



# *National Agromet Advisory Service Bulletin*

*Friday 25<sup>th</sup> May 2018*  
*(For the period 25<sup>th</sup> to 30<sup>th</sup> May 2018)*



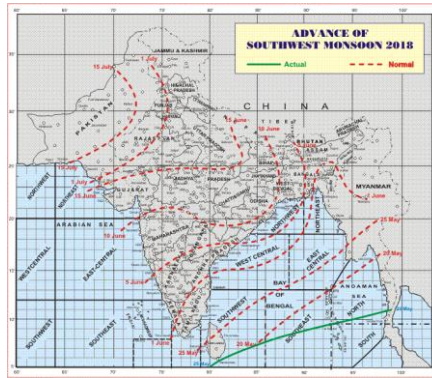
*Issued by*  
*India Meteorological Department*

**Weblink For**

District AAS Bulletin: <http://www.imdagrimet.gov.in/node/3545>

State Composite AAS Bulletin: <http://www.imdagrimet.gov.in/node/3544>

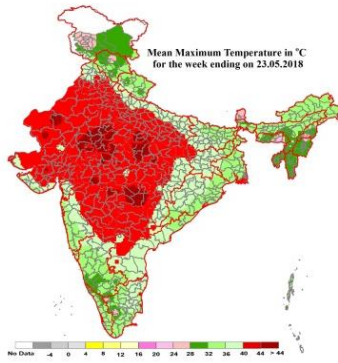
## South West Monsoon 2018



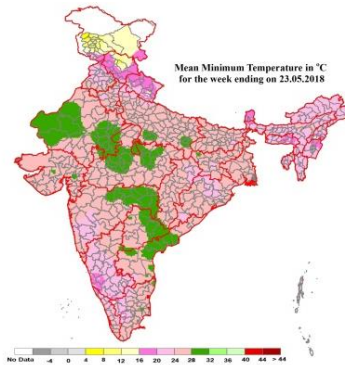
- Southwest Monsoon has advanced into South Andaman Sea, some parts of South Bay of Bengal and Nicobar Islands. Conditions are favorable for further advance of Southwest Monsoon into some parts of South Arabian Sea, Comorin/Maldives areas; some more parts of South Bay of Bengal, Andaman Sea and Andaman & Nicobar Islands during next 48 hours. Conditions are very likely to become favorable for further advance of Southwest Monsoon into some more parts of South Arabian Sea, Lakshadweep, Comorin area, South Kerala, South Tamilnadu, some more parts of south Bay of Bengal, remaining parts of Andaman Sea and some parts of eastcentral Bay of Bengal during subsequent 48 hours.

### Spatial distribution of weather parameters for the week ending 23.05.2018

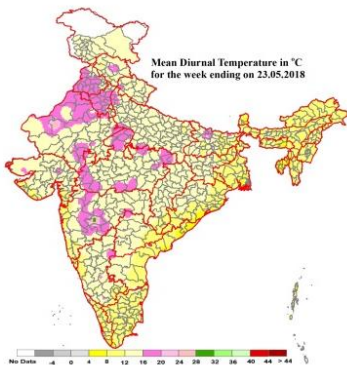
**Mean Maximum Temperature (°C) for the week ending 23.05.2018**



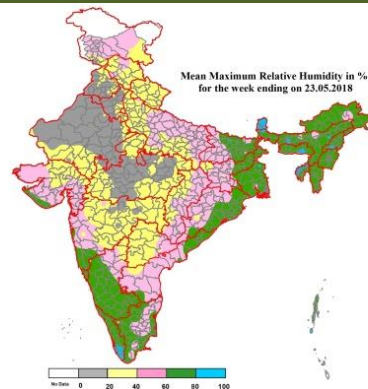
**Mean Minimum Temperature (°C) for the week ending 23.05.2018**

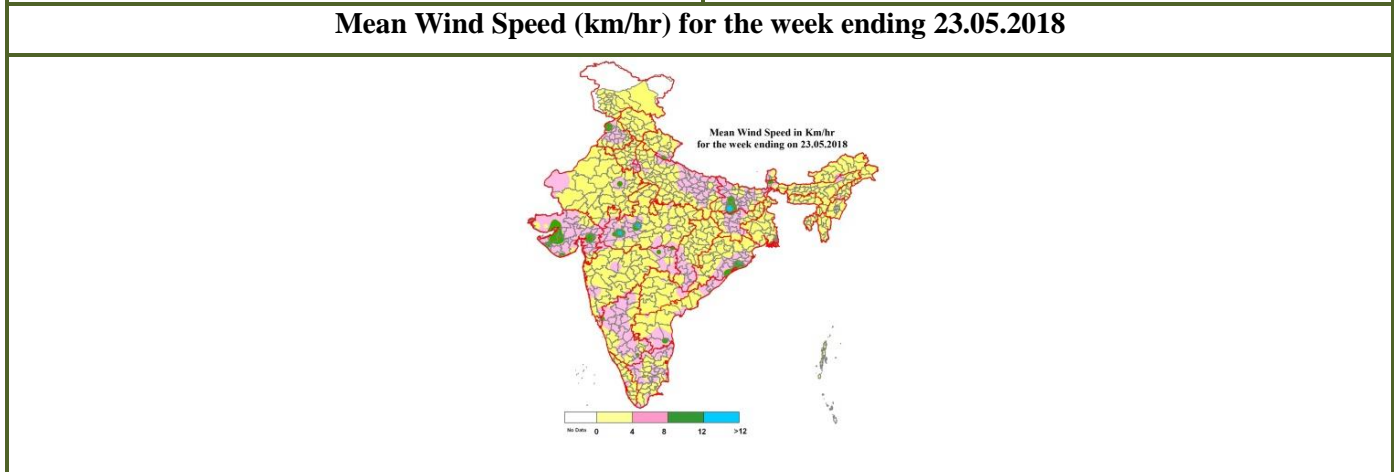
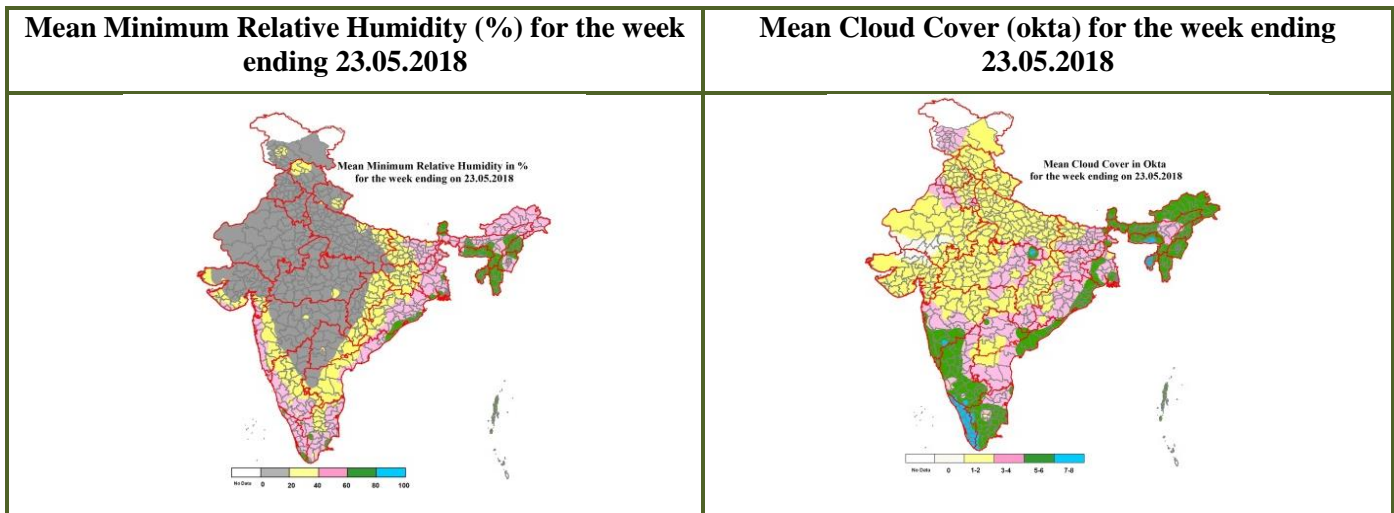


**Mean Diurnal Temperature Variation (°C) for the week ending 23.05.2018**

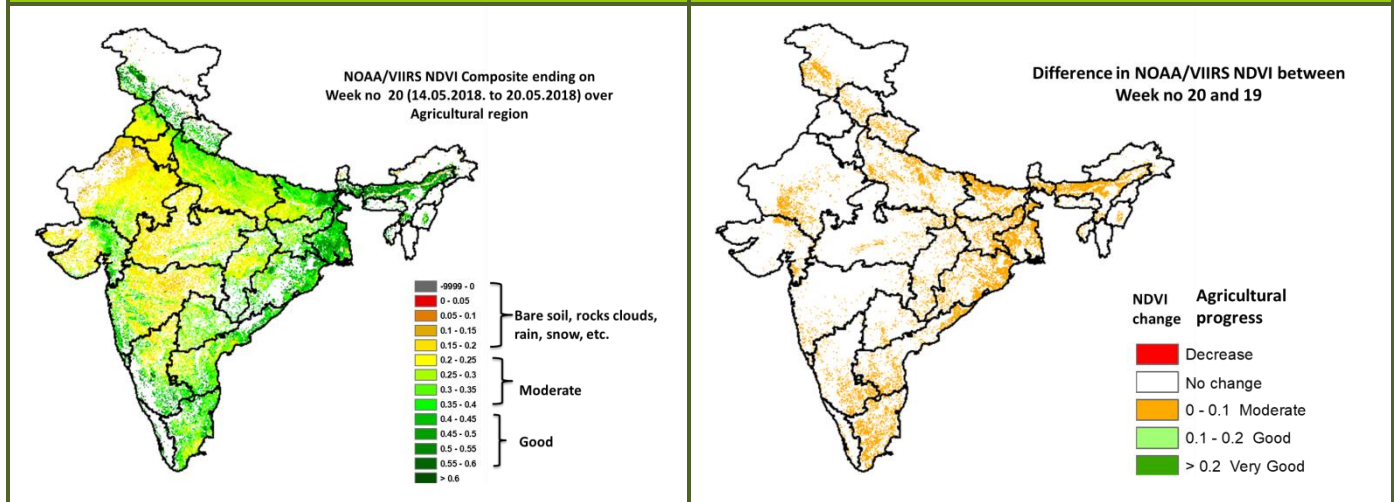


**Mean Maximum Relative Humidity (%) for the week ending 23.05.2018**



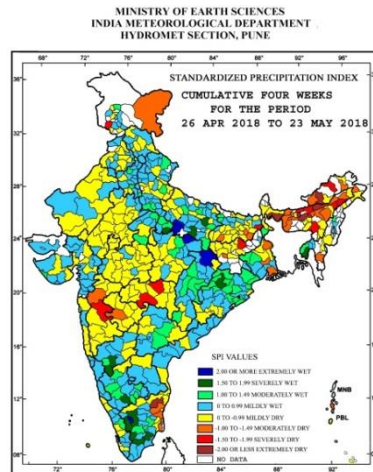


<p><b>NOAA/VIIRS NDVI composite ending on 20<sup>th</sup> May 2018 over Agricultural regions of India</b></p>	<p><b>Difference in NOAA/VIIRS NDVI between 13<sup>th</sup> May and 20<sup>th</sup> May 2018</b></p>
---	--



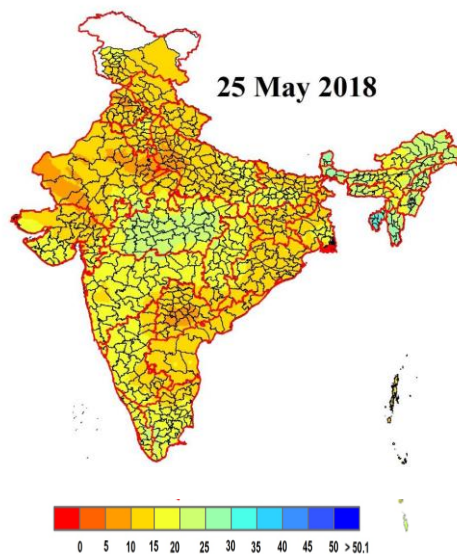
- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Agriculture vigour is good over West Bengal and adjoining Assam and moderate over Indo-gangetic plains, East coast and Western coast of Maharashtra, some parts of Gujarat, parts of Tamil Nadu, Coastal Andhra Pradesh and Odisha and Telangana.</li> </ul> | <ul style="list-style-type: none"> <li>• Moderate progress of agricultural vigour was observed over many parts of the country.</li> </ul> |
|---|---|

## Standardised Precipitation Index Cumulative 4 weeks for the period 26<sup>th</sup> April to 23<sup>rd</sup> May 2018

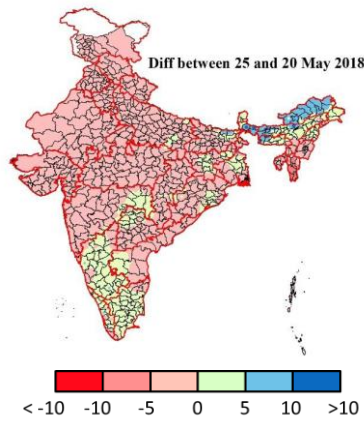
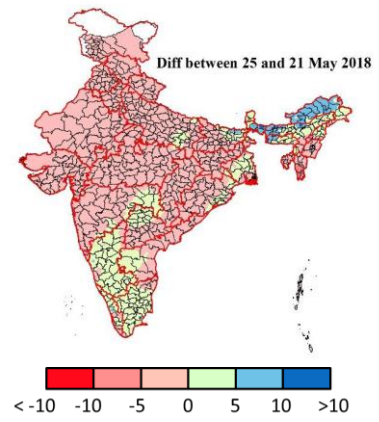
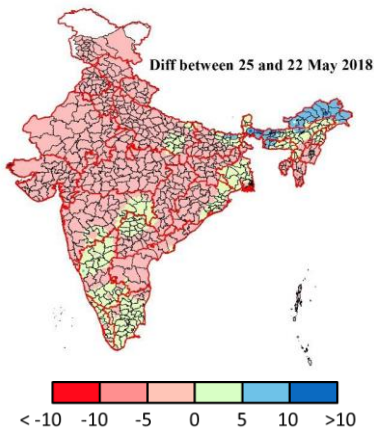
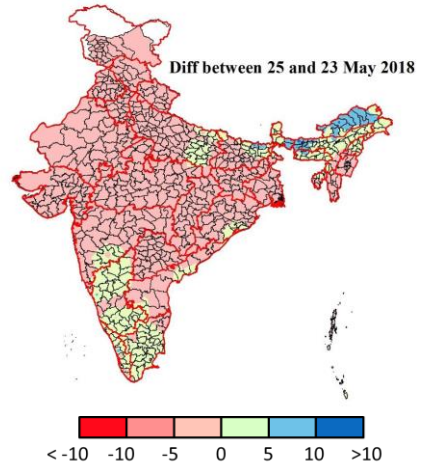
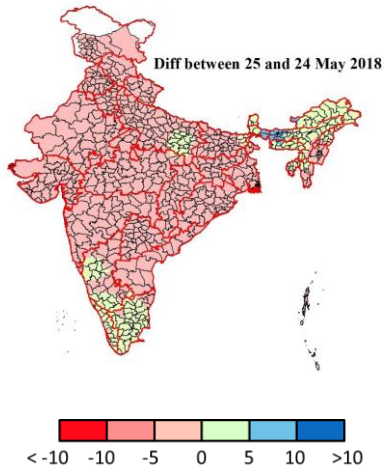


- Extremely/severely wet conditions experienced in South Tripura district of Tripura; Sambalpur district of Odisha; Allahabad, Azamgarh, Banda, Fatehpur, Mahoba districts of Uttar Pradesh; Rewa district of Madhya Pradesh; Surguja district of Chhattisgarh; Coimbatore, Erode, Sivaganga, Theni, Virudhunagar, Tirupur districts of Tamil Nadu & Puducherry; Gadag, Haveri, Mandya districts of Karnataka.
- Extremely/Severely dry conditions experienced few districts of Arunachal Pradesh; Assam; Jaintia Hills district of Meghalaya; Cooch Behar district of West Bengal; Giridih district of Jharkhand; Katihar district of Bihar; Rajouri district of Jammu & Kashmir; Ahmednagar, Nagpur, Yeotmal districts of Maharashtra; Tiruvannamalai, district of Tamil Nadu & Puducherry.
- Moderately dry conditions experienced in few districts of Arunachal Pradesh; Assam; West Garo Hills district of Meghalaya; Lunglei district of Mizoram; Hooghly, Howrah, Murshidabad districts of West Bengal; Lohardaga district of Jharkhand; Banka, Monghyr districts of Bihar; Ladakh (Leh) district of Jammu & Kashmir; Nashik, Beed districts of Maharashtra; Cuddalore, Nagapattinam, Tiruvarur, Viluppuram districts of Tamil Nadu & Puducherry.
- Rest of the country experienced moderately wet/mildly dry/mildly wet conditions.

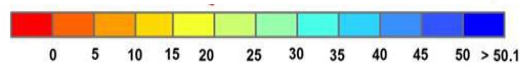
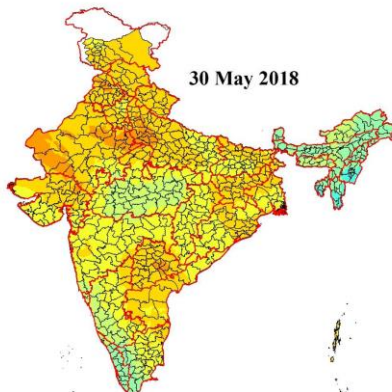
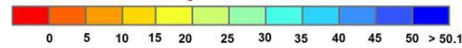
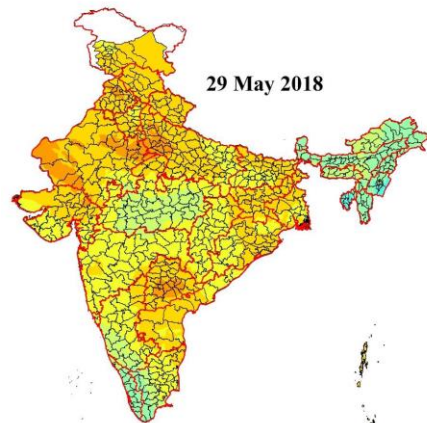
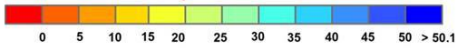
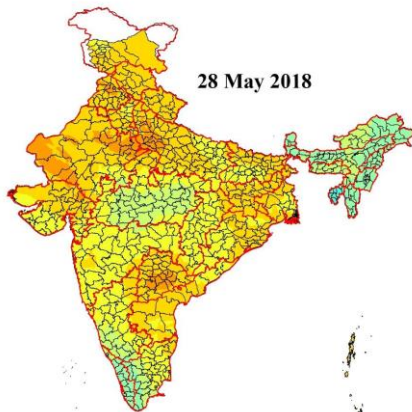
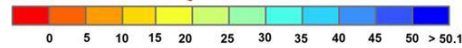
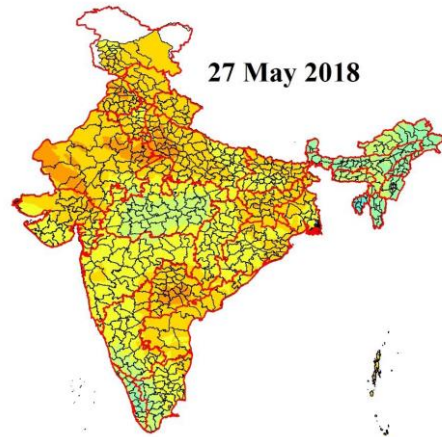
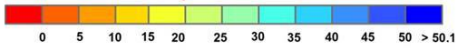
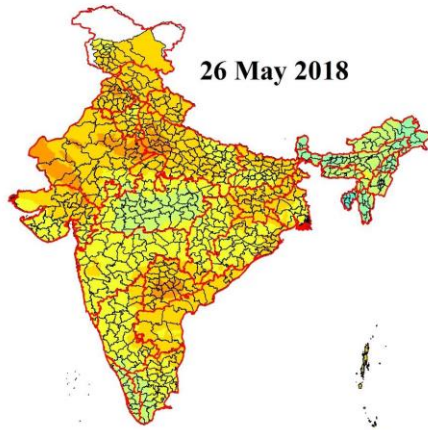
### Daily Soil Moisture (mm) for 25<sup>th</sup> May 2018 (ending at 0830 IST) for 60 cm depth



### Difference of Soil Moisture (mm) for 60 cm depth



**Forecasted Soil Moisture (mm) from 26<sup>th</sup> May to 30<sup>th</sup> May 2018 (ending at 0830 IST)  
for 60 cm depth**



## Weather Forecast for next 5 days valid upto 0830 hours of 30<sup>th</sup> May 2018

- Meteorological subdivision wise detailed 5 days rainfall forecast is given in Table below.
- Day maximum temperatures very likely to continue in the range of 42-45°C over most parts of central and northwest India, in the range of 41-43°C over most parts of northern parts of peninsular India and West India.
- No significant change in maximum temperatures over rest of the country during next 3-4 days.
- Gale winds speed reaching 160-170 Kmph gusting to 180 Kmph is very likely to prevail over Westcentral Arabian Sea during next 15 hours and will gradually decrease becoming 120-130 kmph gusting to 145 kmph in subsequent 06 hours over Westcentral Arabian Sea.
- Sea condition is phenomenal over West Central Arabian Sea and will continue to be phenomenal till 26<sup>th</sup> morning. It will improve gradually thereafter. Fishermen are advised not to venture into Westcentral Arabian Sea till 26<sup>th</sup> May.
- In view of the advance of the South West Monsoon, squally weather is likely to prevail over parts of southeast Arabian Sea, Lakshadweep, Maldives area, Kerala Karnataka coasts, southeast Bay of Bengal and Andaman Sea during next 3-4 days. Fishermen are advised not to venture into these areas during next 3-4 days.

### 5 Day Rainfall Forecast (Mid day) 25<sup>th</sup> May 2018

Met-Sub-Division	25-May Today	26May Sat	27May Sun	28May Mon	29May Tue
1. Andaman & Nicobar Islands	WS	WS	WS	FWS	FWS
2. Arunachal Pradesh	WS	WS	WS	WS	WS
3. Assam & Meghalaya	WS	WS	WS	FWS	FWS
4. N. M. M. & T.	FWS	FWS	FWS	FWS	WS
5. S.H. West Bengal & Sikkim	WS	WS	WS	FWS	FWS
6. Gangetic West Bengal	SCT	ISOL	ISOL	ISOL	ISOL
7. Odisha	SCT	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	SCT	SCT
9. Bihar	ISOL	ISOL	SCT	SCT	SCT
10. East Uttar Pradesh	ISOL	DRY	ISOL	ISOL	ISOL
11. West Uttar Pradesh	DRY	DRY	DRY	ISOL	ISOL
12. Uttarakhand	DRY	DRY	ISOL	SCT	SCT
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	ISOL
14. Punjab	DRY	DRY	DRY	DRY	ISOL
15. Himachal Pradesh	DRY	DRY	ISOL	ISOL	ISOL
16. Jammu & Kashmir	DRY	ISOL	ISOL	ISOL	ISOL
17. West Rajasthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	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	ISOL	ISOL	DRY	ISOL	ISOL
25. Marathawada	DRY	ISOL	DRY	DRY	ISOL
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	ISOL	ISOL	ISOL	DRY	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	FWS	SCT	ISOL	ISOL	ISOL
32. Coastal Karnataka	FWS	FWS	FWS	WS	WS
33. North Interior Karnataka	SCT	ISOL	ISOL	ISOL	SCT
34. South Interior Karnataka	FWS	FWS	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/ 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 during next 5 days

- **25 May (Day 1):** Heat wave conditions are very likely to occur at many parts of West Rajasthan, some parts of Haryana, Chandigarh & Delhi, West Uttar Pradesh & Madhya Pradesh and at one or two pockets over Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, East Rajasthan and Vidarbha. Heavy to very heavy rain with extremely heavy rain very likely at isolated places over Assam & Meghalaya; heavy to very heavy rain very likely at isolated places over Lakshadweep and heavy rain at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Tamilnadu & Puducherry, Coastal & South Interior Karnataka, Kerala and Andaman & Nicobar Islands. Thunderstorm accompanied with gusty winds very likely at isolated places over Lakshadweep, Kerala, interior Tamilnadu, Karnataka, Telangana, Rayalaseema, north Coastal Andhra Pradesh, Gangetic West Bengal, Odisha, Jharkhand, East Madhya Pradesh and Chhattisgarh.
- **26 May (Day 2):** Heat wave conditions are very likely to occur at many parts of West Rajasthan, some parts of East Rajasthan, Haryana, Chandigarh & Delhi, West Uttar Pradesh & Madhya Pradesh and at one or two pockets over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh and Vidarbha. Heavy to very heavy rain with extremely heavy rain very likely at isolated places over Assam & Meghalaya; heavy to very heavy rain very likely at isolated places over Lakshadweep & Kerala and heavy rain at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal & South Interior Karnataka and Andaman & Nicobar Islands. Thunderstorm accompanied with gusty winds very likely at isolated places over Kerala, interior Tamilnadu and Coastal & South Interior Karnataka.
- **27 May (Day 3):** Heat wave conditions are very likely to occur at many parts of Rajasthan, some parts of Haryana, Chandigarh & Delhi, West Madhya Pradesh and at one or two pockets over West Uttar Pradesh, East Madhya Pradesh and Vidarbha. Heavy rain at a few places with very heavy rain at isolated places very likely over Kerala; heavy to very heavy rain very likely at isolated places over Lakshadweep, Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim and heavy rain at isolated places very likely over Assam & Meghalaya, Arunachal Pradesh and Coastal & South Interior Karnataka.
- **28 May (Day 4):** Heat wave conditions are likely to occur at many parts of Rajasthan, some parts of West Madhya Pradesh and at one or two pockets over Haryana, Chandigarh & Delhi, East Madhya Pradesh and Vidarbha. Heavy to very heavy rain at a few places with extremely heavy rain at isolated places very likely over Kerala & Coastal Karnataka; heavy to very heavy rain very likely at isolated places over Lakshadweep and heavy rain at isolated places very likely over Assam & Meghalaya and South Interior Karnataka. Thunderstorm accompanied with gusty winds likely at isolated places over Uttarakhand. Thunderstorm/Duststorm likely at isolated places over Uttar Pradesh.
- **29 May (Day 5):** Heat wave conditions are likely to occur at some parts of West Madhya Pradesh and at one or two pockets over Rajasthan. Heavy rain at a few places with very heavy rain at isolated places likely over Kerala; heavy to very heavy rain likely at isolated places over Lakshadweep and Coastal Karnataka and heavy rain at isolated places likely over Assam & Meghalaya, Mizoram & Tripura and South Interior Karnataka. Thunderstorm accompanied with gusty winds likely at isolated places over Uttarakhand. Duststorm likely at isolated places over Rajasthan.

### Weather Outlook for subsequent 2 days from 30<sup>th</sup> May to 1<sup>st</sup> June 2018

- Widespread rainfall with isolated heavy falls likely over south Western parts of Peninsular India and Lakshadweep Islands. Scattered to fairly widespread rain/thundershowers likely over east & northeast India and Interior Peninsular India.
- Isolated precipitation likely over Western Himalayan region, Interior peninsula, eastern parts of Central India and northern plains.
- Dry weather likely over remaining parts of the country.



## Salient Advisories

- Utilizing the pre monsoon showers, continue nursery bed preparation for *kharif* rice and ragi in **South Konkan**. Continue nursery preparation for *virippu* rice in **Kerala** and land preparation/ nursery sowing for *Sali* rice in **Assam** after the forecasted spells of heavy rain. Provide adequate drainage to the vegetable, pepper, banana and arecanut plantations in Kerala.
- As thunderstorm accompanied with gusty winds very likely at isolated places over **Uttarakhand** on 28<sup>th</sup> and 29<sup>th</sup>, over **Gangetic West Bengal, Odisha, Jharkhand, East Madhya Pradesh** and **Chhattisgarh** on 25<sup>th</sup>, over **Kerala, interior Tamilnadu** on 25<sup>th</sup> and 26<sup>th</sup>, over **Karnataka, Telangana, Rayalaseema** and north **Coastal Andhra Pradesh** on 25<sup>th</sup> and over **Coastal & South Interior Karnataka** on 26<sup>th</sup> May; thunderstorm/duststorm very likely at isolated places over **Uttar Pradesh** on 28<sup>th</sup>, duststorm very likely at isolated places over **Rajasthan** on 29<sup>th</sup> May, 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.
- As heat wave conditions are very likely to occur at many parts of **West Rajasthan** on 25<sup>th</sup> and 26<sup>th</sup>, over **Rajasthan** on 27<sup>th</sup> and 28<sup>th</sup>, at some parts/one or two pockets of **Haryana, Chandigarh & Delhi** from 25<sup>th</sup> to 28<sup>th</sup>, over **West Uttar Pradesh** from 25<sup>th</sup> to 27<sup>th</sup> and at one or two pockets over **Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh** on 25<sup>th</sup> and 26<sup>th</sup>, over **Jammu & Kashmir** on 26<sup>th</sup>, at one or two pockets over **Vidarbha** from 25<sup>th</sup> to 28<sup>th</sup> May, at some parts/one or two pockets of **East Rajasthan** on 25<sup>th</sup> and 26<sup>th</sup> and over **Rajasthan** on 29<sup>th</sup> May, at some parts/one or two pockets of **Madhya Pradesh** on 25<sup>th</sup> and 26<sup>th</sup>, at some parts of **West Madhya Pradesh** from 27<sup>th</sup> to 29<sup>th</sup>, at one or two pockets of **East Madhya Pradesh** on 27<sup>th</sup> and 28<sup>th</sup> May, apply light and frequent irrigation to the standing crops to cope up with the excess evaporative demand due to heat wave conditions. Undertake mulching with straw/polythene to conserve soil moisture.
- In view of the prevailing heat wave conditions in **West Rajasthan, Madhya Pradesh, Vidarbha, Haryana, Chandigarh & Delhi** and **West Uttar Pradesh**; grazing/feeding of cattle/goats may be done during morning/evening hours. Keep animals under shade/shed during noon hours and provide plenty of water mixed with minerals for drinking. Also provide balanced feed & adopt vaccination schedule. Also provide mineral mixture and fresh and clean water to poultry birds. Make arrangement of curtains and proper ventilation in poultry house. Vaccinate the poultry birds to prevent Ranikhet disease.
- As rain/thundershowers would occur at most places over **Arunachal Pradesh** and **Kerala**, at most/many places over **Nagaland, Manipur, Mizoram & Tripura** and **Assam & Meghalaya, Andaman & Nicobar islands, Sub-Himalayan West Bengal & Sikkim** and **Coastal Karnataka** during the period, over **Tamil Nadu** on 25<sup>th</sup> May, along with heavy to very heavy rain with extremely heavy rain very likely at isolated places over Assam & Meghalaya on 25<sup>th</sup> and 26<sup>th</sup>, heavy rain at isolated places over Assam & Meghalaya from 27<sup>th</sup> to 29<sup>th</sup>, over Arunachal Pradesh, Andaman & Nicobar islands and Sub-Himalayan West Bengal & Sikkim from 25<sup>th</sup> to 27<sup>th</sup>, over Mizoram & Tripura on 29<sup>th</sup> May, heavy rain at isolated places very likely over Tamilnadu & Puducherry on 25<sup>th</sup>, over Coastal Karnataka on 25<sup>th</sup> to 27<sup>th</sup>, over South Interior Karnataka from 25<sup>th</sup> to 29<sup>th</sup>, over Kerala on 25<sup>th</sup> and 26<sup>th</sup> heavy rain at a few places with very heavy rain at isolated places very likely over Kerala on 27<sup>th</sup> and 29<sup>th</sup>, heavy to very heavy rain at a few places with extremely heavy rain at

isolated places very likely over Kerala on 28<sup>th</sup>, heavy to very heavy rain at isolated places over Coastal Karnataka on 28<sup>th</sup> and 29<sup>th</sup> May, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid water stagnation.

- Drain out excess water from maize, ginger, turmeric, pulses and vegetable fields in **Tripura** and maintain adequate drainage in the fields to avoid water stagnation.

### *Detailed Agromet Advisories*

#### **NORTH INDIA [JAMMU & KASHMIR, HIMACHAL PRADESH, UTTARAKHAND, PUNJAB, HARYANA, DELHI, UTTAR PRADESH & RAJASTHAN]**

- **Realised Rainfall:** Rainfall occurred in Bandipore and Baramula districts of Jammu & Kashmir during the week. Weather remained mainly dry/dry over rest of the region.
- **Advisories:**
  - As thunderstorm accompanied with gusty winds very likely at isolated places over Uttarakhand on 28<sup>th</sup> and 29<sup>th</sup>, thunderstorm/duststorm very likely at isolated places over Uttar Pradesh on 28<sup>th</sup>, duststorm very likely at isolated places over Rajasthan on 29<sup>th</sup> May, 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.
  - As heat wave conditions are very likely to occur at many parts of West Rajasthan on 25<sup>th</sup> and 26<sup>th</sup>, over Rajasthan on 27<sup>th</sup> and 28<sup>th</sup>, at some parts/one or two pockets of Haryana, Chandigarh & Delhi from 25<sup>th</sup> to 28<sup>th</sup>, over West Uttar Pradesh from 25<sup>th</sup> to 27<sup>th</sup> and at one or two pockets over Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh on 25<sup>th</sup> and 26<sup>th</sup>, over Jammu & Kashmir on 26<sup>th</sup>, at some parts/one or two pockets of East Rajasthan on 25<sup>th</sup> and 26<sup>th</sup>, over Rajasthan on 29<sup>th</sup> May, apply light and frequent irrigation to the standing crops to cope up with the excess evaporative demand due to heat wave conditions, undertake mulching with straw/polythene to conserve soil moisture.
    - **Jammu & Kashmir:**
      - Continue nursery raising of early transplanted rice (var. IET-1410, K-39, Ratna, PC-19, Jaya). Complete sowing of maize, okra, French bean. Undertake first hoeing in maize after 15 days of sowing to control weeds.
      - Continue nursery sowing of vegetables and cucurbit seeds in poly bags for early nursery raising inside polyhouse.
      - Apply Carbaryl @ 2g/litre or Cypermethrin @ 1ml/litre of water during clear weather against pumpkin beetle in cucurbits after current spells of rain.
      - To control the cutworm damage in maize at two leaf stage, undertake drenching with Chlorpyrifos 20 EC (0.02%) @ 2 ml per litre of water.
    - **Uttarakhand:**
      - Undertake nursery raising of rice. Continue harvesting of matured wheat, pulses and vegetables in clear weather. Irrigation should be given after weeding and hoeing in sugarcane crop and apply nitrogen to the crop.
      - Continue transplanting of capsicum and brinjal in the polyhouse in mid and high hills and planting of turmeric, ginger and arbi.
      - In valley, irrigation should be stopped at maturity stage of crops like rai, radish, turnip, cauliflower and harvesting should be done at the maturity of crops.
    - **Himachal Pradesh:**
      - Undertake preparation of rice nursery. Continue sowing of bhindi, planting of arvi etc. Continue nursery preparation of summer vegetables and raising of seedlings of cucurbits in polythene bags in poly house. Continue transplanting of vegetables like tomato, capsicum, gourd, chilli etc. in the well prepared fields.
      - In Himachal Pradesh to minimise the effect of hails on fruit and plants where hailstorms has occurred, immediately spray Carbendazim 100g or Mencozeb 60g @ 100 litres of water and another spray within 3-4 days of Boric acid 200g+ ZnSo4 500 g+ CaO 250 g @ 200 litres of water.
      - Optimum moisture level should be maintained in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.
      - Spray Mancozeb @ 00g/200 litres of water in apple orchards to control the apple scab diseases after current spells of rain.
    - **Punjab, Haryana & Delhi:**
      - In Punjab, complete sowing of Bt. cotton and desi cotton by end of May. Continue harvesting of matured vegetables. Undertake nursery sowing of rice (varieties i.e. PR 126, PR 124, PR 123, PR 122, PR 121, PR 116, PR 114, PR 115, PR 113). Apply irrigation in sugarcane, maize, moong, mash, vegetables and orchards.
      - In Haryana, continue sowing of cotton. Farmers are advised to prepare the land and sowing of green gram,

- Lobia, moth and Pigeon pea. Undertake nursery sowing of rice. Apply irrigation in vegetables and orchards.
- In Delhi, continue field preparation for sowing of pigeon pea. Undertake sowing of cotton. Continue harvesting of matured vegetables. Apply light irrigation in vegetables and standing crops.
- In Delhi, to control shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. If pest population is high, spray Spinosad 48 EC @ 1 ml/4 litres of water.
- **Uttar Pradesh:**
- Apply irrigation in vegetables and standing crops. Continue field preparation for rice nursery. Continue field preparation for sowing of pigeon pea and cotton. Continue intercultural operations in cucurbit crops and sugarcane. Undertake sowing of ginger and turmeric.
- Continue harvesting of matured vegetables. Continue digging up of matured tubers of onion. Undertake sowing of *kharif* maize.
- **Rajasthan:**
- Apply irrigation in summer groundnut, vegetables, orchards, sugarcane and moong. Continue sowing of cotton. Continue picking up of matured vegetables and cucurbits. Continue digging up of matured tubers of onion. Undertake field preparation for sowing of groundnut. Undertake nursery sowing of rice in irrigated Northwestern Plain Zone.
- Spray 30 EC Dimethoate @ 1ml/litre of water to control thrips, jassids and white fly in zaid moong.
- **Animal Husbandry**
- In Jammu & Kashmir, add calcium supplement in the diet of dairy animals and heifers especially feed rice straw these days to prevent calcium deficiency and intestinal blockage. Sheeps and goats need to be vaccinated against Sheep and Goat pox.
- In Punjab, keep the animals under sheds during noon time and provide fresh drinking water to save the animals from summer heat and stress.
- In Rajasthan, take care of domestic animals, keep them in shades during noon hours and make arrangement for plenty of drinking water with minerals.
- **Apiculture:**
- In Jammu & Kashmir, harvest honey from the bee colony. Migrate bee colonies to flora rich areas. Avoid antibiotics. For protection against ants, put the legs of apiary into water so that ants could not attack the apiary.
- In Himachal Pradesh give new queen to the bee colony in which the queen is weak and defunct. The time is also suitable for rearing new queens. Give extra frames to the colony for more honey accumulation. The colony may be divided to increase the numbers.

## EAST INDIA [JHARKHAND, BIHAR, ODISHA, WEST BENGAL & SIKKIM, ANDAMAN & NICOBAR ISLANDS]

- **Realised Rainfall:** Rainfall occurred in South Andaman and Nicobar districts of Andaman and Nicobar Islands, all districts of Odisha except Bargarh, Bolangir, Ganjam, Jagatsingpur, Kalahandi, Koraput, Malkangiri, Nawapara, Nawarangpur, Nayagarh and Puri, in Dhanbad, East Singhbhum, Pakur, Ramgarh, Ranchi, Saraikela and West Singhbhum districts of Jharkhand, Bankura, East Midnapore, Hooghly, Kolkata, 24 Pargana (N), Purulia, 24 Pargana (S) and West Midnapore districts of Gangetic West Bengal and in Darjeeling, Jalpaiguri, North Sikkim, South Sikkim and West Sikkim districts of Sub-Himalayan West Bengal during the week. Weather remained mainly dry/dry over rest of the region.
- **Advisories:**
  - As thunderstorm accompanied with gusty winds very likely at isolated places over Gangetic West Bengal, Odisha and Jharkhand on 25<sup>th</sup> May, it is advised to provide support to young fruit plants, banana and vegetables and propping up in sugarcane to prevent the crops from lodging due to strong winds. Keep harvested produce at safe places.
  - As rain/thundershowers very likely at most/many places over Andaman & Nicobar islands and Sub-Himalayan West Bengal & Sikkim during the period, along with heavy rain at isolated places from 25<sup>th</sup> to 27<sup>th</sup> May, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Keep harvested produces at safer places. Provide adequate drainage in standing crop fields to avoid water stagnation.
  - **Odisha:**
  - Go for ploughing of land at places receiving soaking rainfall to reduce weed infestation, to destroy eggs and larvae of hibernated soil insects and to increase soil profile recharge.
  - Undertake sowing of green manuring crops like Dhaincha and sunhemp in the areas which received rain. Green manure crops are sown in medium and low land condition at 6-8 weeks before transplanting of rice. Use 10 kg seeds per acre. Sowing time should be adjusted in such a way that the crop will attain 5-week stage just at 7 days before transplanting.
  - Collect the paddy seeds from Govt. Sales Centre for kharif sowing.
  - Undertake harvesting of matured early sown pulses and groundnut. Continue planting of summer vegetables

like cucurbits and lady's finger.

- Increased temperature may favour the egg laying of stemborer in rice in the main field. To attract the butterflies, place 4 Pheromone traps/acre, collect the adults and destroy them by burning them under soil or by burying.
- **Bihar:**
  - Start land preparation for sowing of long duration paddy seeds in nursery. Use vermi compost or FYM to the field where seedling is to be grown. Apply irrigation in vegetable crops as per requirement. Complete harvesting of maize.
  - Undertake land preparation for nursery of nursery Kharif onion, chilli and brinjal. Monitoring is advised in cucurbitaceous crops for infestation of red pumpkin beetle. If population of red pumpkin beetle exceeds economic threshold level, spraying of Dichlorvos 76EC @1 ml/litre of water is advised under clear sky condition.
- **Jharkhand:**
  - Maintain optimum water level in summer rice fields at dough stage. Continue planting of ginger and elephant foot yam in uplands.
  - Summer rice crop is at milky/ dough stage and Gundhi Bug infestation is more likely to be pronounced at this stage. Hence, dusting of Quinalphos 1.5 per cent dust @ 10 kg per acre during evening time is recommended during evening time or establish pheromone trap @ 3-4 nos./acre. Prevailing temperature favours Blast disease occurrence hence, spraying of Tricyclazole @ 6 g per 10 liter of water is recommended.
- **West Bengal:**
  - In the Sub-Himalayan West Bengal, provide proper drainage facility in ginger and turmeric fields. Continue transplanting of round chilli in the raised beds and provide proper drainage. Undertake land preparation for soybean cultivation. Undertake planting of elephant foot yam.
  - In Gangetic West Bengal, carry out harvesting of groundnut in clear weather. Harvest sesamum crop as the capsules turn yellow. Do not irrigate the Boro rice field as light rainfall has been forecast, Carry out harvesting of Boro rice when grains turn yellowish. Harvest rice the morning hours.
  - In Sub-Himalayan West Bengal, to control Bhindi Yellow vein mosaic virus, spray Imidachloropid @ 2 ml/litre of water. Use of sex pheromone trap @ 4 trap/bigha for fruit fly control in pointed gourd. If aphid or white fly infestation is observed in green gram at pre flowering stage, spray Imidaclopid@ 5ml/litre of water.
  - In Gangetic West Bengal, for anthracnose in mango, spray Thiodophenol Methyl @1g/litre of water before 1 month of harvest. To prevent fruit drop in mango, apply NAA (Planofix) @ 3ml per 15 lt of water. Prepare strong fencing for protect the betel vine crop from strong wind and apply mustard cake and Tasko-5 for better leaf development. For fruit rot in chilli crop at fruit development stage, remove the affected plant parts and spray Carbendazim @ 1g/lit of water at clear weather condition.
- **Andaman& Nicobar Islands:**
  - Make pit with spacing 2.5 X 2.5 m and undertake planting of cuttings of one year old stems of drumsticks as the weather is conducive. Keep the bunds of vegetable field open to drain out excess water as rainfall is expected.
- **Animal Husbandry**
  - In Jharkhand, in view of the prevailing high temperature, avoid grazing /feeding of cattle/goats during noon hours. Keep animals under shade or in sheds during noon hours and provide plenty of fresh cool water mixed with minerals for drinking. Also, provide balanced feed with ample concentrates and adopt necessary vaccination schedule. Make arrangement of curtains and proper ventilation in poultry houses. Put curtains on south-west side of poultry house and sprinkle water on the curtains during noontime. Also, cover the roof of the poultry house with grass or gunny bags. In poultry house, control the temperature using fogger.
  - In Andaman & Nicobar Islands, deworm all the livestock like cow, goat and pig with the single dose of Albendazole @ 7.5 mg/kg of body weight.
  - In West Bengal, feed the cattle at morning and evening time. Avoid mung mash and mustard cake in their food and supply arhar or black gram mash and sesame or linseed cake. Avoid grazing cattle during afternoon hours for protecting them from lightning due to Norwesters. Look for signs of Mastitis in dairy cattle and treat for it immediately.
- **Fisheries**
  - In Odisha, fish farmers, in case have stocked fingerlings in the pond for fish culture, they should monitor the quality and level of water, so also temperature. In case of water temperature goes above 30<sup>0</sup> C or water level goes below 1 m. depth, farmers are advised to go for early harvest and discontinue fish seed production and culture activity.
  - In West Bengal, apply lime @ 30kg/bigha in old ponds for decrease the salinity of water due to rising temperature and decreased water level.

## NORTHEAST INDIA [ARUNACHAL PRADESH, NMM&T, ASSAM, MEGHALAYA]

- **Realised Rainfall:** Rainfall occurred in East Siang, Papumpare, Tawang, Tirap, Upper Siang and Upper Subansari districts of Arunachal Pradesh, all districts of Assam except Baksa, Barpeta, Cachar, Dhubri, Jorhat, Kamrup (Metro), Lakhimpur, Morigaon and Udalgiri, in East Garo, East Khasi, West Garo and West Khasi districts of Meghalaya, Lunglei and Serchip districts of Mizoram, Imphal West district of Manipur, in Dimapur, Kohima and Mon districts of Nagaland and in all districts of Tripura during the week. Weather remained mainly dry over rest of the region.
- **Advisories:**
  - As rain/thundershowers would occur at most places over Arunachal Pradesh, at most/many places over Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya during the period, along with heavy to very heavy rain with extremely heavy rain very likely at isolated places over Assam & Meghalaya on 25<sup>th</sup> and 26<sup>th</sup>, heavy rain at isolated places over Assam & Meghalaya from 27<sup>th</sup> to 29<sup>th</sup>, over Arunachal Pradesh from 25<sup>th</sup> to 27<sup>th</sup> over Mizoram & Tripura on 29<sup>th</sup> May, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Avoid water logging in ginger, turmeric, pulses and vegetable fields in Nagaland, Manipur, Mizoram & Tripura.
  - **Arunachal Pradesh:**
    - Undertake sowing of French bean and okra. Provide proper drainage facility in the fields of Jhum rice, pea, toria, mustard, ginger and turmeric crops. Undertake sowing of larger cardamom in primary nursery bed at 2cm depth & 10cm apart with mulching & regular irrigation. Carry out harvesting of mature crop of pea.
    - For stem borer in rice at tiller stage, spray Triazophos 40EC @ 4 ml/litre of water against stem borer in rice nursery as well as in the main field.
  - **Assam:**
    - Continue land preparation /nursery sowing for Sali rice, sowing for maize crop after current spells of heavy rain. Continue planting of fruit crops like pineapple, papaya, banana, etc. Continue planting of Assam lemon and banana suckers. Postpone harvesting of summer green/black gram till the rain recedes. Undertake sowing of Oiltorius varieties viz, JRO-524, JRO-7835, JRO-632, SEL-2 and Tarun up to the month of May.
    - At active tillering stage, attack of Gall midge is common in Normal Ahu paddy. Apply Chlorpyrifos 20EC 0.02% concentration @ 1 ml per litre of water or Carbofuran 3G @ 4 Kg or Phorate 10G @ 1.3 Kg per bigha when rainfall recedes. Spray Carbendazim @ 1.0 gram per litre for incidences of powdery mildew disease in cucurbitaceous crops and late pea. Gandhi bug attack may be seen in Boro rice at milky stage. For effective control of Gandhi bug, apply 5% Malathoin dust @ 20 kg per ha of land.
  - **Meghalaya:**
    - Continue sowing of cucurbits like cucumber, pumpkin, bottle gourd, ash gourd, squash, French bean and cowpea. Continue land preparation and sowing of maize varieties Vijay Composite, DA 61A, RCM 75, 76, Vivek Hybrid 25, Vivek, QPM-1, etc. Continue transplanting of chilli and brinjal crops.
  - **Manipur:**
    - Continue land preparation for sowing of soybean, groundnut, black gram and rice bean after forecasted spells of heavy rain. Maintain optimum water depth of 5-8cm in the rice field. Undertake planting of colocasia. Carry out land preparation/seed collection for raising kharif rice nursery.
  - **Mizoram:**
    - Carry out weeding in rice and maize fields on a non rainy day. Continue harvesting of mature potato, capsicum, chilli and brinjal crops in clear weather. Undertake sowing of cow pea and okra.
  - **Tripura:**
    - Drain out excess water that is accumulated in in maize, cowpea, urad and green gram fields. Weeding and thinning may be done in Jhum rice after current spells of rain.
    - In Tripura, there may be attack of Gandhi Bug in Boro rice at flowering stage. To manage the attack, apply Imidacloprid 2 ml per liter of water after current spells of rain. Downy mildew may occur in cucumber, ridge gourd, pumpkin etc. Combination of Carbandazim and Chlorothalonil @ 1.5 gm or Matalaxyl and Mancozeb @ 2gm per liter of water may be applied.
  - **Nagaland:**
    - Continue sowing of summer vegetables. Continue transplanting of King chilli. Undertake weeding and earthing up in maize after current spells of rain.
- **Animal Husbandry**
  - Vaccinate pigs against FMD & swine fever and cattle/sheep/goat against FMD, Hemorrhagic Septicaemia, Black Quarter. Vaccinate poultry birds against coccidiosis and Ranikhet diseases. Bird flu like disease infection in poultry and duck has been observed in some districts of lower Assam. Consult immediately with veterinary doctor.
- **Fishery**
  - Collect healthy fingerlings from authentic sources as there is enough water in the fish pond. Remove the unwanted fishes and predator by repeated netting before leaving the new fingerling in the fish pond.

## WEST INDIA [GOA, MAHARASHTRA, GUJARAT]

- **Realised Rainfall:** Weather remained dry/mainly dry over the region during the week.
- **Advisories:**
  - **Maharashtra:**
    - As heat wave conditions very likely at one or two pockets over Vidarbha from 25<sup>th</sup> to 28<sup>th</sup> May, apply light and frequent irrigation to the standing crops to cope up with the excess evaporative demand due to heat wave conditions, undertake mulching with straw/polythene to conserve soil moisture.
    - In South Konkan, continue nursery bed preparation for kharif rice and ragi. For rice and nagli nursery, prepare raised beds of 120 cm width at the base and 90 cm width at the top and 8 to 10 cm height. Utilising premonsoon showers undertake sowing of rice and ragi. Harvest remaining matured mango fruits before 1000 hours in the morning and after 16 hours in the evening at 80 to 85 % maturity. Keep the harvested fruits in shade to prevent spongy tissue disease and from heat. Due cloudy weather and light rains during last 4-5 days, there may be incidence of fruit fly on matured mango fruits, install Methyl eugenol containing Rakshak traps @ 4 traps per ha.
    - In Madhya Maharashtra, undertake nursery preparation on raised bed for kharif rice & ragi (nachani). Undertake decomposition of crop residues and cotton stalks of previous season for destruction various stages of pink bollworm. Undertake ploughing, harrowing, land leveling and bunding as early as possible. Undertake nursery bed preparation for kharif rice in western ghat regions. Use rice straw ash @ 1 kg per square meters in nursery bed. The harvested onion dried in shade should be graded and stored in storage shed. The shed should be sprayed with fungicide from all the sides and floor. Complete harvesting of matured summer crops and keep at safe storage places as rain expected at isolated places.
    - In Marathwada, before *mrig bahar* (flowering) in citrus and pomegranate, remove dried and infected branches of the plants. Irrigation management should be done as per requirement after application of fertilizer. Apply irrigation in sapota orchard. Utilising premonsoon showers, undertake land preparation for kharif soybean, sorghum, bajra, turmeric and *adsali* sugarcane.
    - In Vidarbha, apply light and frequent irrigation to vegetables and orchards (banana & orange). Undertake mulching (2 to 3 inch layer) of organic material. Undertake harvesting of matured summer groundnut. Harvest matured mango in morning up to 10 AM and after 4 PM in evening and store in safe place.
  - **Gujarat:**
    - In North Saurashtra, undertake sowing of groundnut (GG-20, GG-11) with irrigation facility. Undertake land preparation and keep inputs ready for sowing of cotton (Early: Bg-II GCH-8, ATM, Jay, First Class, Beejdhani-2, Sarju, Atom, Bhakti; Medium Late: Bg-II GCH-6, RCH-659, Agritop-777, Agritop-444, Solar-76, Swapna, Mallika, Ajit-155) and other *kharif* crops. Apply light and frequent irrigation by drip system to vegetable (flowering), groundnut (pod development) crops and mango, citrus and sapota orchards in Saurashtra & kutch. Continue harvesting of matured green gram and black gram in South Saurashtra. In Kutch, prepare the land for sowing of irrigated hybrid cotton and B.T. cotton and keep inputs ready (G. cot. 6, 8, 10 and approved varieties of B.T. cotton). Construct the bund in advance to reduce soil erosion and plan for khet Talavadi (farm ponds) to collect runoff water.
    - In South Gujarat, undertake harvesting of matured groundnut and pulses crops. Plan for sowing of cotton with irrigation facility. Continue nursery sowing for rice (NAUR-1, GNR-2 (Costal area) GNR-3, GNR-4, GNR-5, GNR-6 (Long duration), Jaya, Gurjari, GR-5, 7, 8, 9, IR-28, Purna and GAR-13)) under irrigation facility. Continue sowing of cluster bean and cowpea. Continue harvesting of matured mango fruits. Provide drip irrigation to fruit crops.
    - In North Gujarat, carry out harvesting of matured pearl millet and green gram. Continue land preparation for sowing of irrigated hybrid cotton and B.T. cotton; keep the inputs ready for sowing (hybrid cotton - G. cot. 6, 8, 10 and approved varieties of B.T. cotton) and undertake sowing with irrigation. Carry out leveling of plots to increase soil moisture holding capacity. Make farm pond in lower region of field to harvest excess rainwater. Make necessary arrangement to recharge rainwater into wells and tube wells. Apply irrigation in lemon and mango at short intervals under high temperature condition.
    - In Middle Gujarat, complete harvesting and threshing of early varieties of summer rice. Apply irrigation in green gram, pomegranate, sapota, lemon and papaya orchards. Cover papaya fruits using gunny bags; decrease the interval between two irrigations in vegetable crops.
    - In North Saurashtra, due to high temperature, mites infestation in lemon orchard is observed; to control, spray Propargite 57 % EC @10ml/10 liters of water. Severe attack of thrips in chilli has been reported; spray Profenofos @ 20 ml / 10 litres of water.
  - **Animal Husbandry**
    - In Gujarat, put curtains on south-west side of poultry house and sprinkle water on curtains during noon time. Keep animals under shade during noon hours and provide plenty of cold water mixed with minerals for drinking and shower the animals with cold water two to three times in a day.

## CENTRAL INDIA [M.P., CHHATTISGARH]

- **Realised Rainfall:** Rainfall occurred in Gariaband and Surguja districts of Chhattisgarh during the week. Weather remained mainly dry/dry over rest of the region.
- **Advisories:**
  - As thunderstorm accompanied with gusty winds very likely at isolated places over East Madhya Pradesh and Chhattisgarh on 25<sup>th</sup> May, 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.
  - **Madhya Pradesh:**
    - As heat wave conditions very likely at some parts/one or two pockets over Madhya Pradesh on 25<sup>th</sup> and 26<sup>th</sup>, at some parts of West Madhya Pradesh from 27<sup>th</sup> to 29<sup>th</sup>, at one or two pockets of East Madhya Pradesh on 27<sup>th</sup> and 28<sup>th</sup> May, apply light and frequent irrigation to the standing crops to cope up with the excess evaporative demand due to heat wave conditions, undertake mulching with straw/polythene to conserve soil moisture.
    - In West Madhya Pradesh, apply irrigation in vegetables, orchards, green gram, black gram, maize and groundnut. Continue intercultural operations in vegetables. Continue harvesting of matured vegetables. Continue harvesting of moong and urad. Continue deep ploughing in vacant fields. Undertake sowing of cotton in Nimar Valley Zone.
    - In East Madhya Pradesh, apply irrigation in maize, groundnut, sugarcane, summer moong, urad and cucurbits. Continue harvesting of matured vegetables. Continue harvesting of matured moong and urad. Continue intercultural operations in sugarcane. Due to hot and dry winds banana and papaya fruits are damaged because of sun scorching, cover the fruits by using leaves or Jute bags to protect the fruits from sun scorching.
    - In West Madhya Pradesh, for control of sucking pest in moong & urad spray Thiamethoxam @ 0.3 gm/litre of water. For attack of red pumpkin, whitefly in cucurbit crops; spray Triazophos 40 E.C. @ 2.0 ml per litre of water.
  - **Chhattisgarh:**
    - Apply irrigation in summer moong, sugarcane, vegetables as per soil moisture condition. Continue harvesting of matured vegetables. Continue nursery preparation for rice. Treat seed with Carbendazim (2 gm/kg of seed) fungicide before sowing in nursery. Continue harvesting of matured summer rice. Cover the fruits of papaya and banana by using leaves or jute bags to protect from sun scorching. Undertake nursery preparation for vegetables.
- **Animal Husbandry**
  - In West Madhya Pradesh, grazing /feeding of cattle/goats may be done during morning/ evening hours. Keep animals under shade/shed during noon hours and provide plenty of water mixed with minerals for drinking . Also provide mineral mixture and fresh and clean water to poultry birds. Vaccinate the poultry birds to prevent Ranikhet disease.
  - In Chhattisgarh, poultry farmers are advised to cover their poultry house with mat and keep it wet so that inner temperature may be kept normal. Provide plenty of drinking water to cattle. Buffaloes should be kept in water-filled pond for at least half an hour every day.

## SOUTH INDIA [TAMIL NADU, TELANGANA, ANDHRA PRADESH, KARNATAKA, KERALA]

- **Realised Rainfall:** Rainfall occurred in all districts of Kerala except Kannur and Thrissur, in Hyderabad district of Telangana, Ariyalur, Coimbatore, Dharmapuri, Erode, Kanyakumari, Karaikal, Krishnagiri, Namakkal, Nilgiris, Perambalur, Salem, Sivaganga, Tirupur, Trichy and Virudhunagar districts of Tamilnadu, all districts of Coastal Karnataka, Dharwad, Gadag, Haveri, Koppala and Vijayapura districts of North Interior Karnataka and all districts of South Interior Karnataka except Ballary, Chamarajanagar, Kodagu and Kollar during the week. Weather remained mainly dry/dry over rest of the region.
- **Advisories:**
  - As thunderstorm accompanied with gusty winds very likely at isolated places over Kerala, interior Tamilnadu on 25<sup>th</sup> and 26<sup>th</sup>, over Karnataka, Telangana, Rayalaseema and north Coastal Andhra Pradesh on 25<sup>th</sup> and over Coastal & South Interior Karnataka on 26<sup>th</sup> May, provide support to banana, young fruit plants and vegetables to avoid lodging. Undertake propping in sugarcane.
  - As rain/thundershowers would occur at most places over Kerala during the period, at most/many places over Coastal Karnataka during the period, at many places over South Interior Karnataka during the period and over Tamil Nadu on 25<sup>th</sup> May, along with heavy rain at isolated places very likely over Tamilnadu & Puducherry on 25<sup>th</sup>, over Coastal Karnataka on 25<sup>th</sup> to 27<sup>th</sup>, over South Interior Karnataka from 25<sup>th</sup> to 29<sup>th</sup>, over Kerala on 25<sup>th</sup> and 26<sup>th</sup>, heavy rain at a few places with very heavy rain at isolated places very likely over Kerala on 27<sup>th</sup> and 29<sup>th</sup>, heavy to very heavy rain at a few places with extremely heavy rain at isolated places very likely over Kerala on 28<sup>th</sup>, heavy to very rain at isolated places over Coastal Karnataka on 28<sup>th</sup> and 29<sup>th</sup> May, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid water stagnation.

- **Kerala:**
  - Continue preparation of nurseries for *Viruppu* rice and planting of coconut seedlings and 3-4 months old banana suckers (varieties like Robusta, Poovan, Njalipoovan, Palayankodan, etc) after the forecasted spells of heavy rain. Apply neem cake 1 kg/plant at the time of planting banana. Provide adequate drainage to the vegetable, pepper, banana and arecanut plantations. Fix rain guard for rubber trees during the month. Subsequent tappings must be done after proper drying of tapping panel.
  - Cultivate ginger, Turmeric, Banana, Mulberry and Tuber crops as intercrops in coconut plantations Undertake planting of three budded setts of sugarcane after current spells of heavy rain.
  - Sigatoka leaf spot disease in banana may become severe due to increase in relative humidity. Spray 1% Bordeaux mixture or Tilt 25 EC (1ml/litre of water) after cutting the severely affected leaves and burning them. The prevailing weather condition is favourable for the attack of leaf eating caterpillar in banana. As control measure spray 1.5 ml Quinalphos (Ekalux) 25 E.C, in 1 litre of water. Apply Indofil M45 4 g/ litre of water and repeat at one week interval to avoid fungal diseases in rubber plants. Use pheromone traps to control fruit flies in bittergourd, snakegourd. Undertake plant protection methods after current spells of rain
- **Andhra Pradesh:**
  - Continue summer ploughing followed by land preparation for pre-kharif crops like sesamum, bajra, mesta, etc. Continue summer ploughing for rain-fed sugarcane.
  - For the control of stem rot in paddy, spray Hexaconazole 2 ml or Carbendigem 1 g per litre of water. For the control of fruit fly in mango orchards, erect pheromone traps or IIHR traps @ 8-10/acre at 3-6 feet from ground level. To control thrips in summer groundnut at early vegetative stage, spray Monocrotophos @ 1.6 ml per litre of water. The present weather conditions are favourable for pinworm in tomato. To control, set up 8 pheromone traps/acre and spray Quinalphos @ 2 ml or Emamectin Benzoate 0.2 g or Novaluran 1 ml per litre of water.
- **Telangana:**
  - Take up summer ploughing to control weeds, hibernating pests and disease spores that may damage kharif crops. Dig pits for planting new orchards.
  - Prevailing dry weather conditions are favorable for the incidence of fruit fly in mango. To trap the flies in the container, hang the plastic containers with mixture of Methyl Eugenol @ 2 ml + Carbofuran 3G @ 3g per litre of water in the orchard. If leaf blight incidence is noticed in tomato crop at flowering to harvesting stage, spray COC @ 3 g/litre of water. For leaf hopper incidence in bhindi crop at flowering to harvesting stage, spray Imidacloprid @ 1 ml/litre of water. The present weather conditions are favourable for thrips, to control spray acephate @ 1.5 g or fipronyl @ 2 ml. or dimethoate 2 ml./lit of water is recommended.
- **Tamil Nadu:**
  - Prevailing high wind speed may damage banana crop. Provide support to five months or older banana plants. Undertake planting of rooted cuttings of pepper if sufficient soil moisture is available. Carry out gap filling summer irrigated blackgram with soaked seeds at 7- 8 days after sowing for maintaining optimum population. Provide drainage to recently planted sugarcane, maize, groundnut and turmeric rhizome. Cover banana bunches with transparent polythene sleeves (4%) at maturity stage to increase the quality. Take up groundnut and green gram sowing with available soil moisture.
  - Undertake field preparation followed by sowing of Chithirai pattam rainfed groundnut. Provide drainage to late season sugarcane setts to avoid sett rot. Continue planting of turmeric rhizomes. Carry out weeding and earthing up @ 45 DAS in rice fallow cotton. Fix polythene rain guard to the trunk of the rubber tree above the tapping panel. So that tapping can be done during rainy season also.
  - To control the incidence of sucking pest in the vegetable crops, spray 5 % Neem seed kernel extract. To control shoot and fruit borer in Brinjal, apply Emamectin Benzoate 5 SG @ 200 g/ha. Due to prevailing weather condition leaf curl virus instance may occur in Tomato. To control, spray systemic insecticides like Methyl Demeton or Dimethoate @ 2 ml/litre of water. Prevailing weather is favorable for scab incidence. To control the disease spray Carbendazim 0.1%. Prevailing weather is favorable pod borer incidence. To control, spray Indoxacarb 15.8% SC 333 ml/ha or Chlorantraniliprole 18.5 SC 150ml/ha. Prevailing weather is favorable for mite incidence in irrigated sorghum at vegetative stage. To control, spray Dicofol 18.5 EC 1500 ml/ ha or wettable sulphur 3.75 kg/ha under the surface of leaves.
- **Karnataka:**
  - In South Interior Karnataka, continue ploughing across the slope /passing the cultivator in the areas where rainfall is received; it improves infiltration and conservation of rain water and avoids soil erosion and checks the weeds. Continue pre-monsoon sowing of short duration crops like cowpea (TVX-944, KBC-1, TVC-152), green gram (PS-16, PDM-84,178, KKM-3), black gram (Karagao-3, T-9, Rashmi (LBG-625), horse gram, field bean (HA 1, 2, 3 & 4) and groundnut (TMV-2, JL-24, KCG-6) utilizing the realized rainfall.
  - In Coastal Karnataka, undertake raising and multiplication of seedlings of black pepper. Transfer strong and better areca nut seedlings from primary seed bed to secondary seed bed. Clean all drainage channels.



- In North Interior Karnataka, continue land preparation for sowing of *khariif* crops; keep inputs ready for sowing of soybean (JS-335), green gram (BGS-9), black gram (DU-1) and red gram (TS-3R) crops. Continue harvesting of fully matured fruits of mango. There is a chance of rainfall; harvest fully matured fruits of sapota/chikku immediately. Continue the repairing of bunds and check dam so as to reduce the run-off to check the soil erosion.
- In South Karnataka, due to heavy downpour of rain/thunderstorm, fruit dropping have been observed in mango and consequently fruit fly damage is noticed; spray Carbaryl @4 g/litre of water after current spells of rain.
- **Animal Husbandry**
- In Tamil Nadu, feed the dairy cattle early in the morning and late in the evening along with mineral mixture to avoid heat stress. For every 100 poultry birds, add 10-20 ml of B-complex or liver tonic to the drinking water to reduce heat stress. Feed the calves with 30 gms of mineral mixture per day. Also, de-worm calves as per regular schedule with the support of nearby veterinarian.
- In Telangana, prevailing weather conditions are congenial for the occurrence of sheep pox disease in sheep and goat and Foot and mouth disease in cattle and Buffaloes. To prevent the diseases, vaccinate the animals. To protect the poultry birds from high temperature, arrange fans and foggers in sheds, cover the sheds with paddy straw and arrange sprinklers. Feed with wet mash to increase the feed intake and provide cool water for drinking. Vaccinate birds against Ranikhet disease.
- In Karnataka, provide protein rich feed by giving oil seed cake, Azolla, green fodder and mineral supplements such as Vitamin C and B –complex based on the deficiency. Silage, hay and crop residues may be used for cattle feed when there is shortage of green fodder. Maintain proper ventilation for free circulation of air in the sheds. Allow animals for grazing early in morning or later in evening. Maintain optimum temperature by applying 4-6 inch thick hay thatch as a roofing material in poultry house.

The Agromet Products in this Bulletin are generated by Agrimet Division, weather forecast issued by NWFC, New Delhi and Agromet Advisories are prepared based on the DAAS Bulletins issued by different Agrometeorological Field Units.