

### Advisory for DD Kisan dated 31.05.19

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

### Significant Weather Features

- **As per 2<sup>nd</sup> Stage Long Range Forecast update for the 2019 Southwest Monsoon, rainfall over the country as a whole for the 2019 Southwest Monsoon season (June-September) is most likely to be normal (96% to 104%) of long period average (LPA).** Quantitatively, Monsoon season rainfall for the country as a whole is likely to be 96% of the LPA with a model error of  $\pm 4\%$ . Region wise, the season rainfall is likely to be 94% of the LPA over Northwest India, 100% of LPA over Central India, 97% of LPA over South Peninsula and 91% of LPA over North-East India all with a model error of  $\pm 8\%$ . The monthly rainfall over the country as a whole is likely to be 95% of its LPA during July and 99% of LPA during August both with a model error of  $\pm 9\%$ . The current weak El-Nino conditions over Pacific are likely to continue during the monsoon season with some possibility of these conditions to turn to neutral ENSO conditions during the latter part of the monsoon season.
- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 5°N/Long. 75°E, Lat. 5°N/Long. 80°E, Lat. 10°N/Long. 87°E, Lat. 13°N/Long. 90°E and Lat. 16°N/Long. 94.5°E. Conditions are becoming favourable for further advance of Southwest Monsoon into extreme southern parts of Arabian Sea, some more parts of Maldiva-Comorin Area, southwest, southeast and eastcentral Bay of Bengal during next 72 hours.

### Realised Weather

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

- **Rain/Thundershowers observed (from 0830 hours IST Yesterday to 0830 hours IST of today):** at most places over Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; at many places over Tamilnadu & Puducherry; at a few places over Gangetic West Bengal & Sikkim, Bihar, Arunachal Pradesh, Kerala and South Interior Karnataka and at isolated places over Rajasthan, East Madhya Pradesh and Vidarbha.
- **Thunderstorms observed (from 1730 hours IST of yesterday to 0830 hours IST of today):** at isolated places over Rajasthan, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Tamilnadu & Puducherry and Kerala.
- Yesterday, **Heat Wave Conditions** were observed in some parts with **Severe Heat wave** in isolated pockets over East Uttar Pradesh and West Rajasthan; Heat wave conditions in many

parts over Vidarbha; in some parts over West Madhya Pradesh and in isolated pockets over Haryana, Chandigarh & Delhi, East Rajasthan, West Uttar Pradesh and East Madhya Pradesh.

- **Maximum temperature departures as on 30-05-2019:** Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Haryana, Chandigarh & Delhi, West Rajasthan, Uttarkhand and North Interior Karnataka; at isolated places over Rayalaseema and South Interior Karnataka; appreciably above normal (3.1°C to 5.0°C) at most places over Punjab, West Uttar Pradesh and Jharkhand; at many places over Jammu & Kashmir, Himachal Pradesh, East Uttar Pradesh, West Madhya Pradesh, Marathwada, Vidarbha and Nagaland, Manipur, Mizoram & Tripura; at a few places over Bihar, Madhya Maharashtra, Coastal Karnataka and Lakshadweep; at isolated places over Gangetic West Bengal, Gujarat Region, Telangana, Kerala and Tamil Nadu & Puducherry.
- Yesterday, the **highest maximum temperature of 48.2°C** was recorded at **Banda** (East Uttar Pradesh).

#### **Weather Forecast for next 5 days upto 0830 hours IST 5<sup>th</sup> June 2019**

- Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- Maximum temperatures are very likely to rise gradually by 2-3°C over major parts of northwest India during 48 hours. They are likely to remain above normal by 2-3°C over some parts of south peninsula during next 3 days. No significant change in maximum temperatures likely over rest of the country during next 24 hours.

Table 1

**5 Day Rainfall Forecast (MID-DAY)**  
**31-May-2019**

Met-Sub-Division	31-May Today	01Jun Sat	02Jun Sun	03Jun Mon	04Jun Tue
1. Andaman & Nicobar Islands	WS	WS	FWS	FWS	FWS
2. Arunachal Pradesh	FWS	SCT	FWS	FWS	FWS
3. Assam & Meghalaya	FWS	FWS	WS	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	ISOL	SCT	FWS	SCT	ISOL
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	SCT	ISOL	ISOL
9. Bihar	ISOL	SCT	SCT	ISOL	ISOL
10. East Uttar Pradesh	DRY	ISOL	ISOL	ISOL	ISOL
11. West Uttar Pradesh	DRY	DRY	ISOL	ISOL	ISOL
12. Uttarakhand	DRY	DRY	ISOL	FWS	SCT
13. Haryana, Chd & Delhi	DRY	DRY	ISOL	ISOL	ISOL
14. Punjab	DRY	DRY	ISOL	ISOL	ISOL
15. Himachal Pradesh	DRY	ISOL	ISOL	FWS	SCT
16. Jammu & Kashmir	ISOL	ISOL	SCT	FWS	FWS
17. West Rajasthan	DRY	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	ISOL	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	DRY	DRY	ISOL	DRY	DRY
25. Marathwada	DRY	ISOL	ISOL	DRY	ISOL
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	ISOL	SCT	SCT	ISOL	ISOL
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	SCT
32. Coastal Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
33. North Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	FWS	FWS	SCT	SCT	ISOL
35. Kerala	SCT	SCT	SCT	SCT	FWS
36. Lakshadweep	SCT	SCT	ISOL	SCT	FWS

**% Station Reporting Rainfall**

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
53-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

## Weather Warning

### Heat wave

31 May (Day 1)	<b>Heat Wave</b> in most parts with <b>severe heat</b> wave conditions in some parts very likely over West Rajasthan. <b>Heat Wave</b> conditions in many parts with severe heat wave in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh and Vidarbha and <b>Heat Wave</b> conditions in some parts with severe heat wave in isolated pockets very likely over Uttar Pradesh and East Rajasthan. Heat wave conditions in some parts very likely over Jharkhand; in isolated pockets over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Chhattisgarh, Madhya Maharashtra, Marathwada, Telangana and North Interior Karnataka.
1 June (Day 2)	<b>Heat Wave</b> in most parts with <b>severe heat wave</b> conditions in some parts very likely over West Rajasthan. Heat Wave conditions in many parts with severe heat wave in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi and Madhya Pradesh and Heat Wave conditions in some parts with severe heat wave in isolated pockets very likely over Vidarbha, Uttar Pradesh and East Rajasthan. Heat wave conditions in isolated pockets over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Chhattisgarh, Marathwada, Telangana, Jharkhand and North Interior Karnataka.
2 June (Day 3)	<b>Heat Wave</b> in most parts with <b>severe heat</b> wave conditions in some parts very likely over West Rajasthan. <b>Heat Wave</b> conditions in some parts with severe heat wave in isolated pockets very likely over East Rajasthan. Heat wave conditions in many parts over Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh; in some parts over Vidarbha and in isolated pockets over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Chhattisgarh, Telangana, Jharkhand and North Interior Karnataka.
3 June (Day 4)	<b>Heat wave</b> conditions in many parts over West Rajasthan; in some parts over East Rajasthan, Madhya Pradesh, Vidarbha and in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and Telangana.
04 June (Day 5)	<b>Heat wave conditions</b> in many parts over West Rajasthan; in some parts over East Rajasthan, Madhya Pradesh, Vidarbha and in isolated pockets over Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh 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; undertakemulching 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, squall**

31 May (Day 1)	<p><b>Thunderstorm &amp; lightning accompanied with gusty winds (40-50 kmph)</b> at isolated places over East Madhya Pradesh and Vidarbha; with <b>gusty winds (30-40 kmph)</b> at isolated places over West Bengal &amp; Sikkim, Odisha, Bihar, Jharkhand, Chhattisgarh, Tamilnadu &amp; Puducherry, Kerala, Coastal Andhra Pradesh, Telangana and North Interior Karnataka.</p> <p><b>Strong wind with speed reaching 40-50 kmph</b> very likely to prevail over southwest Arabian Sea, southwest Bay of Bengal, Andaman Sea and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into this area.</p>
1 June (Day 2)	<p><b>Thunderstorm &amp; lightning accompanied with gusty winds (30-40 kmph)</b> at isolated places over Sub-Himalayan West Bengal &amp; Sikkim, Odisha, Bihar, Jharkhand, Chhattisgarh, Vidarbha, Tamilnadu &amp; Puducherry, Coastal Andhra Pradesh, Telangana and Rayalaseema.</p> <p><b>Strong wind with speed reaching 40-50 kmph</b> very likely to prevail over southwest Arabian Sea, southwest Bay of Bengal, Andaman Sea and adjoining southeast Bay of Bengal. Fishermen are advised not to venture into this area</p>
2 June (Day 3)	<p><b>Thunderstorm accompanied with squall (50-60 kmph)</b> at isolated places very likely over Gangetic West Bengal; <b>Thunderstorm &amp; lightning accompanied with gusty winds (40-50 kmph)</b> at isolated places over Rayalaseema and Tamilnadu &amp; Puducherry; with <b>gusty winds (30-40 kmph)</b> at isolated places over Jammu &amp; Kashmir, Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal &amp; Sikkim, Odisha, Bihar, Jharkhand, Chhattisgarh, Vidarbha and Coastal Andhra Pradesh.</p> <p><b>Thunderstorm/Duststorm accompanied with squall (50-60 kmph)</b> at isolated places very likely over East Uttar Pradesh; with <b>gusty winds (40-50 kmph)</b> at isolated places very likely over Haryana, Chandigarh &amp; Delhi and West Uttar Pradesh; with gusty winds (30-40 kmph) at isolated places very likely over Punjab.</p>
3 June (Day 4)	<p><b>Thunderstorm &amp; lightning accompanied with gusty winds (30-40 kmph)</b> at isolated places over Jammu &amp; Kashmir, Himachal Pradesh, Uttarakhand, West Bengal &amp; Sikkim, Odisha, Bihar, Jharkhand, Chhattisgarh and Vidarbha.</p> <p><b>Thunderstorm/Duststorm accompanied with squall (50-60 kmph)</b> at isolated places very likely over East Uttar Pradesh; with <b>gusty winds (40-50 kmph)</b> at isolated places very likely over Haryana, Chandigarh &amp; Delhi and West Uttar Pradesh; with <b>gusty winds (30-40 kmph)</b> at isolated places very likely over Punjab.</p>
04 June (Day 5)	<p><b>Thunderstorm &amp; lightning accompanied with gusty winds (30-40 kmph)</b> at isolated places likely over Jammu &amp; Kashmir, Himachal Pradesh, Uttarakhand, West Bengal &amp; Sikkim, Odisha, Chhattisgarh and Vidarbha.</p> <p><b>Thunderstorm/Duststorm accompanied with gusty winds (40-50 kmph)</b> at isolated places likely over Haryana, Chandigarh &amp; Delhi; with gusty winds (30-40 kmph) at isolated places likely over Punjab.</p>

## Advisory for Thunderstorm and Squall

- 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. Postpone application of plant protection measures and fertilizers to the standing crops during strong / squally / gusty winds.

## Heavy rainfall

31 May (Day 1)	<b>Heavy rainfall</b> at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala and Andaman & Nicobar Islands
1 June (Day 2)	<b>Heavy rainfall</b> at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka and Andaman & Nicobar Islands.
2 June (Day 3)	<b>Heavy rainfall</b> at isolated places very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu & Puducherry.
3 June (Day 4)	<b>Heavy to very heavy rainfall</b> at isolated places likely over Nagaland, Manipur, Mizoram & Tripura and heavy rainfall at isolated places over Assam & Meghalaya.
04 June (Day 5)	<b>Heavy to very heavy rainfall</b> at isolated places likely over Nagaland, Manipur, Mizoram & Tripura and heavy rainfall at isolated places over Assam & Meghalaya

## 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 Intermediate Zone and Valley Temperate Zone of Jammu & Kashmir, continue nursery sowing of rice.
- In Sub Tropical Zone, continue land preparation for sowing of rice nursery, undertake planting of ginger.

### Assam, Arunachal Pradesh, Meghalaya, Mizoram and Nagaland,

- In North Bank Plain Zone Of Assam, undertake land preparation for sowing of Sali rice and undertake harvesting of boro rice.

- In Hill zone of Assam, undertake sowing of cotton.
- In Upper Brahmaputra Valley Zone, Central Brahmaputra Valley Zone and Barak Valley Zone of Assam, continue nursery bed preparation of *Sali* rice and land preparation/sowing of Summer Bottle gourd.
- In Nagaland, continue transplanting of Naga king chili.
- In Himachal Pradesh, undertake transplanting of nursery of summer vegetables like Tomato, Capsicum, Gourd, Chilli etc. in the well prepared fields. Undertake sowing of Bhindi, Arvi etc.
- In Manipur, complete nursery sowing of kharif rice and undertake land preparation for transplanting of kharif rice. Undertake sowing of kharif maize, soybean/ groundnut, black gram in clear weather.

### **Haryana, Punjab and New Delhi**

- In Haryana continue sowing of cotton and summer vegetables.
- In Western Zone and Undulating Plain Zone of Punjab, undertake sowing of nursery rice.
- In Central Plain zone of Punjab continue nursery sowing of rice.
- In Delhi, continue sowing of cotton, field preparation for sowing of pigeonpea.
- In Punjab, complete sowing of summer moong, summer mash, cowpea and cucurbits. Undertake transplanting of vegetables (tomato, chilli, brinjal). Complete sowing of cotton including Bt cotton or desi Cotton and planting of turmeric. Undertake field preparation for nursery sowing of rice.

### **Madhya Pradesh and Chhattisgarh**

- In Chhattisgarh Plain Zone undertake land preparation for sowing of kharif rice. In maize if stem borer attack is observed, then apply Carbofuran @2-3 grain per plant.
- In Jhabua Hills Zone of Madhya Pradesh, continue harvesting of green gram, black gram and groundnut, continue land preparation/ sowing of ginger and turmeric.
- In Bastar Plateau Zone undertake sowing sunhemp or deacha for green manure
- In Northern hill zone of Chhattisgarh, continue land preparation of nursery sowing of long duration rice.

### **Gujarat**

- In North Gujarat Zone of Gujarat, undertake land preparation for sowing of BT Cotton, undertake harvesting of ground nut, pearl millet and green gram.
- In Middle Gujarat, undertake harvesting of matured bajra and green gram crops.
- In North Gujarat, Continue land preparation for sowing of irrigated hybrid cotton and B.T. cotton crop. Complete harvesting of matured green gram crop. Continue picking of matured pods /fruits of vegetable crops.
- In Saurashtra & Kutch, Continue land preparation for sowing of irrigated hybrid cotton and B.T. cotton crop. Keep inputs ready for sowing of cotton, groundnut, sesame, pulses and pearl millet crops. Undertake sowing of groundnut crop with irrigation facility. Complete harvesting of green gram, black gram and sesame crops.

## Rajasthan

- In Arid Plain zone, undertake land preparation for sowing of groundnut.
- 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

- In North Central Plateau Zone, undertake sowing green manuring crops like dhaincha and cowpea, sowing of maize for green cob purpose. Complete planting of Turmeric & Ginger by 1st week of June

## Maharashtra

- In Konkan region Undertake land preparation for nagli. Undertake sowing of Okra on ridges and furrows and gourd vegetables on soil mounts. continue nursery bed preparation for kharif rice.
- In Madhya Maharashtra, Continue land preparation in harvested crop fields, to control stem borer in sugarcane, spray Chlorantraniliprole 18.5% S.C. @ 3 to 4 ml per 10 liter of water.
- In Marathwada, undertake land preparation for kharif crops like cotton, pigeon pea, black gram and groundnut.
- In Vidarbha, continue harvesting of groundnut. Apply mulching in orchards, provide shade for protection of young fruit plants from scorching sun.

## Tamilnadu, Karnataka and Kerala

- In Cauvery Delta Zone in Tamilnadu continue land preparation for nursery sowing of rice for kuruvai season.
- In Western Zone, complete pickings of summer irrigated cotton.
- In Kerala, continue harvesting of matured Puncha rice. Undertake land preparation for sowing of Virippu rice and start sowing of direct sown paddy crop.
- In Southern Transition Zone of Karnataka, continue sowing of ginger and turmeric.
- In South Interior Karnataka, continue land preparation for sowing of pulses like cowpea, green gram, black gram, horse gram, field bean etc and undertake sowing of these crops where sufficient rains received.

## Bihar and Jharkhand

- In Bihar, complete harvesting of maize, black gram and green gram crops. Undertake land preparation for sowing of onion and nursery sowing of rice crop. Continue planting of turmeric.

- In Jharkhand, complete harvesting/threshing of rice. Continue land preparation for sowing of early vegetables (long gourd, round gourd, bitter guard, sponge gourd, ridge gourd, cucumber and cowpea), ginger and turmeric.

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### West Bengal

- In Coastal Saline Zone, continue sowing of green manure crop 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.