

Advisory for DD Kisan dated 01.05.18

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

Significant Weather Features

- Yesterday, heat wave was observed at most parts over **West Rajasthan**; at some parts over **Vidarbha** and at one or two pockets over **East Rajasthan**.
- Heat wave conditions are likely to prevail over parts of **West Rajasthan** and **Vidarbha** during next 5 days and at one or two pockets over northern parts of **Madhya Maharashtra** and **Marathwada** during next 2-3 days.
- Strong low level convergence, moisture incursion and presence of jet speed winds in the upper levels are providing conducive conditions for the occurrence of severe thunder-squalls and heavy rainfall at isolated places over parts of eastern India comprising Gangetic West Bengal, Bihar, Odisha and northeastern states during next 2-3 days.
- An approaching Western Disturbance is very likely to cause scattered to fairly widespread precipitation and isolated thunder-squalls and Hail storms over Western Himalayan Region and isolated to scattered rainfall and thunder-squalls over northern plains on 2nd & 3rd May.

Realised Rainfall

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

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh; at many places over Assam & Meghalaya, Odisha and Andaman & Nicobar Islands; at a few places over Uttarakhand, Bihar, Jharkhand, East Madhya Pradesh and Tamil Nadu & Puducherry and at isolated places over East Uttar Pradesh, Chhattisgarh, West Madhya Pradesh, South Interior Karnataka and Kerala.

Maximum temperature

- **Maximum temperature departures as on 30.04.2018:** Maximum temperatures were markedly above normal (5.1°C or more) a few places over Jammu & Kashmir and at isolated places over West Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over Himachal Pradesh; at many places over East Rajasthan; at a few places over Punjab & Tamilnadu & Puducherry; above normal (1.6°C to 3.0°C) at most places over Marathwada, Telengana, Haryana, Chandigarh & Delhi; at a few places over Gujarat, Madhya Maharashtra, Vidarbha, Konkan & Goa, Coastal Karnataka, Rayalaseema and Andaman & Nicobar Islands. T
- **The highest maximum temperature of 46.8°C** recorded at **Chandrapur** (Vidarbha) over the plains of the country.

Temperature Forecast:

- Maximum temperatures are likely to continue to remain in the range of 43-44°C over parts of Telangana, Rayalseema and Interior Maharashtra during next 3 days.
- No significant change in maximum temperatures over rest of the country during next 3 days.

5 Day Rainfall Forecast (Mid-day) 1st May 2018

| Met-Sub-Division | 01-May Today | 02May Wed | 03May Thu | 04May Fri | 05May Sat |
|------------------------------|-----------------|--------------|--------------|--------------|--------------|
| 1. Andaman & Nicobar Islands | FWS | SCT | SCT | SCT | SCT |
| 2. Arunachal Pradesh | FWS | SCT | ISOL | ISOL | SCT |
| 3. Assam & Meghalaya | FWS | SCT | SCT | SCT | FWS |
| 4. N. M. M. & T. | FWS | SCT | FWS | FWS | FWS |
| 5. S.H. West Bengal & Sikkim | FWS | FWS | FWS | FWS | FWS |
| 6. Gangetic West Bengal | FWS | FWS | FWS | ISOL | SCT |
| 7. Odisha | WS | FWS | WS | SCT | ISOL |
| 8. Jharkhand | SCT | SCT | FWS | ISOL | ISOL |
| 9. Bihar | ISOL | ISOL | ISOL | ISOL | ISOL |
| 10. East Uttar Pradesh | ISOL | SCT | ISOL | ISOL | ISOL |
| 11. West Uttar Pradesh | ISOL | SCT | ISOL | ISOL | ISOL |
| 12. Uttarakhand | SCT | WS | WS | SCT | ISOL |
| 13. Haryana, Chd & Delhi | ISOL | SCT | ISOL | ISOL | ISOL |
| 14. Punjab | ISOL | SCT | SCT | ISOL | ISOL |
| 15. Himachal Pradesh | ISOL | SCT | FWS | SCT | SCT |
| 16. Jammu & Kashmir | ISOL | SCT | FWS | SCT | FWS |
| 17. West Rajsthan | ISOL | ISOL | ISOL | DRY | DRY |
| 18. East Rajasthan | ISOL | ISOL | ISOL | DRY | DRY |
| 19. West Madhya Pradesh | ISOL | DRY | DRY | DRY | DRY |
| 20. East Madhya Pradesh | ISOL | ISOL | ISOL | ISOL | 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. Marathwada | DRY | DRY | DRY | DRY | ISOL |
| 26. Vidharbha | ISOL | DRY | DRY | DRY | DRY |
| 27. Chhattisgarh | ISOL | ISOL | ISOL | ISOL | DRY |
| 28. Coastal Andhra Pradesh | ISOL | ISOL | ISOL | ISOL | ISOL |
| 29. Telangana | ISOL | ISOL | ISOL | ISOL | ISOL |
| 30. Rayalaseema | ISOL | ISOL | ISOL | ISOL | ISOL |
| 31. Tamilnadu & Puducherry | ISOL | ISOL | ISOL | ISOL | ISOL |
| 32. Coastal Karnataka | ISOL | ISOL | ISOL | ISOL | ISOL |
| 33. North Interior Karnataka | DRY | DRY | ISOL | ISOL | ISOL |
| 34. South Interior Karnataka | SCT | ISOL | ISOL | SCT | SCT |
| 35. Kerala | SCT | SCT | SCT | SCT | SCT |
| 36. Lakshadweep | ISOL | 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

- **01 May (Day 1):** Thunderstorm accompanied with squall and hail very likely at isolated places over Jharkhand. Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal and Odisha. Thunderstorm accompanied with gusty winds very likely at isolated places over north Coastal Andhra Pradesh, Telangana, Rayalaseema, interior Tamilnadu, Kerala, South Interior Karnataka, Madhya Pradesh, south Chhattisgarh, Vidarbha, Sub Himalayan West Bengal & Sikkim, Bihar, Assam & Meghalaya, Mizoram, Tripura and Uttarakhand.
Heavy rain very likely at isolated places over Gangetic West Bengal, Odisha, south Assam & Meghalaya and Tripura.
Heat wave conditions very likely to prevail at many parts of West Rajasthan, some parts of East Rajasthan and Vidarbha, one or two pockets over West Madhya Pradesh, north Madhya Maharashtra and Marathwada.
Dust storm/ Thunderstorm at isolated places over Haryana, Chandigarh and Delhi, Punjab and Uttar Pradesh.
Thundersquall with wind speed reaching 45 Kmph occasionally are likely to occur along the coastal areas of West Bengal, Odisha and north Andhra Pradesh; and also over north Andaman Sea. Fishermen are advised to be cautious while venturing into the sea over these areas.
- **02 May (Day 2):** Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with squall very likely at isolated places over West Bengal & Sikkim, Odisha, Haryana, Chandigarh, Delhi, Punjab and Uttar Pradesh. Thunderstorm accompanied with gusty winds very likely at isolated places over north Coastal Andhra Pradesh, Telangana, Rayalaseema, interior Tamilnadu, Kerala, East Rajasthan, south Chhattisgarh, Bihar, Jharkhand, Assam & Meghalaya and Nagaland, Manipur, Mizoram and Tripura.
Heavy rain very likely at isolated places over Gangetic West Bengal, Odisha and south Assam & Meghalaya.
Heat wave conditions very likely to prevail at some parts of West Rajasthan; one or two pockets over East Rajasthan, West Madhya Pradesh, north Madhya Maharashtra, Marathwada and Vidarbha.
Dust storm/ Thunderstorm at isolated places over West Rajasthan.
Thundersquall with wind speed reaching 45 Kmph occasionally are likely to occur along the coastal areas of West Bengal, and Odisha.
Fishermen are advised to be cautious while venturing into the sea over these areas.
- **03 May (Day 3):** Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal, Jharkhand, Haryana, Chandigarh, Delhi, Punjab and Uttar Pradesh. Thunderstorm accompanied with gusty winds very likely at isolated places over north Coastal Andhra Pradesh and East Rajasthan.
Heavy rain very likely at isolated places over Odisha.
Heat wave conditions very likely to prevail at some parts of West Rajasthan; one or two pockets over East Rajasthan and Vidarbha.

Dust storm/ Thunderstorm at isolated places over West Rajasthan.

Thundersquall with wind speed reaching 45 Kmph occasionally are likely to occur along the coastal areas of West Bengal and Odisha.

Fishermen are advised to be cautious while venturing into the sea over these areas.

04 May (Day 4): Thunderstorm accompanied with gusty winds very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab and Haryana, Chandigarh & Delhi.

Heat wave conditions very likely to prevail at some parts of West Rajasthan; one or two pockets over Vidarbha.

- **05 May (Day 5):** Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir and Himachal Pradesh.

Thunderstorm accompanied with gusty winds very likely at isolated places over Kerala, South Interior Karnataka, Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi and West Bengal & Sikkim.

Heat wave conditions very likely to prevail at some parts of West Rajasthan; one or two pockets over Vidarbha.

Heat Wave warning and Advisory

Warning:

- Heat wave conditions very likely to prevail at many parts of West Rajasthan during next 24 hours and at some parts thereafter.
- Heat wave conditions very likely to prevail at some parts of East Rajasthan during next 24 hours and at one or two pockets during subsequent 48 hours.
- Heat wave conditions very likely to prevail at some parts of Vidarbha during next 24 hours and at one or two pockets thereafter.
- Heat wave conditions very likely to prevail one or two pockets over West Madhya Pradesh, north Madhya Maharashtra and Marathwada during next 48 hours.

Advisory:

- In view of expected heat wave conditions in above regions, 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.

Heavy Rainfall warning and Advisory

Warning:

- Heavy rain very likely at isolated places over Tripura during next 24 hours, over Gangetic West Bengal and south Assam & Meghalaya during next 48 hours and over Odisha during next 48 hours.

Advisory:

- In view of expected rain with isolated heavy rain in above region, provide adequate drainage in standing crops to avoid water stagnation. Avoid sowing of summer crops during heavy spells of rain. Postpone application of fertilizers and plant protection measures.

Thunderstorm accompanied with hail/ squall/ gusty winds

Warning:

- Thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir, Himachal Pradesh on 2nd, 3rd and 5th May and over Uttarakhand on 2nd & 3rd May.
- Thunderstorm accompanied with gusty winds very likely at isolated places over north Coastal Andhra Pradesh during next 3 days, over Telangana, Rayalaseema, interior Tamil Nadu, Kerala Assam & Meghalaya, Mizoram, Tripura Chhattisgarh, Bihar during next 2 days, over South Interior Karnataka on 2nd and 5th May, over Madhya Pradesh, south Vidarbha, Sub Himalayan West Bengal & Sikkim, and Uttarakhand on 1st May, over East Rajasthan on 2nd and 3rd May, over Jharkhand on 2nd May, over Jammu & Kashmir, Himachal Pradesh Uttarakhand on 4th, over Uttar Pradesh, Punjab and Haryana, Chandigarh & Delhi on 4th & 5th May and over West Bengal & Sikkim on 5th May.
- Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal on 1st & 3rd, over and Odisha on 1st & 2nd, over Haryana, Chandigarh, Delhi, Punjab and Uttar Pradesh on 2nd & 3rd over West Bengal & Sikkim on 2nd May.
- Duststorm/thunderstorm very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh during next 24 hours and thunderstorm accompanied with squall /gusty winds thereafter.
- Dust storm/ Thunderstorm at isolated places over West Rajasthan on 2nd and 3rd May.

Advisory:

- In view of expected thunderstorm accompanied with squall / gusty winds in Assam & Meghalaya, Mizoram, Tripura Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, provide 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 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 chemical spraying/dusting during the period.

- In view of thunderstorm accompanied with squall and hail over Jammu & Kashmir, Himachal Pradesh and Uttarakhand, 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.

Agromet Advisories for summer crops from different AMFUs in the country

Sate-wise Advisories

Jammu& Kashmir

- In Sub Tropical Zone, undertake sowing of moong and mash after receipt of rain. Complete harvesting and threshing of wheat, mustard and lentil crops. Undertake sowing of summer fodder crops like (maize + cowpea + charri) and bajra
- In Intermediate Zone, continue sowing of maize, okra and French bean. Complete transplanting of cucurbits and vegetables. Undertake harvesting of matured mustard.

Assam & Meghalaya, Arunachal Pradesh

- In Arunachal Pradesh, continue transplanting of seedlings of summer vegetables to main field from nursery. Continue transplanting Boro rice seedlings. Continue sowing of leguminous crops like cowpea, French bean, soybean, etc. at 2-3 rows across the slope of Jhum field at desirable intervals or ratios with rice to prevent soil erosion and conserve moisture and fertility. Undertake sowing of large cardamom in primary nursery bed. Provide adequate drainage and avoid water stagnation near the base of the plants in pea fields.
- In Lower Brahmaputra Valley Zone of Assam, continue land preparation and sowing of Bao rice varieties like Kekua Bao, Negheri Bao, Maguri, Panikekua, Panindra, Padmanath, etc. Continue planting of banana, cucumber and colocasia. Undertake land preparation and sowing of maize by selecting normal hybrids varieties like Ganga 11, Deccan 107, Deccan 109, Vivek 9 and Quality Protein Hybrid like HQPM-1 and normal Composite variety like NLD, Parbhat, Novjot, Pusa Comp 1 & 2 and Quality Protein composite like Shakti after current spells of heavy rain. Undertake planting of banana.
- In Upper Brahmaputra Valley Zone, continue planting of guava and papaya. Provide drainage to maize crop. Undertake ploughing of Sali rice fields.
- In the Barak Valley Zone, continue planting of banana suckers and lemon.
- In the Barak Valley Zone, to control the attack thrips in chilli crop, spray Rogor or Dimethoate @ 1.5 ml per litre of water. Gandhi bug attack may be seen in Boro rice at milk stage. For effective control of the pest, apply 5% Malathion dust @ 20 kg per ha of land after current spells of rain.

Rajasthan

- In Flood Prone Eastern Plain Zone, apply light and frequent irrigation in vegetable and fruit crops. Continue deep ploughing of field to destroy soil borne pests. Cover the tree sapling with thatching material to protect against heat waves. However ensure proper aeration. To control mosaic attack in okra, spray Malathion 50 EC @ 1.0 ml per litre water.

- In Semi Arid Eastern Plain Zone, undertake land preparation for the sowing of cotton (Varieties: Bikaneri Nerma (190-200 days), Ganganagar Ageti (170-180 days), RST-9 (185-200 days) & RG-8 (Desi, 170-180 days)).
- In Sub Humid Southern Plain and Aravalli Hill Zone, spray Malathion @ 2 ml or Thioron @ 1 ml per litre water to control stem and fruit borer in okra.

Odisha

- In Mid Central Table Land Zone, due to large variation in maximum and minimum temperature, blast disease may in rice, spray Tricyclazole @ 250g / 500 litres of water per ha after current spells of rain.
- In West Central Table Land Zone, maintain around 2-5 cm of water during panicle initiation stage for better panicle. Due to abrupt rise and fall in temperature, stem borer attack has been widely noticed. Use pheromone trap @20- 25 no. per hectare for monitoring the population. When pest population reaches above ETL level, apply Fipronil or Triazophos @ 2ml/litre water after current spells of rain. Undertake sowing of lady's finger (Varieties: A-4, Parbani Kranti , Arka Anamika. And Utkal Gourav @10-15 kilogram per acre).

Andhra Pradesh

- In Scarce Rainfall Zone of Rayalaseema, rice leaf folder incidence is observed in some parts of Anantapur district, spray Chlorpyrifos @2 ml/litre water.
- In Krishna Godavari Zone, maintain 5cm water level for effective grain filling in rice. Erect yellow sticky traps for whiteflies and blue sticky traps for thrips 20/acre for each pest to monitor vector population in green gram & black gram. To control thrips, spray Monocrotophos @ 320ml or Fipronil @ 300ml or Spinosad 60ml per acre.

Punjab

- In Undulating Plain Zone, avoid harvesting of matured wheat crop during 02-03 May. Keep already harvested produce in safe and dry place. Avoid irrigation in maize, moong and mash crop during next 48 due to possible thunderstorm and gusty wind.
- In Western Plain Zone, withhold cotton sowing during 24-48 hours as it may lead to crust formation /necessitating re-sowing in few cases.