

Advisory for DD Kisan dated 19.06.18

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

Significant Weather Features

- Monsoon circulation is likely to improve from around 24th June with (i) expected movement of active phase of Madden Julian Oscillation (MJO) to west Equatorial Indian Ocean and adjoining Arabian Sea during next 2-3 days and (ii) development of cyclonic circulations of eastern India leading to strengthening of easterlies winds over Gangetic plains. As a result, the Southwest Monsoon is likely to further advance over remaining parts of Assam, some more parts over Maharashtra, Chhattisgarh, Odisha, West Bengal and some parts over Jharkhand, Bihar and Madhya Pradesh between 23 to 25th June.
- The Northern Limit of Monsoon continues to pass through Lat. 19°N/ Long. 60°E, Lat. 19°N/ Long. 70°E, Thane (including Mumbai), Ahmednagar, Buldhana, Amravati, Gondia, Titlagarh, Cuttack, Midnapore, Lat. 24°N/ Long. 89°E, Goalpara, Baghdogra and Lat. 27°N/ Long. 87°E.

Realised Rainfall

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

- Rain/thundershowers observed at most places over Jammu & Kashmir, Konkan & Goa, Coastal & North Interior Karnataka and Andaman & Nicobar Islands; at many places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; at a few places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, East Madhya Pradesh, Jharkhand, Chhattisgarh, Madhya Maharashtra and Vidarbha; at a few places over Uttar Pradesh, Rajasthan, Bihar, Gangetic West Bengal, Saurashtra & Kutch, Marathwada, South Interior Karnataka, Telangana, Coastal Andhra Pradesh and Tamilnadu & Puducherry.

Maximum temperature

- **Maximum temperature departures as on 18.06.2018:**
- Maximum temperatures were markedly above normal (5.1°C or more) at most places over Gangetic West Bengal; at a few places over Odisha, Jharkhand and north Coastal Andhra Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Chhattisgarh; at a few places over East Uttar Pradesh and Bihar and above normal (1.6°C to 3.0°C) at most places over south Coastal Andhra Pradesh; at many places over Rayalaseema; at a few places over Gujarat, Vidarbha, Telangana and Madhya Pradesh; at isolated places over Tamilnadu & Puducherry and Kerala.
- The Highest maximum temperature of **43.5°C** recorded at **Fatehgarh** (West Uttar Pradesh) over plains of the country.

Temperature Forecast:

- No significant change in maximum temperatures are very likely over most parts of the country during next 48 hours and fall by 2-3° C over east and adjoining central India thereafter.

5 Day Rainfall Forecast (Mid-day) 19th June 2018

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

% Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Many Places)	26-50	Scattered (SCT) A Few Places
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

Weather Warning

- 19 June (Day 1):** Heavy to very heavy rain at isolated places very likely over Konkan & Goa and heavy at isolated places over Kerala, Coastal Karnataka, Madhya Maharashtra and Andaman & Nicobar Islands.

Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over east Bihar, West Bengal & Sikkim, Andhra Pradesh, Rayalaseema, Telangana and Tamil Nadu & Puducherry.

Heat wave conditions are very likely at one or two pockets over east Bihar, Jharkhand, Gangetic West Bengal, Odisha and Coastal Andhra Pradesh.

- 20 June (Day 2):** Heavy to very heavy rain at isolated places very likely over Konkan & Goa and heavy at isolated places over Kerala, Coastal Karnataka, Madhya Maharashtra, Assam & Meghalaya and Andaman & Nicobar Islands.

Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over east Bihar, West Bengal & Sikkim, Andhra Pradesh, Rayalaseema, Telangana and Tamilnadu & Puducherry.

Heat wave conditions are very likely at one or two pockets over east Bihar, Jharkhand, Gangetic West Bengal, Odisha and Coastal Andhra Pradesh.

- **21 June (Day 3):** Heavy rain at a few places with very heavy and extremely heavy falls at isolated places very likely over Konkan & Goa; heavy to very heavy at Isolated places over Assam & Meghalaya and heavy at isolated places over Arunachal Pradesh, Madhya Maharashtra, Marathwada, Coastal Karnataka and Kerala.
- **22 June (Day 4):** Heavy to very heavy at Isolated places over Assam & Meghalaya and Konkan & Goa; heavy rain very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Marathwada, Coastal Karnataka and Kerala.
- **23 June (Day 5):** Heavy rain very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Konkan & Goa, Coastal Karnataka and Kerala.

Salient Advisories

- Continue transplanting of *Viruppu* rice in **Kerala**. Continue nursery sowing for Sali rice in **Assam**, sowing of normal sown WRC in **Meghalaya** after the current spells of heavy rain. Continue nursery bed preparation for *kharif* rice in **Konkan** after current spells of heavy rain. In **Coastal Karnataka**, continue nursery raising of rice after current spells of heavy rain and undertake main field preparation for transplanting of rice. Continue sowing of cow pea, groundnut, green gram and black gram in **South Interior Karnataka**. In **North Interior Karnataka**, undertake sowing of soybean, green gram, black gram (DU-1, DBGV-5), red gram (TS-3R), groundnut (G 2-52, GPBD-4, GPBD -5 (rainfed), HD-86, TAG-24 (irrigated) and maize (Arjun, GH-0727) crops where sufficient rainfall is received. In **Andhra Pradesh**, continue land preparation for rainfed crops viz., pulses, ragi, groundnut and green manure crops. Keep the seed ready for sowing and take up sowings of rainfed crops after receipt of sufficient rain. In **Telangana**, continue land preparation for sowing of *kharif* crops and undertake sowing of rainfed crops like soybean, jowar, maize, redgram, greengram, cotton etc., after receiving cumulative rainfall of 50-60 mm in light soils and 60-75 mm in heavy soils or the soil should be wet up to 15-20 cm depth. In Madhya Maharashtra, complete preparatory tillage operations and undertake sowing of *kharif* crops like cotton, tur and soybean after receipt of sufficient rain. In **Marathwada**, complete preparatory tillage and undertake sowing of *kharif* soybean, sorghum bajra and planting of adsali sugarcane after receipt of sufficient rain.

Thunderstorm accompanied with Gusty winds

- Thunderstorm accompanied with gusty winds and lightning very likely at isolated places over east Bihar, West Bengal & Sikkim, Andhra Pradesh, Rayalaseema, Telangana and Tamilnadu & Puducherry during next 48 hours.

Advisory:

- In view of expected thunderstorm accompanied with gusty winds with lightning in above regions, 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.
- Farmers are advised not to work in the field and keep cattle in shed during thunderstorm and lightning period.

Heavy Rainfall warning and Advisory

Warning:

- Heavy to very heavy rain at isolated places very likely over Konkan & Goa during next 48 hours & on 22nd and heavy rain at a few places with very heavy and extremely heavy falls at isolated places on 21st and isolated heavy rain on 23rd June.
- Heavy rain at isolated places over Assam & Meghalaya on 20th & 23rd and heavy to very heavy at isolated places on 21st and 22nd June.
- Heavy rain at isolated places over Kerala and Coastal Karnataka during next 5 days, over Madhya Maharashtra and Andaman & Nicobar Islands during next 2-3 days.
- Heavy rain very likely at isolated places over Arunachal Pradesh on 21st, 22nd and 23rd June, over Marathwada on 21st and 22nd June & over Sub-Himalayan West Bengal & Sikkim on 22nd and 23rd June.

Advisory:

- In view of realized rainfall and expected isolated heavy /very heavy rain over Assam & Meghalaya, Konkan & Goa, Coastal Karnataka and Kerala avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Drain out excess water from rice nursery /vegetable fields in Konkan & Goa, Assam & Meghalaya and Coastal Karnataka and avoid sowing of rice in nursery.

Agromet Advisories for *Kharif* crops from different AMFUs in the country

Sate-wise Advisories

Kerala

- Continue transplanting of *Viruppu* rice and planting of vegetables. Continue planting of coconut saplings, ginger and turmeric. Undertake planting of seedlings of cucurbits like bitter gourd, snakegourd at 4-5 leaf stage. Undertake main field planting of cardamom.

Andhra Pradesh

- In Scarce Rainfall Zone of Rayalaseema, take up sowing of rainfed crops only after receiving cumulative rainfall of 50 mm. In *kharif* season, select high yielding varieties of groundnut like K 6, K 9, Dharani, Kadiri, Chitravani and Amaravathi, high yielding varieties of red gram like LRG 41, PRG 176 and LRG 52 and for castor choose high yielding varieties like Kranthi, Haritha, Jwala, PCH 111 and DCH 157 for sowing. For sowing of cotton choose high yielding varieties / Bt hybrids of cotton and take up sowing only after receiving cumulative rainfall of more than 50 mm.

Tamil Nadu

- Undertake sowing rice in nursery for kuruvai season (varieties, viz., ADT 36, ADT 43, ADT 45 and ADT 47 suitable for kuruvai season).

Karnataka

- In Coastal Karnataka, drain out excess water from crop fields. Continue nursery raising of rice after spells of heavy rain; undertake main field preparation for transplanting of rice.
- In Southern Dry Zone, taking advantage of realised rainfall, undertake sowing of ragi (Indaf-8, MR-1, PR-202, GPU-28,L-5 And KMR-301) , jowar (CSH-5, CSH.-9, CSV-4.), maize (Ganga-11, Decon-101, Vijaya Composit, N.A.C-6002, N.A.C-6004, Nithyashree, N.A.H-1137) and pulses like Avare, cowpea etc.

Assam

- In Upper Brahmaputra Valley Zone, continue main field preparation for Sali rice. Undertake field preparation for sowing seasmum. Drain out excess water from the field.
- In North Bank Plain Zone, undertake nursery bed preparation/sowing Sali rice (Varieties: Ranjit, Gitesh, Pankaj, Bahadur, Kushal, Piolee etc.) in nursery bed in June, undertake sowing of Kharif maize (normal hybrids like Ganga 11, Deccan 107, Deccan 109, Vivek 9 and quality protein hybrid like HQPM-1)

Jharkhand

- In Western Plateau Zone, undertake land preparation for sowing of kharif crops. For direct seeding of rice, select short duration varieties like Birsa Dhan - 108, Birsa Vikas Dhan 109, 110 &111, Vandana etc. Use 40 kg of seeds for one acre. For sowing of maize (Medium duration variety : Suwan composite-1, H.Q.P.M.-1, Ganga Safed-5, Vinay, Shaktiman -1 for green cobs and short duration varieties: Birsa Maize-1, Birsa Vikas Maize-2, Priya etc. for grain purpose) , arhar (pigeon pea) (Varieties : Birsa Arhar-1, B.R.-65, Upas-120 and Bahar), Urd (varieties : Birsa Urad-1, T.-9, Pant U-19, Pant U-35, and Pant U-40) and for soybean (Varieties: J.S. - 335, Birsa Safed Soybean-2, Birsa Soybean - 1, R.A.U.S. - 5, R. K. S. -18 etc.) may be selected.

Maharashtra

- As rain/thundershowers would occur at most/many places over Konkan during the period along with heavy to very heavy rain at isolated places during next 4-5 days, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops. Drain out excess water from rice nursery, vegetable fields and orchards to avoid water stagnation.
- In South Konkan, undertake main filed preparation for transplanting of rice. Continue land preparation for sowing of groundnut (varieties: Konkan Gaurav, Trombay Konkan (Tapora), TAG-26, TAG-24 and TPG-41).
- In Madhya Maharashtra, complete preparatory tillage operations and undertake sowing of *kharif* crops like cotton, tur and soybean after receipt of sufficient rain. Complete nursery sowing of rice on raised bed for *kharif* rice and finger millet.

- In Marathwada, complete preparatory tillage and undertake sowing of kharif soybean, sorghum bajra, turmeric and adsali sugarcane after receipt of sufficient rain. Continue sowing of *kharif* vegetables like brinjal, chilli and tomato in raised nursery beds.
- In Vidarbha, prepare rice nurse beds at 1.2 x 4.0 m size for rice nursery on uplands field. Undertake field preparation for sowing of pigeon pea (varieties-AKT-8811, PKV-TARA, BSMR-853, BSMR-736 and ICPL-87119 (Aasha), before sowing seeds should be treated with crop specific Rhizobium culture and Phosphate Solubilizing Bacteria.

Jammu & Kashmir

- In Intermediate Zone, undertake sowing of maize and utilizing rainfall received during past few days, undertake main field preparation for rice transplanting where seedlings are approaching near 4-6 leaf stage.

Rajasthan

- In Flood Prone Eastern Plain Zone, undertake field preparation for timely sowing of bajra and jowar.
- In Arid Western Plain Zone, undertake land preparation for sowing bajra, mung, sesame and moth bean.
- In Sub Humid Southern Plain and Aravali Hill Zone, undertake field preparation for *kharif* crops. (maize: Arawali maize-1, Pratap maize-3, Pratap maize-5 and Bio-9637, soybean: P. K.-472, J. S.-335, Pratap soya-1 and Pratap soya-2.)