

# Advisory for DD Kisan dated 15.05.18

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

## Significant Weather Features

- The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 78 E to the north of Lat. 34 N and is moving away. A cyclonic circulation lies over Himachal Pradesh and neighbourhood at 1.5 km above mean sea level.
- Another cyclonic circulation lies over east Bihar and neighbourhood extending upto 1.5 km above mean sea level and a north-south trough in the mid-tropospheric levels runs roughly along Long. 88°E to the north of 24°N. Under the influence of these systems, isolated to scattered rains with isolated squall/ gusty winds are likely over western Himalayan region and east India during next 48 hours.
- With the approach of the fresh Western Disturbance, rainfall over Western Himalayan Region is likely to increase with the possibility of thunderstorms accompanied with squall and hail during the subsequent 48 hours.

## Realised Rainfall

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

- Rain/thundershowers observed at most places over Sub-Himalayan West Bengal & Sikkim; at many places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Chhattisgarh, Odisha and Karnataka; at a few places over Jammu & Kashmir, Telangana, Rayalaseema and Tamil Nadu & Puducherry; at isolated places over Assam & Meghalaya, Coastal Andhra Pradesh, East Madhya Pradesh, East Rajasthan, Konkan & Goa, Kerala, Lakshadweep and Andaman & Nicobar Islands.

## Maximum temperature

- **Maximum temperature departures as on 14.05.2018:** Maximum temperatures were appreciable above normal (3.1°C to 5.0°C) at isolated places over Konkan & Goa and Tamil Nadu & Puducherry; above normal (1.6°C to 3.0°C) at a few places over Assam & Meghalaya, West Rajasthan, Saurashtra & Kutch and Vidarbha; at isolated places over Madhya Pradesh, Marathwada and Madhya Maharashtra.
- **The highest maximum temperature of 45.0°C** recorded at **Bramhapuri (Vidarbha)**.

## Temperature Forecast:

- Maximum temperature is very likely to remain between 4144 °C over some parts of Vidarbha, southwest Madhya Pradesh, Marathwada and Gujarat during next 72 hours and no significant change in maximum temperature over rest of the country during the same period.

## 5 Day Rainfall Forecast (Mid-day)

15<sup>th</sup> May 2018

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

- **15 May (Day 1):** Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab, Madhya Pradesh, Vidarbha, Chhattisgarh, West Bengal & Sikkim, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, north Coastal Andhra Pradesh, Karnataka, Kerala and south Tamil Nadu.  
Heavy rain very likely at isolated places over South Interior Karnataka, Tamil Nadu & Puducherry and Kerala.  
Thunderstorm/ Duststorm very likely at isolated places over Rajasthan.
- **16 May (Day 2):** Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Gangetic West Bengal and Odisha.  
Thunderstorm accompanied with gusty winds very likely at isolated places over Sub- Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh, Coastal Karnataka, Tamil Nadu & Puducherry and Kerala.  
Heavy rain very likely at isolated places over Assam & Meghalaya, Tamil Nadu & Puducherry and Kerala.
- **17 May (Day 3):** Thunderstorm accompanied with squall and hail (wind speed reaching 50-70 kmph) very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.  
Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Gangetic West Bengal and Odisha.  
Thunderstorm accompanied with gusty winds very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, Tamil Nadu & Puducherry and Kerala.  
Heavy rain very likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- **18 May (Day 4):** Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand.  
Thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh and South Interior Karnataka.  
Heavy rain very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka.
- **19 May (Day 5):** Thunderstorm accompanied with gusty winds very likely at isolated places over South Interior Karnataka.  
Heavy rain very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and South Interior Karnataka.

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## **Heavy Rainfall warning and Advisory**

### **Warning:**

- Heavy rain very likely at isolated places over Kerala and Tamil Nadu & Puducherry during next 48 hours, over South Interior Karnataka during next 24 hours and on 18<sup>th</sup> & 19<sup>th</sup> May.
- Heavy rain very likely at isolated places over Assam & Meghalaya after 24 hours and over Nagaland, Manipur, Mizoram & Tripura after 48 hours

### **Advisory:**

- In view of expected rain avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Avoid harvesting of matured crops and keep harvested produce at safer places.

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

#### **Warning**

- Thunderstorm accompanied with squall and hail (wind speed reaching 50-70 kmph) very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 17<sup>th</sup> May.
- Thunderstorm accompanied with squall (wind speed reaching 50-70 kmph) very likely at isolated places over Gangetic West Bengal and Odisha on 16<sup>th</sup> & 17<sup>th</sup> May.
- Thunderstorm accompanied with gusty winds very likely at isolated places over at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh during next 24 hours and over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh West Bengal & Sikkim, Bihar, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, north Coastal Andhra Pradesh, Karnataka, Kerala and south Tamil Nadu during next 2-3 days and over
- Duststorm very likely at isolated places over Rajasthan during next 24 hours.

#### **Advisory**

- As thunderstorm accompanied with squall (wind speed reaching 50-70kmph) and hail very likely at isolated places over **Jammu & Kashmir, Himachal Pradesh and Uttarkhand** on 17<sup>th</sup> May, use hail net for orchard crops to protect from mechanical damage. Provide support to young fruit plants and vegetables and propping up in sugarcane to prevent the crops from lodging due to strong winds. Keep harvested produce at safe places.
- In view of expected thunderstorm accompanied with squall / gusty winds in remaining 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 spraying/dusting of chemicals during the period.

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

### **Sate-wise Advisories**

#### **Jammu & Kashmir**

- In Sub Tropical Zone, undertake land preparation and nursery raising of early transplanted rice (variety: IET-1410, K-39, Ratna, PC-19, Jaya) after receipt of rain. Postpone irrigation and chemical plant protection measures for next 5 days due to chances of rain.

#### **Punjab & Delhi**

- In Undulating Plain Zone of Punjab, if early shoot borer symptoms noticed in sugarcane, apply Padan or Regent @ 10kg/acre followed by light irrigation. Irrigation and insecticide application in sugarcane should be planed as per the weather during the period. Downy Mildew in cucurbits

may appear due to hot and moist weather in coming days, spray Indofil M45 or Kavach @ 300g/acre clear weather.

- In Delhi, in view of increasing temperature, apply light irrigation to all vegetable and standing crops. Irrigation should be done in the morning hours or evening hours. Sowing of cotton (varieties: H-777, H-974, H-1098) may be done in this week. Ensure sufficient moisture before starting sowing. continue field preparation for sowing of pigeonpea.

## Rajasthan

- In Arid Western Plain Zone, as rain is expected, withheld irrigation in cucurbits, fruit plants and fodder crops for some time. Undertaker sowing of American cotton by using 16 x 20-25 cm plant to plant spacing with irrigation.
- In Flood Prone Eastern Plain Zone, high day temperature may cause damage to horticultural crop, apply frequent and light irrigation. Chilli crop is affected by leaf curl & mosaic disease. To check the spread of disease uproot & burn affected plants & spray Dimethoate 30EC @ 1.0 ml per litre water.

## Assam

- In Barak Valley Zone, as moderate to heavy rainfall is forecasted for the coming week therefore, farmers are advised not to sow the seeds in the nursery bed. For flood affected areas grow flood tolerant Sali rice variety viz Swarna Sub-1, Ranjit Sub-1 and Bahadur Sub-1. As fairly wide spread rainfall is expected during next 5 days, postpone application of fertilizer to banana.

## Maharashtra

- In view of isolated rain/ thundershowers over the state during next 3-5 days, keep the harvested produce in safer place.
- In view of thunderstorm with gusty winds over Vidarbha on 15th May, provide mechanical support to orchards ( Banana, Papaya), staking in vegetables.
- In South Konkan, continue nursery bed preparation for kharif rice.
- In Madhya Maharashtra, continue preparatory tillage operations like ploughing, harrowing, land leveling and bunding for *kharif* crops in fallow lands. Apply irrigation to orchards and vegetables. Apply irrigation during evening hours.
- In Marathwada, complete harvesting of matured groundnut as early as possible, dry the harvested crop in shade before storage. Keep harvested produce in safer place. Irrigate banana plantation, pomegranate and sapota during early morning or at evening hours
- In Vidarbha, in view of thunderstorm with gusty winds over Vidarbha on 15th May, provide mechanical support to orchards ( Banana, Papaya), staking in vegetables. Undertake harvesting of early varieties of rice in East Vidarbha, dry the harvested crop in sun and thresh it. Do not apply any insecticides/fungicides 8 days before harvesting of matured rice crop. Keep harvested produce in safer place.

## Gujarat

- In North Gujarat, undertake land preparation for sowing of kharif crops.
- In South Saurashtra Zone, apply irrigation to summer groundnut, sesame, green gram & black gram.

- In South Gujarat, undertake nursery sowing for rice (NAUR-1, GNR-2 (Costal area) GNR-3, GNR-4, GNR-5, GNR-6 (Long duration), Jaya, Gurjari, GR-5, 7, 8, 9, IR-28, Purna and GAR-13)). Undertake sowing of cluster bean, cowpea, non Bt. cotton along with Bt. cotton.

### **Andhra Pradesh**

- In Krishna Godavari Zone, undertake deep ploughing with the help of the rains forecasted for coming days. Level the field for facilitating the drainage and irrigation operations timely and uniformly. Under present weather condition farmers are advised to go for sowing of green manure crops.

### **Telangana**

- In South Telangana Zone, taking the advantage of recent rains undertake summer ploughing to control weeds, hibernating pests and disease spores that may damage kharif crops. If incidence of sucking pests is noticed in vegetables, spray Dimethoate @ 2 ml or Acephate @ 1.5 g per litre of water.