for sowing summer pulses like moong and mash in fallow fields.

#### **Nagaland, Mizoram, Manipur and Tripura**

- In Manipur, provide adequate drainage to pre-kharif rice, rabi maize and cucurbit crops. Carry out harvesting of potato.
- In Nagaland, undertake planting of ginger and turmeric.
- In Mizoram, continue harvesting matured potato. Undertake sowing of rice (Jhum), maize (Jhum), ginger, turmeric, cowpea and okra crops.
- In Tripura, continue transplanting of seedlings of summer brinjal and tomato to the main field. Undertake transplanting of Jhum rice seedlings in the main field. Complete the sowing of cowpea.

- In Nagaland, vaccinate poultry birds against coccidiosis and Ranikhet diseases. Vaccinate pigs against FMD & swine fever and cattle/sheep/goat against FMD, Hemorrhagic Septicemia, Black Quarter.

### Himachal Pradesh:

- In Sub-Montane and Low Hill Sub-Tropical Zone, continue sowing of sunflower in lowland mid-hill areas. Continue sowing of green gram and black gram.
- In High Hill Temperate Dry Zone, clean the polyhouse and prepare beds for nursery of vegetables. Complete the grafting work in apple nursery.

### Punjab, Haryana & Delhi

- Continue sowing of okra and cucurbits and continue harvesting of late sown mustard in clear weather in Western Zone of Punjab.
- In Western Plain Zone of Punjab, complete the sowing of *sathi* moong and *sathi* mash within this week after harvesting of wheat, complete harvesting of matured mustard in clear weather.
- In Undulating Plain Zone of Punjab, continue planting of sugarcane.
- In Western Zone of Haryana, continue harvesting of late sown mustard in clear weather. Continue sowing of green gram, black gram and planting of sugarcane.
- In Delhi, continue sowing of green gram (Variety: - Pusa Visal, Pusa Ratna, Pusa 5931, Pusa Baisakhi, PDM-11, SML-32, SML-668, Samrat).
- In Western Zone of Punjab, give special care to new born calves as day temperature is rising. Deworming should be done in calves regularly. Vaccinate animals against FMD.

### Rajasthan

- In Sub Humid Southern Plain and Aravalli Hill Zone, apply irrigation in summer groundnut at flowering stage.
- In Irrigated North Western Plain Zone, continue planting of sugarcane.
- In Flood Prone Eastern Plain Zone, undertake harvesting of matured wheat crop in clear weather.
- In Rajasthan, as temperature is increasing, provide sufficient clean drinking water to animals. Provide gunny bag covering outside cowshed and sprinkle water. Avoid grazing of animals during the peak period of the day i.e 11.00 AM to 3.00 PM.

### Karnataka

- In Eastern Dry Zone, undertake land preparation for sowing of cowpea, sesamum, Field bean etc.
- In Southern Dry Zone, to control blast in rice, spray Carbendazim @ 1g/ litre of water or Tricyclozoal @0.6 g/litre of water or Ediphenphose @ 1 ml/litre of water.

### Tamil Nadu

- In Cauvery Delta Zone, undertake harvesting of black gram by plucking up the matured pods or uprooting whole plants.

### Maharashtra

- In view of expected thunderstorm accompanied with gusty winds over Vidarbha during next 24 hours, provide mechanical support to orchards ( Banana, Papaya), staking in vegetables and undertake propping in mid season sugarcane.
- In Konkan, harvest matured pulses early in morning or late in evening and dry for 3 to 4 days. Due to temperature variation there is possibility of premature fruit dropping in mango, apply irrigation for alphonso mango @ 150 to 200 litres of water at fortnight interval.

- In Madhya Maharashtra, as rise in day temperature is expected after 48 hours, apply irrigation to summer crops, vegetables and fruits crops as per requirement. Reduce interval between two irrigation and irrigation should be given during evening hours. To control aphids, thrips and jassids in summer vegetables, spray Imidacloprid 17.8% SL@ 5 ml or Fipronil 5% SC@ 35 ml per 10 liters of water.
- In Marathwada, in view of prevailing dry weather, apply irrigation to summer bajra, vegetables and mango orchard. Undertake harvesting of matured turmeric. Undertake April pruning in grape orchard. To control Tikka leaf spot disease in summer groundnut, spray Mancozeb @ 2 g per liter of water.
- In Vidarbha, under the prevailing weather condition, apply irrigation to summer crops (groundnut, sesame, green gram etc) at 6 to 8 days interval. To reduce fruit drop in orange and sweet orange due to prevailing high temperature, spray Potassium Nitrate (10 g/liter of water) on pea sized fruits of mandarin orange (ambia bahar) and spray of NAA @ 2 g + Urea 1 kg per 100 liters of water In sweet orange. Spray may be repeated after 15 days. Apply frequent adequate irrigation coupled with mulch in orange orchards.