

Advisory for DD Kisan dated 20.04.18

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

Significant Weather Features

- Fairly widespread to widespread precipitation associated with a Western disturbance is likely to continue over Western Himalayan region during next 24 hours. Isolated thunder-squalls and hailstorms are very likely over Western Himalayan region today. Isolated thunder-storms accompanied with squalls/ gusty winds are also likely over Haryana, Chandigarh & Delhi, north Rajasthan, Uttar Pradesh and Bihar today. Substantial reduction in rainfall is likely from tomorrow.
- Fairly widespread rain/thundershowers and gusty winds are likely to continue over northeast and adjoining eastern India during next 2 days.
- Isolated thunder-storms with gusty winds and occasional squalls & lightning are likely over parts of south peninsula during the forecast period.
- Yesterday, Heat wave conditions prevailed at one or two pockets over Saurashtra & Kutch and Vidarbha.

Realised Rainfall

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

- Rain/thundershowers at most places over Jammu & Kashmir and Nagaland, Manipur, Mizoram & Tripura; at many places over Himachal Pradesh and Assam & Meghalaya; at a few places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Coastal & South Interior Karnataka; at isolated places over Punjab and south Tamil Nadu.

Maximum temperature

- **Maximum temperature departures as on 19.04.2018:**
- Maximum temperatures were markedly above normal (5.1°C or more) at isolated places over Gujarat state; appreciably above normal (3.1°C to 5.0°C) at many places over Himachal Pradesh, and Uttarakhand; at isolated places over West Uttar Pradesh and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Vidarbha, Konkan & Goa and Rayalseema; at many places over Uttar Pradesh and West Rajasthan; at a few places over Punjab, Madhya Pradesh, Bihar, Jharkhand, Chhattisgarh, Odisha, Coastal Andhra Pradesh, Telangana and Madhya Maharashtra and at isolated places over Kerala and Tamilnadu & Puducherry.
- **The highest maximum temperature of 45.4°C** recorded at **Chandrapur** (Vidarbha) over the plains of the country.

Temperature Forecast:

- Day maximum temperatures are likely to remain above 40°C over central and Eastern India during next 2-3 days.
- No significant change in maximum temperatures likely over major parts of the country during next 2 days, outside northwest India & Gujarat where it is likely to fall by 2-3°C during next 24 hours.

5 Day Rainfall Forecast (Mid-day) 20th April 2018

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

- **20 April (Day 1):** Thunderstorm accompanied with squall and hail 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, north Rajasthan, West Bengal & Sikkim, Jharkhand, Odisha, Assam & Meghalaya, Manipur, Mizoram & Tripura, Telangana, Karnataka, north Coastal Andhra Pradesh, Tamil Nadu and Kerala.
Thunderstorm accompanied with squall very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and Bihar.
Heavy rain very likely at isolated places over Jammu & Kashmir, south Assam & Meghalaya and Mizoram & Tripura.
Heat wave conditions very likely in one or two pockets over Vidarbha.
Strong winds speed reaching 25-35 kmph gusting to 45 kmph with moderate to rough sea conditions are very likely along and off West Bengal Odisha coasts. Fishermen are advised to be cautious while venturing in to the sea along & off these coasts.
- **21 April (Day 2):** Thunderstorm accompanied with squall and hail very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.
Thunderstorm accompanied with squall very likely at isolated places over Jharkhand and Gangetic West Bengal.
Thunderstorm accompanied with gusty winds very likely at isolated places over Odisha, Assam & Meghalaya, Manipur, Mizoram, Tripura, south Chhattisgarh and Kerala.
Heavy rain very likely at isolated places over south Assam & Meghalaya and Mizoram & Tripura.
Strong winds speed occasionally reaching 40-50 kmph with moderate to rough sea conditions are very likely along and off West Bengal-Odisha coasts. Fishermen are advised not to venture into the Sea along & off these coasts.
Based on the forecast generated by INCOIS, moderate to rough sea conditions are very likely to prevail along the West coast of India and rough to very rough over southern parts of West Coast and Lakshadweep area in the morning hours. Fishermen are advised to be cautious while venturing into the Sea along & off these areas.
- **22 April (Day 3) :** Thunderstorm accompanied with squall and hail very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.
Thunderstorm accompanied with squall likely at isolated places over Gangetic West Bengal.
Thunderstorm accompanied with gusty winds likely at isolated places over Telangana, Tamil Nadu, interior Karnataka and Kerala.
Based on the forecast generated by INCOIS, moderate to rough sea conditions are very likely to prevail along & off the West coast of Andaman & Nicobar Islands. Fishermen are advised to be cautious while venturing into the Sea along & off these areas.
- **23 April (Day 4):** Heat wave conditions are likely to prevail in some parts of Jammu & Kashmir, Himachal Pradesh and Uttarakhand.
Based on the forecast generated by INCOIS, rough to very rough sea conditions are likely to prevail along & off the West coast of Andaman & Nicobar Islands. Fishermen are advised not to venture into the Sea along & off these areas.

- **24 April (Day 5):** Thunderstorm accompanied with gusty winds likely at isolated places over Telangana.
Heat wave conditions are likely to prevail in some parts of Jammu & Kashmir Himachal Pradesh and Uttarakhand.

Heavy Rainfall warning and Advisory

Warning:

- Heavy rain very likely at isolated places over Jammu & Kashmir during next 24 hours and over south Assam & Meghalaya and Mizoram & Tripura during next 48 hours.

Advisory:

- In view of expected rain with isolated heavy rain in above regions, 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 Jammu & Kashmir, Himachal Pradesh and Uttarakhand during next 24 hours and over Sub-Himalayan West Bengal & Sikkim on 21st and 22nd April.
- Thunderstorm accompanied with gusty winds very likely at isolated places over Uttar Pradesh, north Rajasthan, West Bengal & Sikkim, Jharkhand, Karnataka, north Coastal Andhra Pradesh, Tamil Nadu and Kerala on 20th April, Odisha, Assam & Meghalaya, Manipur, Mizoram & Tripura on 20 and 21st April, over Telangana, on 20th, 21st & 24th April, over south Chhattisgarh and Kerala on 21st, Tamil Nadu, interior Karnataka and Kerala on 22nd April.
- Thunderstorm accompanied with squall very likely at isolated places over Punjab, Haryana, Chandigarh & Delhi and Bihar on 20th April, over Gangetic West Bengal on 21st & 22nd over Jharkhand on 21st April.

Advisory:

- 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 thunderstorm accompanied with squall and hail over Sub-Himalayan West Bengal & Sikkim, 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.

Heat Wave warning and Advisory

Warning:

- Heat wave conditions very likely in one or two pockets over Vidarbha during next 24 hours and over some parts of Jammu & Kashmir, Himachal Pradesh and Uttarakhand on 23rd and 24th April.

Advisory:

- In view of expected heat wave conditions in Vidarbha, 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

Jammu & Kashmir

- In Sub Tropical Zone, continue land preparation for sowing of moong and mash. Continue harvesting and threshing of wheat, mustard and lentil crops after current spells of rain. Keep harvested produce at safer places.
- In Intermediate Zone, undertake sowing of maize, okra and French bean and transplanting of cucurbits and vegetables after current spells of heavy rains.
- Continue transplanting of tomato, brinjal, chilli, sweet pepper in well prepared land in clear weather in Valley Temperate Zone.

Uttarakhand

- In Sub Humid Sub Tropic Zone, continue harvesting of chilli and brinjal in clear weather. Keep harvested produce at safe place.
- In mid and high hills of Bhabar and Tarai Zone, continue sowing of barnyard millet and French bean in clear weather. Continue transplanting of brinjal, chilli and capsicum in valley.

Uttar Pradesh

- In Allahabad district of Central Plain Zone, continue harvesting of matured wheat. Apply irrigation in vegetables.
- In Varanasi district of Central Plain Zone, continue intercultural operations in cucurbit crops. Continue harvesting of matured barley and wheat. Continue sowing of okra.

Rajasthan

- In Sub Humid Southern Plain and Aravalli Hill Zone, complete harvesting of matured wheat and barley. Apply irrigation in summer groundnut and vegetables.
- In Bikaner district of Arid Western Plain Zone, continue harvesting of late sown wheat. In Jodhpur district undertake land preparation for sowing of cotton.

Odisha

- In West Central Table Land Zone, due to increase in temperature, there are chances of stem borer attack in rice, spray Friponil /Triazophos @ 2 ml/liter of water if pest population is beyond ETL of the pest.
- In Eastern Ghat High Land Zone, maintain water level up to 5cm summer rice crop at panicle initiation stage.
- In Northeastern Coastal Plain Zone, in rice maintain water depth upto the base of the crop followed by weeding when the crop is around 3-4 leaf stage.

Bihar

- In North West Alluvial Plain Zone, continue sowing of summer maize (varieties : Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4). Continue sowing of green gram and black gram. Undertake sowing of vegetables like lady's finger, pumpkin, cucumber, sponge gourd etc.
- In North East Alluvial Zone, continue sowing of summer vegetables such as okra, pumpkin, cucumber, sponge gourd ridge gourd and bitter gourd.

Jharkhand

- In Western Plateau Zone, complete harvesting of wheat crop in clear weather and keep it at safer places. Undertake intercultural operations in summer moong. Maintain proper water level in transplanted rice and broadcast Urea after 25-30 days of transplanting.
- In South Eastern Plateau Zone, undertake sowing of summer green gram to utilize available soil moisture. Select improved variety SML- 668 at a seed rate of 12 kg per acre

West Bengal

- In the New Alluvial Zone, prepare seed bed for planting jute. Undertake sowing of green gram.
- In the Hill Zone, continue planting of healthy rhizomes of ginger and turmeric. Avoid irrigation to wheat crop.
- In the Coastal saline Zone, continue harvesting of early transplanted Boro rice @ 80% of maturity to avoid shattering due to Norwesters.
- In the Old Alluvial Zone, undertake planting of turmeric rhizomes.

Gujarat

- In South Gujarat Heavy Rainfall Zone, maintain water level of 2-3 cm in transplanted rice field.
- In North Gujarat Zone, carry out intercultural operations in groundnut, pearl millet, green gram, cowpea and vegetable crops. Apply irrigation in standing crops at regular intervals.
- In North Saurashtra Zone, apply irrigation in mango orchard. Apply light irrigation in groundnut at flowering stage.

Madhya Pradesh

- In Jhabua Hill Zone, apply irrigation in green gram, black gram and summer vegetables.
- In Grid Zone, continue sowing of green gram.
- In Vindhya Plateau Zone, apply irrigation in green gram and black gram.

- In Satpura Plateau Zone, maintain optimum moisture in cucurbitaceous crops by applying light and frequent irrigation. Apply mulch (plastic) to reduce evapotranspiration rate. Apply irrigation in vegetables and orchards.
- Continue harvesting of matured wheat in Kymore Plateau and Satpura Hill Zone. Continue sowing of cucurbits, summer moong and urad.

Chhattisgarh

- In North Hill Zone, apply irrigation in summer moong, rice, sugarcane and fruit (mango, litchi) crops as per soil moisture condition.
- In Bastar Plateau Zone, continue sowing of sweet corn (NS- 680 or Suger-75) crop.

Kerala

- In the High Altitude Zone, undertake planting of vegetables like Bhindi, Bitter gourd, Amaranthus, etc. if irrigation facility is available.
- In the Northern Zone, harvest mangoes before ripening. Protect black pepper plants from direct sunlight.

Andhra Pradesh

- In the Southern Zone, undertake sowing of groundnut crop after seed treatment with Imidachloprid 600 F.S. @ 2 ml + 4 ml water per kg of seeds.
- In the Krishna Godavari Zone, maintain 5cm water from panicle initiation to grain hardening stage in paddy crop. Crop should not face water stress at panicle initiation, flowering and milk stages. Continue harvesting sorghum and rice-fallow maize crops.
- In the North Coastal Zone, Spray Propiconazole @ 1.0 ml/litre for whip smut and Chloripyriphos @ 2.5 ml. / litre for early shoot borer in sugarcane crop.

Tamil Nadu

- In the Cauvery Delta Zone, continue harvesting of rice fallow black gram. Carry out sowing of black gram in chitrai pattam under summer irrigated conditions. Provide irrigation to sesame, sugarcane and rice fallow cotton crops.
- In the North Western Zone, provide irrigation to agricultural and horticultural crop once in 5 days.
- In the Western Zone, provide staking to five months or older banana plants. Irrigate coconut and banana plantations according to the soil moisture.

Maharashtra

- As heat wave condition is expected on 20th April, apply light and frequent irrigation to summer crops, vegetables and orchards. Protect the animals from heat. Keep good aeration in animal shed. For protection of poultry birds from heat, hang curtains around the poultry shed and sprinkle it with water. Apply layer of grass or gunny bags on the roof of poultry shed and sprinkle water on it. Provide fresh and cool drinking water for the poultry birds and chicks.
- In Konkan, continue harvesting of early maturing rice and matured groundnut.
- In Madhya Maharashtra, apply irrigation to summer crops, vegetables and fruits crops as per requirement. Irrigation should be given during evening hours. To control jassids and thrips in groundnut, spray Thiamethoxam @ 4 g or Dimethoate @ 14 ml per 10 liters of water. Apply irrigation only by sprinkler system.

- In Marathwada, undertake harvesting of matured summer sunflower. Apply irrigation to summer maize, vegetables and mango orchard. Also apply mulch to preserve soil moisture.
- In Vidarbha, heat wave condition at one or two pockets is expected during next 24 hours, apply light and frequent irrigation to summer crops, vegetables and orchards. 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