

Advisory for DD Kisan dated 04.06.19

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

Significant Weather Features

- The Northern Limit of Monsoon (NLM) passes through Lat. 6°N/Long. 60°E, Lat. 6°N/Long. 70°E, Lat. 6°N/Long. 81°E, Lat. 10°N/Long. 86°E, Lat. 13°N/Long. 89°E and Lat. 17°N/Long. 95°E.
- Cross equatorial flow over southern parts of South Arabian Sea (to the south of 10° N) and over the Bay of Bengal is likely to increase gradually favoring further advance of southwest monsoon over some more parts of South Arabian sea, Maldives-Comorin area, southwest, southeast and central Bay of Bengal during next 24 hours.
- An east-west shear zone at 3.1 km above mean sea level is very likely to develop across extreme south peninsula from tomorrow onwards leading to favourable conditions for onset of Southwest Monsoon over Kerala during the subsequent 72 hours.
- Heat wave to severe heat wave conditions very likely to continue to prevail over Rajasthan, Madhya Pradesh and Vidarbha during next 48 hours and decrease in intensity thereafter. Heat wave conditions very likely to continue to prevail over south Haryana during next 3 days.
- Fairly widespread rainfall with isolated heavy to very heavy falls very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.

Realised Weather

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

- **Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at most places over Jammu & Kashmir, Assam & Meghalaya, Himachal Pradesh and Nagaland, Manipur, Mizoram & Tripura; at many places over Uttarakhand and Arunachal Pradesh; at a few places over Kerala and Andaman & Nicobar Islands and at isolated places over Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Vidarbha, Telangana, Coastal Andhra Pradesh, North Interior Karnataka and Tamilnadu & Puducherry.
- **Thunderstorm observed (from 1730 hours IST of yesterday to 0830 hours IST of today):** at a few places over Jammu & Kashmir; at isolated places over Uttarakhand, Himachal Pradesh, Jharkhand, North Interior Karnataka, Coastal Andhra Pradesh, Telangana, south Madhya Maharashtra and Kerala.

- Yesterday's Severe Heat Wave conditions observed in many parts over West Rajasthan and at isolated pockets over Madhya Pradesh & East Rajasthan. Heat wave conditions observed at many places over Vidarbha and East Rajasthan; over some parts of Madhya Pradesh and at isolated pockets over West Rajasthan.
- **Maximum temperature departures as on 03-06-2019:** Maximum temperatures were markedly above normal (5.1°C or more) at most places over West Rajasthan; at many places over East Rajasthan; at a few places over West Madhya Pradesh; at isolated places over East Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Marathwada and Vidarbha; at isolated places over Telangana and South Interior Karnataka.
- **Yesterday, the highest maximum temperature of 50.3°C** was recorded at **Churu** (West Rajasthan).

Weather Forecast for next 5 days upto 0830 hours IST 9th June 2019

- Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- Maximum temperatures are likely to remain above normal by 2-3°C over some parts of south peninsula during next 48 hours. No significant change in maximum temperatures likely over rest of the country during next 48 hours.

Table 1

5 Day Rainfall Forecast (MID-DAY)**04-June-2019**

Met-Sub-Division	04-Jun Today	05-Jun Wed	06-Jun Thu	07-Jun Fri	08-Jun Sat
1. Andaman & Nicobar Islands	SCT	SCT	FWS	FWS	FWS
2. Arunachal Pradesh	SCT	SCT	FWS	FWS	FWS
3. Assam & Meghalaya	FWS	FWS	FWS	WS	WS
4. N. M. M. & T.	FWS	FWS	FWS	WS	WS
5. S.H. West Bengal & Sikkim	SCT	SCT	SCT	FWS	FWS
6. Gangetic West Bengal	SCT	FWS	WS	FWS	FWS
7. Odisha	ISOL	ISOL	SCT	FWS	FWS
8. Jharkhand	ISOL	SCT	SCT	SCT	ISOL
9. Bihar	ISOL	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	DRY
11. West Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	DRY
12. Uttarakhand	SCT	SCT	SCT	ISOL	ISOL
13. Haryana, Chd & Delhi	SCT	ISOL	ISOL	DRY	DRY
14. Punjab	ISOL	ISOL	ISOL	DRY	DRY
15. Himachal Pradesh	FWS	FWS	FWS	ISOL	ISOL
16. Jammu & Kashmir	WS	FWS	FWS	SCT	ISOL
17. West Rajasthan	ISOL	ISOL	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	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	ISOL	ISOL	ISOL	ISOL	ISOL
24. Madhya Maharashtra	ISOL	ISOL	ISOL	ISOL	ISOL
25. Marathawada	ISOL	ISOL	ISOL	ISOL	ISOL
26. Vidharbha	ISOL	ISOL	DRY	DRY	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	ISOL	ISOL	SCT	SCT	SCT
31. T.N., Puducherry & Karaikal	ISOL	ISOL	SCT	ISOL	ISOL
32. Coastal Karnataka	ISOL	ISOL	SCT	SCT	FWS
33. North Interior Karnataka	SCT	SCT	ISOL	SCT	SCT
34. South Interior Karnataka	SCT	FWS	FWS	FWS	FWS
35. Kerala & Mahe	FWS	FWS	FWS	FWS	WS
36. Lakshadweep	FWS	WS	WS	WS	WS

% 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

Heat wave

4 June (Day 1)	Heat Wave conditions in most parts with severe heat wave in some pockets very likely over West Rajasthan and with severe heat wave at isolated pockets very likely over East Rajasthan; in many parts with severe heat wave in isolated pockets over Madhya Pradesh and Vidarbha. Heat Wave conditions in isolated pockets over South Haryana, Marathwada and Telangana
5 June (Day 2)	Heat Wave conditions in many parts with severe heat wave in isolated pockets very likely over Rajasthan, Madhya Pradesh and Vidarbha. Heat Wave conditions in isolated pockets over South Haryana, Marathwada and Telangana.
6 June (Day 3)	Heat Wave conditions in many parts with severe heat wave at isolated pockets very likely over East Rajasthan and Madhya Pradesh; in some parts with severe heat wave in isolated pockets very likely over West Rajasthan. Heat Wave conditions in many parts likely over Vidarbha and at isolated pockets over South Haryana, Marathwada, Chhattisgarh and Telangana.
7 June (Day 4)	Heat Wave conditions in many parts likely over Vidarbha; in some parts over Madhya Pradesh and Rajasthan and in isolated pockets over Chhattisgarh, Marathwada and Telangana.
8 June (Day 5)	Heat Wave conditions in many parts likely over Vidarbha; in some parts over Madhya Pradesh and Rajasthan and in isolated pockets over Chhattisgarh, Marathwada and Telangana

Advisory for Heat Wave

In above regions, apply light and frequent irrigation to the standing crops to cope up with the excess evaporative demand due to high temperature; undertake mulching with straw to conserve soil moisture. Provide shade for protection of young fruit plants from scorching sun.

Thunderstorm/Dust storm accompanied with lightning gusty winds

4 June (Day 1)	Thunderstorm accompanied with lightning and gusty winds (40-50 kmph) at isolated places very likely over Rayalaseema and Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Telangana, Vidarbha, Chhattisgarh, Interior Karnataka and Kerala. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, Punjab, West Uttar Pradesh and West Rajasthan.
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5 June (Day 2)	Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over Rayalaseema and Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh, Telangana, Vidarbha, Chhattisgarh, Interior Karnataka and Kerala. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.
6 June (Day 3)	Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over Rayalaseema, Kerala and Tamilnadu & Puducherry; with gusty winds (30-40 kmph) at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Coastal Andhra Pradesh, Chhattisgarh and South Interior Karnataka. Thunderstorm/Duststorm accompanied with gusty winds (30-40 kmph) at isolated places very likely over Haryana, Chandigarh & Delhi, Punjab and West Uttar Pradesh.
7 June (Day 4)	Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over North Interior Karnataka and Kerala & Mahe; with gusty winds (30-40 kmph) at isolated places over Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh and Chhattisgarh and thunderstorm accompanied with lighting at isolated places over Odisha.
8 June (Day 5)	Thunderstorm accompanied with lighting and gusty winds (40-50 kmph) at isolated places very likely over North Interior Karnataka; with gusty winds (30-40 kmph) at isolated places over Bihar, Jharkhand, West Bengal & Sikkim, Coastal Andhra Pradesh and Chhattisgarh and thunderstorm accompanied with lighting at isolated places over Odisha.

Advisory for Thunderstorm

- In the above regions, provide mechanical support to young fruit plants, banana and staking in vegetables to prevent the crops from lodging due to strong winds. Undertake propping in sugarcane, provide mechanical support to young fruit plants, banana 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 strong / squally / gusty winds.

Heavy rainfall

4 June (Day 1)	Heavy to Very heavy rainfall at isolated places very likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.
5 June (Day 2)	Heavy rainfall at isolated places very likely over Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. ♦

6 June (Day 3)	Heavy rainfall at isolated places very likely over Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.
7 June (Day 4)	Heavy to Very heavy rainfall at isolated places likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heavy rainfall at isolated places likely over Kerala, South Interior Karnataka and Odisha.
8 June (Day 5)	Heavy to Very heavy rainfall at isolated places likely over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya. Heavy rainfall at isolated places likely over Arunachal Pradesh, Odisha, Kerala, South Interior Karnataka and Lakshadweep.

Advisory for Heavy rainfall

- In above regions, postpone irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields. Keep harvested produce at safer places.

State-wise Advisories

Jammu & Kashmir, Himachal Pradesh

- In Valley region of the state undertake harvesting of oilseeds and green manure crops. Rice Nurseries are to be covered with shade net to avoid desiccation under bright sunlight especially on southern slopes. Mulching of soil under excess heat conditions to be applied in the form of polythene, stones etc. in the rice nurseries.
- In Jammu Division undertake nursery sowing of rice. Continue sowing of turmeric. Maintain optimum moisture level under dry bed condition and submerge the wet bed with shallow level of water for proper establishment and growth of nursery.
- In Himachal Pradesh undertake sowing of green manure crop where harvesting of rabi crop is over. For green manuring cluster bean, daincha, senai, lobia etc. may be sown and ensure proper moisture for proper germination and growth of the crop.

Assam, Arunachal Pradesh, Meghalaya, Mizoram and Nagaland,

- In Assam undertake nursery bed preparation of *Sali* rice.
- In Lower Bramhaputra Valley Zone undertake undertake harvesting of Foxtail millet
- In North Bank Plain Zone of Assam & Central Bramhaputra Valley Zone continue harvesting of Boro rice.
- In Arunachal Pradesh provide proper drainage in Jhum rice due to heavy rains. Continue transplanting of rice may be done in well puddled WRC field.

- In Meghalaya, continue sowing of Ginger and Turmeric and sowing of Cucurbits (Cucumber/Pumpkin /Bottle Gourd/ Ash Gourd/Squash).
- In Mizoram undertake sowing of maize. Provide proper drainage in jhum rice and keep the surrounding clean/ weed free to avoid disease/pest harboring.
- In Nagaland over-irrigation can also induce excessive vegetative vigor in plum orchids and reduce fruit size. Proper drainage should be made in and around the orchard.

Haryana, Punjab and New Delhi

- In Haryana and Punjab undertake sowing of rice nurseries. Due to prevailing high temperatures irrigation may be provided to cotton crop sown in second week of April.
- In Punjab undertake mulching with paddy straw or rice husk or sugarcane trash @ 20-25 q/acre between the rows of sugarcane to reduce soil temperature and moisture loss. Carry out soil moisture conserving intercultural operations time to time in pulses.
- In Delhi, in view prevailing high temperature, provide frequent irrigation in vegetables, nurseries of vegetables, fodder crops and orchards. Protect vegetables nurseries and orchards against hot winds by physical barrier.

Madhya Pradesh and Chhattisgarh

- In Chhattisgarh, continue land preparation for sowing of long duration rice. Due to prevailing hot and dry winds banana and papaya fruits are being damaged because of scorching heat. Cover the fruits by using leaves or Jute bags to protect the fruits from scorching heat. Provide wind breaks in west/north-west direction to protect the plants from heat wave.
- In Madhya Pradesh, due to prevailing high temperatures irrigate summer greengram, blackgram, okra & cucurbitaceous vegetables.
- In Bundelkhand region undertake nursery sowing of rice with assured irrigation.
- In Satpura plateau zone field operation like weeding, intercultural, earthing, plant protection and irrigation may be done in sugarcane crop to avoid moisture stress condition.

Gujarat

- In South Gujarat Heavy rainfall zone undertake land preparation/Nursery sowing of kharif rice and planting of Elephant foot Yam and Greater Yam.
- In South Gujarat Zone, undertake mulching with dry leaves of sugarcane in between two row of sugarcane to control of evaporation.
- In Saurashtra & Kutch, continue land preparation for sowing of irrigated hybrid cotton and B.T. cotton, groundnut, sesame, pulses and pearl millet. Undertake sowing of groundnut crop with assured irrigation.

Rajasthan

- In Arid Plain zone, continue land preparation for sowing of groundnut, for green fodder jowar/bajra mixed with guar.
- In Irrigated North Western Plain Zone continue sowing of BT cotton and normal cotton and nursery preparation of rice
- In Semi Arid Eastern Plain Zone continue sowing of irrigated cotton, land preparation for sowing of irrigated groundnut, and nursery planting of kharif onion.
- In Sub Humid Southern Plain and Aravali Hill Zone, undertake field preparation for sowing of BT cotton.

Odisha

- Taking advantage of realized rainfall complete sowing of jute.
- In North Central Plateau Zone, continue sowing green manuring crops like dhaincha and cowpea. Complete planting of turmeric & ginger by 1st week of June.

Maharashtra

- In Konkan region undertake nursery sowing of nagli. Undertake sowing of groundnut. Undertake nursery sowing kharif rice with assured irrigation facilities.
- In Madhya Maharashtra, to minimize evapotranspiration, spray 8% kaolin in orchards. Continue nursery bed preparation for kharif rice.
- In Marathwada, undertake land preparation for sowing of kharif crops like cotton, pigeon pea, black gram and groundnut.
- In East Vidarbha, continue harvesting of rice and groundnut.
- In West Vidarbha continue harvesting of groundnut, apply mulching in orchards, undertake land preparation for sowing of pigeon pea.

Tamilnadu, Karnataka and Kerala

- In Tamilnadu to control Thrips in rice nursery, spray Phosphomidon 40 SL 1 ml/litre or Chlorpyrifos 20 EC @ 2ml/litre
- In Cauvery Delta Zone in Tamilnadu, continue land preparation for nursery sowing of rice for kuruvai season.
- In Kerala, after completion of harvesting of Puncta rice to enhance the fertility of soil sow cowpea@60kg/ha in areas. Continue land preparation / sowing of Virippu rice.
- In Southern Transition Zone of Karnataka, undertake harvesting of Paddy.
- In North Transition Zone of Karnataka irrigate the sugarcane crop in alternate rows and put dried leaves of sugarcane as mulch in non irrigated rows.
- In Coastal zone of Karnataka undertake harvesting of groundnut.

Bihar and Jharkhand

- In Bihar, complete harvesting of maize, black gram and green gram. Undertake land preparation for sowing of onion and nursery sowing of rice crop. Continue planting of turmeric.
- In Jharkhand continue sowing of ginger and turmeric. Mulching with straw and leaves may be done in sown fields of ginger and turmeric to maintain optimum soil moisture.

West Bengal

- In Northern Hill zone, in large cardamom mulching should be done to conserve soil moisture and to control weeds.
- In Coastal Saline Zone, continue sowing of green manure crops like cluster bean, daincha etc. after harvesting of boro rice in order to fertilize the field and conserve moisture.
- In New Alluvial Zone, continue sowing of Olitorius jute. Undertake sowing of green gram and cluster bean for green manure.

Andhra Pradesh and Telangana

- In North Coastal Andhra Pradesh continue sowing of sesame by utilizing the realized rainfall.
- In South Coastal Andhra Pradesh and Rayalaseema due to prevailing high temperatures. frequent irrigation may be provided to groundnut which is in flowering stage should give and to control sucking pests spray Monocrotophos @ 1.6 ml./Litre of water.
- In Southern Telangana undertake land preparation for timely sowing of rained crops

New Alluvial Zone