



National Agromet Advisory Service Bulletin

Friday 06th April 2018
(For the period 06th to 11th April 2018)



Issued by
India Meteorological Department

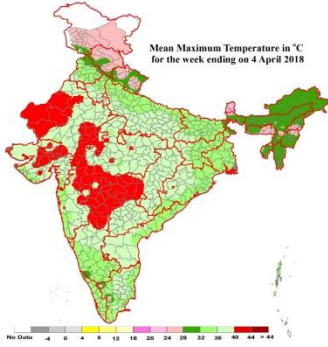
Weblink For

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

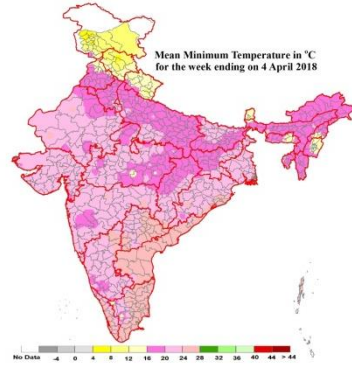
State Composite AAS Bulletin: <http://www.imdagrimet.gov.in/node/3544>

Spatial distribution of weather parameters for the week ending 04.04.2018

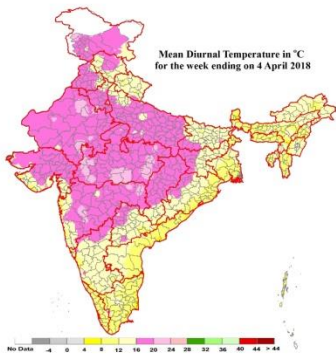
Mean Maximum Temperature (°C) for the week ending 04.04.2018



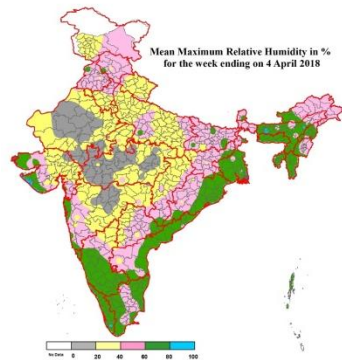
Mean Minimum Temperature (°C) for the week ending 04.04.2018



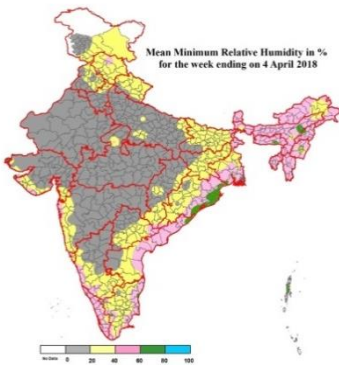
Mean Diurnal Temperature Variation (°C) for the week ending 04.04.2018



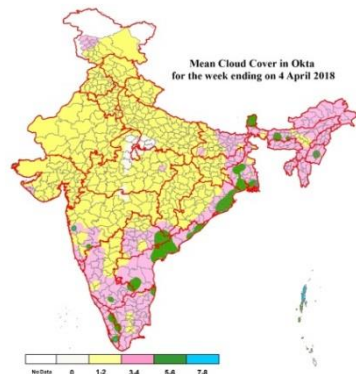
Mean Maximum Relative Humidity (%) for the week ending 04.04.2018



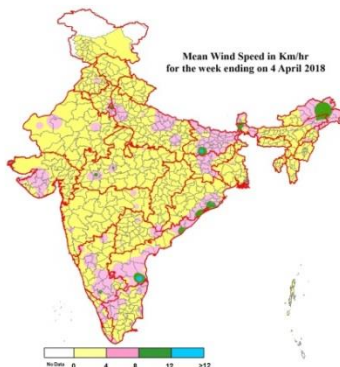
Mean Minimum Relative Humidity (%) for the week ending 04.04.2018



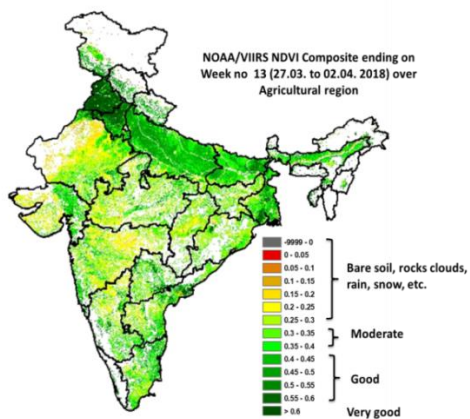
Mean Cloud Cover (okta) for the week ending 04.04.2018



Mean Wind Speed (km/hr) for the week ending 04.04.2018

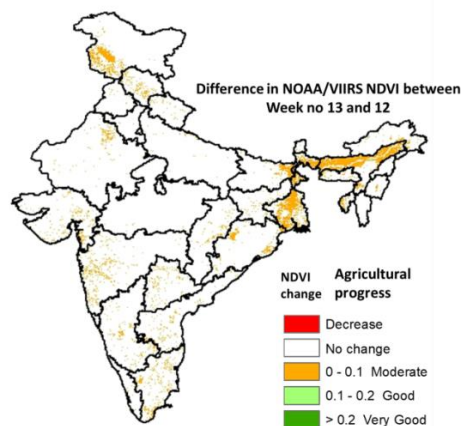


NOAA/VIIRS NDVI composite ending on 2nd April 2018 over Agricultural regions of India



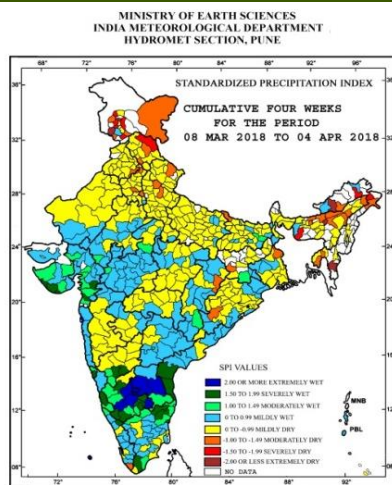
Agriculture vigour is good to moderate over Indo-gangetic plains, East coast and western coast of Maharashtra, some parts of Gujarat and interior parts of Tamil Nadu and Telangana. Rest of the country shows moderate progress of NDVI.

Difference in NOAA/VIIRS NDVI between 27th March 2018 and 2nd April 2018



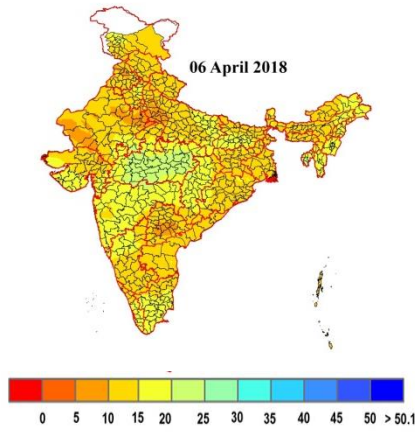
Good to moderate progress was observed over many parts of the country.

**Standardised Precipitation Index
Cumulative 4 weeks for the period 8th March to 4th April 2018**

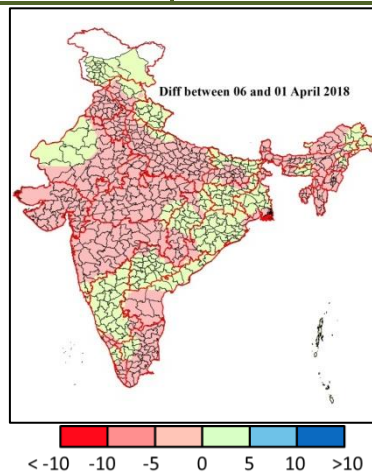
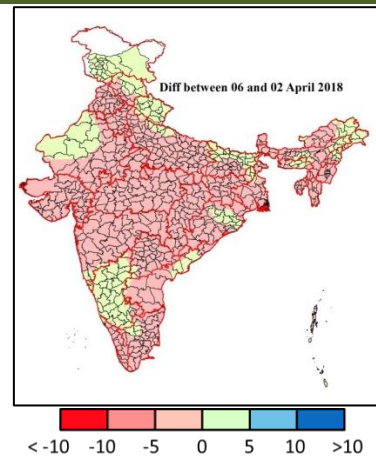
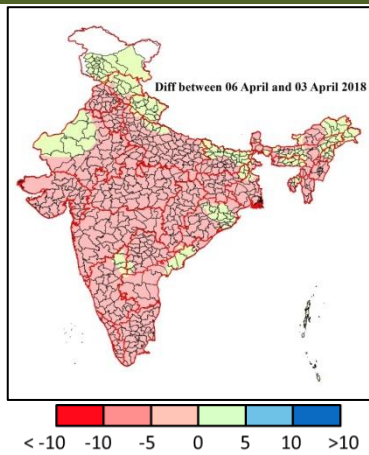
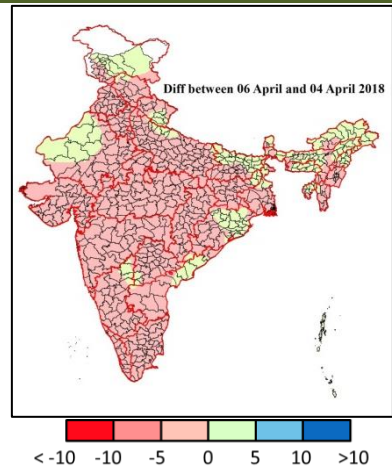
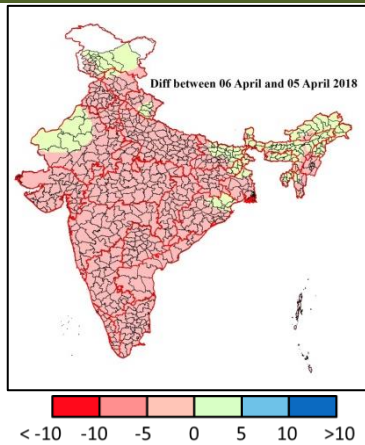


- Extremely/severely wet conditions experienced in few districts of Gujarat Region; Saurashtra, Kutch & Diu; Karnataka; Kowarda, Mahasamund, districts of Chhattisgarh; Vishakhapatnam, districts of Andhra Pradesh; Adilabad, districts of Telangana; Madurai, Namakkal, Pudukkottai, Trichy, Tiruvarur, Ariyalur, Karaikal, districts of TamilNadu & Puducherry; Cannur, Ernakulam, districts of Kerala.
- Extremely/Severely dry conditions experienced in few districts of Arunachal Pradesh; Himachal Pradesh; Cachar, Morigaon, districts of Assam; West Garo Hills, districts of Meghalaya; Ropar, Barnala, districts of Punjab; Baramula, districts of Jammu & Kashmir.
- Moderately dry conditions experienced in many districts of Tripura; Delhi; few districts of Arunachal Pradesh; Assam; Himachal Pradesh; Murshidabad, districts of West Bengal; Kalahandi, districts of Odisha; Garhwa, Ramgarh, districts of Jharkhand; Siddharth Nagar, Firozabad, Mainpuri, districts of Uttar Pradesh; Sirsa, districts of Haryana; Chamoli, Garhwal Tehri, districts of Uttarakhand; Moga, Sas Nagar Mohali, districts of Punjab; Bastar, districts of Chhattisgarh; Tumkur, districts of Karnataka.
- Rest of the country experienced moderately wet/mildly dry/mildly wet conditions.

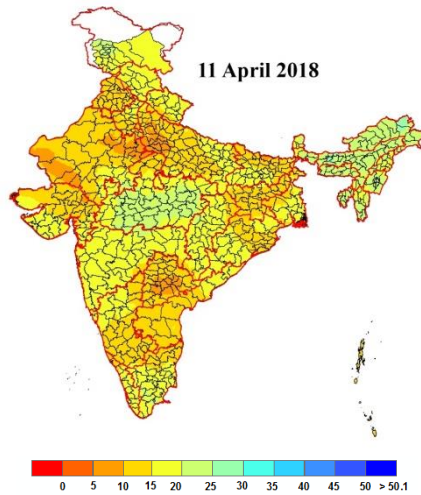
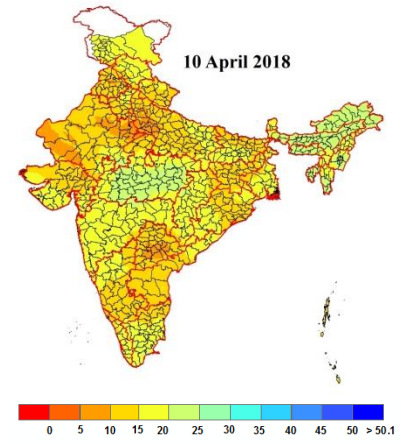
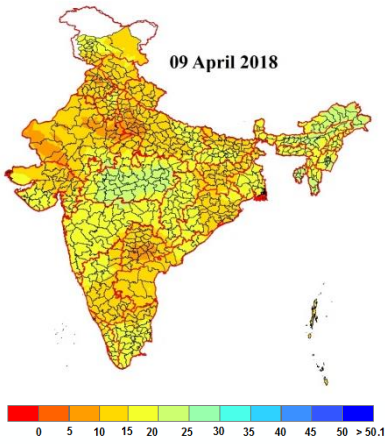
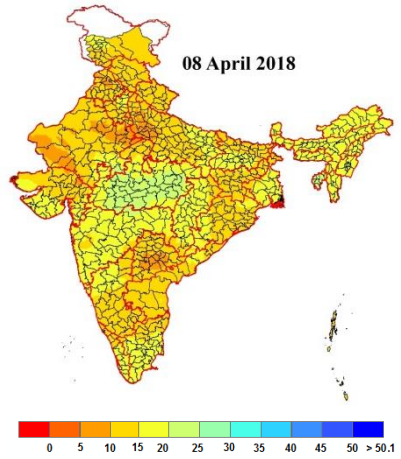
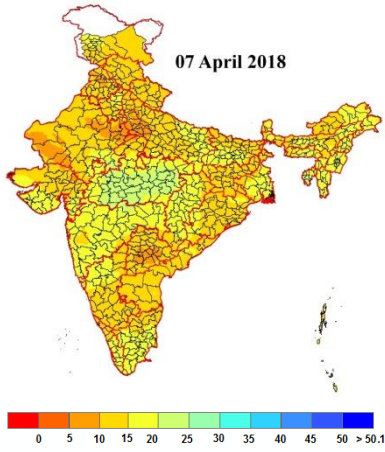
Daily Soil Moisture (mm) for 6th April 2018 (ending at 0830 IST) for 60 cm depth



Difference of Soil Moisture (mm) for 60 cm depth



**Forecasted Soil Moisture (mm) from 07th to 11th April 2018(ending at 0830 IST)
for 60 cm depth**



Weather Forecast for next 5 days valid upto 0830 hours of 11th April 2018

- Meteorological subdivision wise detailed 5 days rainfall forecast is given in Table below.
- Maximum temperatures likely to fall 2-3°C over major parts of the country during next 3 days.

5 Day Rainfall Forecast (Mid day) 6th April 2018

| Met-Sub-Division | 06-Apr Today | 07Apr Sat | 08Apr Sun | 09Apr Mon | 10Apr Tue |
|------------------------------|-----------------|--------------|--------------|--------------|--------------|
| 1. Andaman & Nicobar Islands | SCT | FWS | FWS | FWS | SCT |
| 2. Arunachal Pradesh | FWS | SCT | FWS | FWS | FWS |
| 3. Assam & Meghalaya | SCT | SCT | SCT | FWS | FWS |
| 4. N. M. M. & T. | FWS | FWS | WS | FWS | FWS |
| 5. S.H. West Bengal & Sikkim | FWS | FWS | FWS | FWS | SCT |
| 6. Gangetic West Bengal | SCT | FWS | SCT | ISOL | ISOL |
| 7. Odisha | ISOL | ISOL | ISOL | ISOL | ISOL |
| 8. Jharkhand | ISOL | SCT | SCT | ISOL | ISOL |
| 9. Bihar | ISOL | SCT | SCT | ISOL | ISOL |
| 10. East Uttar Pradesh | ISOL | SCT | SCT | SCT | ISOL |
| 11. West Uttar Pradesh | ISOL | ISOL | SCT | ISOL | ISOL |
| 12. Uttarakhand | ISOL | SCT | FWS | FWS | FWS |
| 13. Haryana, Chd & Delhi | ISOL | ISOL | ISOL | ISOL | ISOL |
| 14. Punjab | ISOL | ISOL | ISOL | SCT | SCT |
| 15. Himachal Pradesh | ISOL | ISOL | SCT | FWS | FWS |
| 16. Jammu & Kashmir | ISOL | ISOL | SCT | WS | FWS |
| 17. West Rajsthan | ISOL | ISOL | ISOL | ISOL | ISOL |
| 18. East Rajasthan | ISOL | ISOL | ISOL | ISOL | ISOL |
| 19. West Madhya Pradesh | ISOL | ISOL | ISOL | ISOL | ISOL |
| 20. East Madhya Pradesh | DRY | ISOL | ISOL | ISOL | ISOL |
| 21. Gujarat Region | DRY | DRY | DRY | DRY | DRY |
| 22. Saurashtra & Kutch | DRY | DRY | DRY | DRY | DRY |
| 23. Konkan & Goa | ISOL | ISOL | ISOL | ISOL | ISOL |
| 24. Madhya Maharashtra | ISOL | ISOL | ISOL | ISOL | ISOL |
| 25. Marathawada | ISOL | ISOL | ISOL | ISOL | ISOL |
| 26. Vidharbha | ISOL | ISOL | 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 | DRY | ISOL | SCT | SCT | ISOL |
| 31. Tamilnadu & Puducherry | ISOL | ISOL | SCT | ISOL | ISOL |
| 32. Coastal Karnataka | ISOL | ISOL | SCT | ISOL | ISOL |
| 33. North Interior Karnataka | SCT | ISOL | ISOL | SCT | ISOL |
| 34. South Interior Karnataka | ISOL | ISOL | SCT | SCT | ISOL |
| 35. Kerala | ISOL | ISOL | SCT | SCT | ISOL |
| 36. Lakshadweep | DRY | ISOL | ISOL | ISOL | ISOL |

% Station Reporting Rainfall

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

Weather Warning during next 5 days

- **06 April (Day 1):** Thunderstorm accompanied with squall and hail very likely at isolated places over Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya. Thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal, Jharkhand and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning very likely at isolated places over Madhya Maharashtra and Marathwada. Thunderstorm accompanied with gusty winds very likely at isolated places over interior Tamilnadu, north Kerala, Interior Karnataka, Telangana, West Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Haryana, Chandigarh & Delhi and South West Uttar Pradesh. Dust/thunderstorms very likely at isolated places over Rajasthan.
- **07 April (Day 2):** Heavy rain very likely at isolated places over Meghalaya. Thunderstorm accompanied with squall and hail very likely at isolated places over Gangetic West Bengal, Jharkhand and Odisha. Thunderstorm accompanied with squall very likely at isolated places over Bihar, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with gusty winds & lightning very likely at isolated places over Madhya Maharashtra and Marathwada. Thunderstorm accompanied with gusty winds very likely at isolated places over interior Tamilnadu, Interior Karnataka, Telangana, Vidarbha, Chhattisgarh, and Sub-Himalayan West Bengal & Sikkim.
- **08 April (Day 3):** Heavy rain very likely at isolated places over Sub-Himalayan West Bengal & Sikkim. Thunderstorm accompanied with squall and hail very likely at isolated places over Utrakhhand and Odisha. Thunderstorm accompanied with squall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Bihar, north Uttar Pradesh and Punjab. Thunderstorm accompanied with gusty winds & lightning very likely at isolated places over Madhya Maharashtra, Marathwada and south Konkan & Goa. Thunderstorm accompanied with gusty winds very likely at isolated places over interior Tamilnadu, Kerala, Interior & Coastal Karnataka, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal and East Madhya Pradesh.
- **09 April (Day 4):** Thunderstorm accompanied with squall and hail likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Utrakhhand. Thunderstorm accompanied with squall likely at isolated places over Punjab. Thunderstorm accompanied with gusty winds likely at isolated places over Kerala, and Haryana, Chandigarh & Delhi.
- **10 April (Day 5):** Thunderstorm accompanied with squall and hail likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Utrakhhand. Thunderstorm accompanied with squall likely at isolated places over Punjab and north Uttar Pradesh. Thunderstorm accompanied with gusty winds likely at isolated places over Haryana, Chandigarh & Delhi.

Weather Outlook for subsequent 2 days from 11th to 13th April 2018

- Isolated to scattered rain/thundershowers likely over most subdivisions of the country, except parts of Gujarat and Rajasthan, where the weather is likely to remain dry.

Salient Advisories

- As thunderstorm accompanied with squall and hail very likely at isolated places over **Jammu & Kashmir** and **Himachal Pradesh** on 9th and 10th, over **Uttarakhand** from 8th to 10th, over **Sub Himalayan West Bengal & Sikkim** on 6th, over **Gangetic West Bengal** and **Jharkhand** on 7th and over **Odisha** on 7th & 8th April, it is advised to use hail net for orchard crops to protect from mechanical damage. Arrange mechanical 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 thunderstorm accompanied with squall very likely at isolated places over **North Uttar Pradesh** and **Punjab** on 8th to 10th, over **Nagaland, Manipur, Mizoram & Tripura** on 6th and 7th, over **Assam & Meghalaya** on 7th, over **Gangetic West Bengal** and **Jharkhand** on 6th, over **Bihar** on 7th & 8th and over **Sub Himalayan West Bengal & Sikkim** on 8th April, thunderstorm accompanied with gusty winds very likely at isolated places over **Odisha** on 6th, **Sub Himalayan West Bengal & Sikkim** on 7th and over **Gangetic West Bengal** and **Jharkhand** on 8th April, provide support to banana, young fruit plants and vegetables to avoid the crops from lodging due to strong winds. Keep harvested crops at safer places
- As thunderstorm accompanied with gusty winds and lightning very likely at isolated places over **Madhya**

Maharashtra and Marathwada on 6th to 8th, over **Konkan & Goa** on 8th April, thunderstorm accompanied with gusty wind very likely at isolated places over **Haryana, Chandigarh and Delhi** on 9th and 10th, over **interior Tamil Nadu** from 6th to 8th, over **Interior Karnataka** on 6th to 8th, over **Coastal Karnataka** on 8th and **Telangana** on 6th and 7th, over **north Kerala** on 6th and over **Kerala** on 8th April, provide support to banana, young fruit plants and vegetables to avoid lodging. Undertake propping in sugarcane.

- In view of thunderstorm/ lightning very likely at isolated places over **Madhya Maharashtra and Marathwada** during 6th to 8th April and over **Konkan & Goa** on 8th, farmers are advised avoid working in the fields and keep cattle in shed during thunderstorm and lightning period.
- As rain/ snow likely at most/many places over **Jammu & Kashmir** on 9th and 10th, at many places over **Uttarakhand** from 8th to 10th, over **Himachal Pradesh** on 9th and 10th, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Keep harvested crops at safer places.
- As rain/thundershowers would occur at many places over **Arunachal Pradesh** from 6, 8th to 10th, over **Assam & Meghalaya** on 9th and 10th and **Nagaland, Manipur, Mizoram & Tripura** during the period, over **Andaman & Nicobar islands** from 7th to 9th over **Sub-Himalayan West Bengal & Sikkim** from 6th to 9th and over **Gangetic West Bengal** on 7th April, along with heavy rain very likely at isolated places over Meghalaya on 7th and over Sub-Himalayan West Bengal & Sikkim on 8th, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Keep harvested crops at safer places.
- Utilizing the realized and expected rainfall, continue sowing of *Ahu* and *Bau* rice in Assam. Continue sowing of summer green gram in **Gangetic West Bengal, Chhattisgarh and Punjab**. Continue sowing of cowpea in **Rajasthan and Gujarat**.
- As dry/ mainly weather would prevail continue harvesting of wheat in **Rajasthan, Madhya Pradesh and Delhi** and mustard in Rajasthan and Punjab.

Detailed Zonewise Agromet Advisories

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

- **Realised Rainfall:** Rainfall occurred in Pithoragarh district of Uttarakhand during the week and weather remained mainly dry/dry over rest of the region.
- **Advisories:**
 - As thunderstorm accompanied with squall and hail very likely at isolated places over Jammu & Kashmir and Himachal Pradesh on 9th and 10th, over Uttarakhand from 8th to 10th, thunderstorm accompanied with squall very likely at isolated places over North Uttar Pradesh and Punjab on 8th to 10th, it is advised to use hail net for orchard crops to protect from mechanical damage. Arrange mechanical 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 thunderstorm accompanied with gusty winds very likely at isolated places over Haryana, Chandigarh and Delhi on 9th and 10th, provide support to young fruit plants and vegetables to prevent the crops from lodging due to strong winds. Keep harvested crops at safer places.
 - As rain/ snow likely at most/many places over Jammu & Kashmir on 9th and 10th, at many places over Uttarakhand from 8th to 10th, over Himachal Pradesh on 9th and 10th, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Keep harvested crops at safer places.
- **Jammu & Kashmir:**
 - Continue preparation of trenches and polyhouses for raising seedlings of vegetables in Cold Arid Zone.

Continue sowing of cucurbit seeds in poly bags for early nursery raising inside polyhouses. Continue training and pruning in orchards.

- In Sub Tropical Zone, continue transplanting of tomato, brinjal and chilli. Continue direct sowing of okra, bottle gourd, bitter gourd and pumpkin. Continue digging up of matured tubers of potato.
- In Intermediate Zone, continue transplanting of cucurbits and vegetables. Continue planting of orchards.
- Continue sowing of seeds of tomato, brinjal, chilli, capsicum, knolkhol, kale in hot beds as well as in raised beds under open conditions in Valley Temperate Zone. Seedlings of vegetables prepared under protected conditions may be transplanted.
- There are chances of attack of yellow rust and leaf spot in wheat in Sub Tropical Zone, if observed apply Propiconazole (Tilt) @ 0.1% 2-3 sprays and repeat at 15 days interval after current spells of rain.
- **Uttarakhand:**
 - In mid and high hills of Bhabar and Tarai Zone, continue nursery sowing of brinjal, tomato, capsicum and chilli. Continue sowing of barnyard millet and French bean. Undertake transplanting of brinjal, chilli and capsicum in valley.
 - Continue sowing of French bean and okra in Hill Zone. Undertake transplanting of brinjal, tomato, capsicum etc.
 - In Bhabar and Tarai Zone, there are chances of leaf spot disease in cole crops, spray Mancozeb @ 2.5 g/litre of water after current spells of rain.
- **Himachal Pradesh:**
 - In Sub-Montane and Low Hill SubTropical Zone, continue sowing of sunflower in low and mid-hill areas. Continue sowing of green gram and black gram. Continue sowing of spinach, coriander and fenugreek. Continue nursery preparation of summer vegetables, raising of seedlings of cucurbits in polythene bags in poly house.
 - Continue nursery sowing of vegetables like chilli, tomato, capsicum and sowing of bhindi, gourd etc. in Mid Hills Sub Humid Zone. Undertake transplanting of coloured capsicum, tomato, khira etc. in the green houses.
 - In High Hill Temperate Dry Zone, clean the polyhouse and prepare beds for nursery of vegetables. Complete the grafting work in apple nursery.
 - For control of downy mildew in garlic, spray Diathane M 45 2.5 g or Bavistine 1 g per litre of water after current spells of rain in Sub-Montane and Low Hill Tropical Zone.
- **Punjab, Haryana & Delhi:**
 - Continue sowing of okra and cucurbits in Western Zone of Punjab. Continue transplanting of chilli. Continue harvesting of late sown mustard.
 - In Western Plain Zone of Punjab, continue sowing of summer moong and mash. Continue harvesting of matured mustard in clear weather.
 - In Undulating Plain Zone of Punjab, continue planting of sugarcane. Continue transplanting of cucurbits. Continue sowing of summer Mash and moong.
 - In Central Plain Zone of Punjab, continue sowing of cucurbits, okra and cowpea and transplanting of brinjal, chilli and tomato.
 - In Western Zone of Haryana, continue harvesting of late sown mustard. Continue sowing of green gram, black gram and planting of sugarcane. Continue sowing of lady's finger, bottle gourd, cucumber, ridge gourd and summer radish. In Eastern Zone of Haryana, continue planting of spring sugarcane.
 - In Delhi, in present weather condition, harvesting of timely sown wheat crop is advised. Harvested crops should be properly tied to avoid being carried away by winds. Adequate drying of harvested grains before storage should be done. In view of increasing temperature and wind velocity, farmers are advised to irrigate late sown wheat crop in milking and grain filling stage. Farmers are advised to start sowing of green gram. Variety: - Pusa Visal, Pusa Ratna, Pusa 5931, Pusa Baisakhi, PDM-11, SML-32, SML-668, Samrat. Seed treatment with crop specific Rhizobium culture as well as phosphorus solubilising bacteria is also advised. Farmers are advised to ensure proper moisture before sowing for optimum germination.
- **Uttar Pradesh:**
 - In Allahabad district of Central Plain Zone, continue harvesting of matured mustard. Continue sowing of green gram and black gram. Apply irrigation in okra, Lobia and Rajma according to the need and apply 50 kg urea/ha in standing crops.
 - Continue sowing of okra and cucurbits in Eastern Plain Zone. Complete harvesting of matured mustard and pea. Continue sowing of green gram and black gram. Undertake harvesting of matured gram and redgram.
 - In Varanasi district of Central Plain Zone, continue intercultural operations in cucurbit crops. Continue harvesting of matured barley. Continue planting of spring sugarcane. Continue sowing of okra. In Kanpur district, undertake sowing of green gram. Continue transplanting of vegetables like tomato and chilli. Complete sowing of maize and black gram. Apply irrigation in wheat at milk stage. Undertake harvesting of matured gram.
- **Rajasthan:**

- As dust / thunderstorm very likely at isolated places over Rajasthan on 6th, provide support to young fruit plants and vegetable crops. Keep harvested produce at safe places.
- Continue harvesting of matured mustard and cumin in Jodhpur district of Arid Western Plain Zone. Apply irrigation in vegetables. Undertake harvesting of wheat and gram.
- In Sub Humid Southern Plain and Aravalli Hill Zone, continue harvesting of matured wheat. Continue sowing of guar and cowpea. Apply irrigation in summer groundnut at flowering stage.
- In Irrigated North Western Plain Zone, continue planting of sugarcane. Apply irrigation in wheat at milk stage and in gram at pod formation stage.
- In Bikaner district of Arid Western Plain Zone, apply irrigation in wheat and in orchards. Apply recommended dose of fertilizers and manures along with irrigation water in orchards. Continue direct sowing of cucurbits.
- Continue sowing cucurbitaceous vegetables like melon, bottle gourd, ridge gourd, bitter gourd, pumpkin and smooth gourd etc. and nursery raising of brinjal and chilli in Flood Prone Eastern Plain Zone. Undertake harvesting of matured wheat.
- In Semi Arid Eastern Plain Zone, continue harvesting of wheat and barley.
- In Sub Humid Southern Plain and Aravalli Hill Zone, in cucurbitaceous crops, if attack of red pumpkin beetle is found, spray Diclorvos 76 EC (DDVP) @ 1 g per litre of water.
- **Animal Husbandry**
- In Jammu & Kashmir, maintain proper hygienic conditions within the sheds. Avoid excessive milk feeding to new born calves.
 - In Western Zone of Punjab, give special care to new born calves as day temperature is rising. Deworming should be done in calves regularly. Vaccinate animals against FMD.
 - In Rajasthan, infection like TPR and Pox in sheep and goats and CRD and Ranikhet in poultry birds may occur due to present weather conditions, undertake proper vaccination of livestock and poultry.
- **Apiculture:**
 - In Jammu & Kashmir, shift the bee colonies near the late sown mustard crop.

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

- **Realised Rainfall:** Rainfall occurred in East Singhbhum and West Singhbhum districts of Jharkhand, Bankura district of Gangetic West Bengal, Cooch Behar and Malda districts of Sub-Himalayan West Bengal & Sikkim, Balasore, Gajapati, Keonjhar, Koraput, Mayurbhanj, Navrangpur districts of Odisha during the week. Weather remained mainly dry/dry over rest of the region.
- **Advisories:**
 - As thunderstorm accompanied with squall and hail very likely at isolated places over Sub Himalayan West Bengal & Sikkim on 6th, over Gangetic West Bengal and Jharkhand on 7th and over Odisha on 7th & 8th April, it is advised to use hail net for orchard crops to protect from mechanical damage. Arrange mechanical 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 thunderstorm accompanied with squall very likely at isolated places over Gangetic West Bengal and Jharkhand on 6th, over Bihar on 7th & 8th and over Sub Himalayan West Bengal & Sikkim on 8th April, thunderstorm accompanied with gusty winds very likely at isolated places over Odisha on 6th, Sub Himalayan West Bengal & Sikkim on 7th and over Gangetic West Bengal and Jharkhand on 8th April, provide support to banana, young fruit plants and vegetables to prevent the crops from lodging due to strong winds. Keep harvested crops at safer places.
- **Odisha:**
 - In Eastern Ghat High Land Zone, summer rice crop is at (six to nine week) late tillering to PI stage in main field. Alternate wetting and drying of land is advisable during tillering phase and keep standing water up to 5cm during PI stage. As fruit setting has started in mango, irrigation should be given at an interval of 15 days for more fruiting. During fruiting stage of mango, spray Naphthalene Acetic Acid (NAA) 40 mg to decrease fruit dropping. Increased temperature may favour the egg laying of stem borer in rice in the main field. To attract the butterflies, place 4 Pheromon Traps/acre, collect the adults and destroy them by burning or by burying them under soil.
 - In Mid Central Table Land Zone, undertake harvesting of matured crops of green gram and black gram.
 - In North Eastern Ghat Zone, continue sowing of summer cowpea.
 - In Northeastern Coastal Plain Zone, in rice maintain water depth upto the base of the crop followed by weeding when the crop is around 3-4 leaf stage. Continue harvesting of late sown mustard and rapeseed.
 - In West Central Table Land Zone, early sown summer sunflower is at 25 days. Go for hoeing and weeding.
 - In Northeastern Coastal Plain Zone, due to rise in temperature, fruit & shoot borer attack in brinjal will aggravate. To control it spray Neem oil 300 ppm @ 5ml/litre of water at initial stages. At later stages spray Thiodicard @ 300g/acre.

- **Bihar:**
 - In South Bihar Alluvial Zone, farmers are advised to harvest and thresh matured oilseed, lentil, wheat and lathyrus crops in clear weather and keep it in safe place after threshing. Precaution should be taken in view of scattered rainfall forecast in this week. Keeping in view of rainfall forecast and high wind speed, it is advised to keep precaution in spraying of weedicide in green gram and black gram.
 - In North West Alluvial Plain Zone, continue the sowing of summer maize varieties such as Suwan, Deoki, Ganga 11, Shaktiman-1, 2, 3, 4. Continue sowing of green gram and black gram. Undertake sowing of vegetables like lady's finger, pumpkin, cucumber, sponge gourd *etc.*
 - In North East Alluvial Zone, continue sowing of summer vegetables such as okra, pumpkin, cucumber, sponge gourd ridge gourd and bitter gourd.
- **Jharkhand:**
 - In South Eastern Plateau Zone, continue harvesting of matured chickpea, lentil, pigeon pea and mustard in clear weather. Keep it at safe places. Continue intercultural operations in summer rice.
 - In Central and North eastern Plateau Zone, apply irrigation in gram at pod filling stage. Continue sowing of okra. Undertake weeding in green gram.
 - In Western Plateau Zone, apply irrigation in summer moong. Maintain the water level in transplanted rice and broadcast urea after 25-30 days of transplanting. Apply irrigation in wheat at milk to grain filling stage.
- **West Bengal:**
 - As rain/thundershowers would occur at many places over Andaman & Nicobar islands from 7th to 9th, over Sub-Himalayan West Bengal & Sikkim from 6th to 9th and over Gangetic West Bengal on 7th April along with heavy rain very likely at isolated places over Sub-Himalayan West Bengal & Sikkim on 8th, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Keep harvested mustard and lentil crops at safer places.
 - In the New Alluvial Zone, prepare seed bed for planting jute. Undertake sowing of bhindi crop.
 - In the Hill Zone, continue planting of healthy rhizomes of ginger and turmeric. Ensure proper drainage in the wheat field. Avoid irrigation to maize crop as rainfall is expected.
 - In the Terai Zone, keep 3-5 cm of water level in Boro paddy field. Do not irrigate rice field as light rainfall has been forecast. Undertake sowing of jute.
 - In the Laterite and Red Soil Zone, carry out hand weeding in rice crop and keep 2 cm water level.
 - In the Old Alluvial Zone, undertake seed collection and sowing of jute.
 - In the Terai Zone apply Imidachlorpid @ 1ml/5 litres of water or Thiomethoxam @ 1g/3 litres of water for white fly, hoppers or aphids in chilli crop at vegetative stage. Install pheromone traps @ 2 per bigha for management of fruit fly in cucurbits on a non rainy day.
 - In the New Alluvial Zone, to prevent thrips in onion crop, spray Imidachlorpid @ 0.5ml/ litre of water.
 - In Old Alluvial Zone, to control brown spot incidence in Boro rice, spray Carbendazim @ 1g/liter of water and to control rice Stem borer, apply Phorate 10G @ 3 Kg/Bigha after current spells of rain.
 - In the Coastal Saline Zone, make chemical trap by hanging the flesh of snails mix with pesticide like Monocrotophos or Chlorpyrifos in some places of Boro paddy field for preventing Gandhi bug at anthesis stage. Spray Endosulfan @ 1.5 ml per liter of water for caterpillar attack in Mung bean crop at vegetative stage on a non rainy day.
 - In the Laterite and Red Soil Zone, spray Tricyclozole 75WP@ 1g/lit of water for blast/brown spot in Boro rice at flowering stage. Spray Mancozeb @ 2.5 ml per litre of water for blight disease in sesame crop at vegetative stage after current spells of rain.
- **Andaman & Nicobar Islands:**
 - In Andaman Islands, apply bio-control agents, Trichoderma viridi or Pseudomonas fluorescence @ 2.5 kg/ha to control bacterial wilt in solanaceous vegetables during rain free days.
 - In the Nicobar Islands, make basin around the coconut tree to harvest rain water.
- **Animal Husbandry**
 - Keeping in view of increasing temperature, in South Bihar Alluvial Zone, farmers are advised to vaccinate the animals to protect from foot and mouth disease, bovine ephemeral fever (aadhaya). Give clean drinking water and keep them in shed and airy places. Vaccinate the poultry to protect from ranikhet, gambora (IBD) and fowl pox diseases.
 - In Andaman & Nicobar Islands, provide electrolyte powder in drinking water to poultry birds to prevent heat stress during day times.
 - In Odisha, as the temperature is increasing. Provide sufficient clean drinking water to animals. Provide gunny bag covering outside the cowshed and sprinkle water. Avoid grazing of animals during the peak period of the day i.e 11.00 AM to 3.00 PM.
- **Fisheries**
 - In the Coastal Saline Zone, apply Potassium Permanganate Solution and Lime in pond water if death of carp takes place due to red wound at the tail.

- In the Old Alluvial Zone, for dry pond or new pond, cultivate the bottom of the pond with Dhaincha seed @ 1-1.5 kg /bigha area for 30-45 days and remove aquatic weed from pond body.
- In Andaman Islands, prepare the nursery pond for the next fish breeding season.

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

- **Realised Rainfall:** Rainfall occurred in Upper Siang district of Arunachal Pradesh, in Chirang, Dhubri, Goalpara, Hailakandi and Kokrajhar districts of Assam, East Garo Hills, East Khasi Hills, Ribhoi and West Garo Hills districts of Meghalaya, North Tripura and West Tripura districts of Tripura during the week. Weather remained mainly dry/dry over rest of the region.
- **Advisories:**
 - As rain/thundershowers would occur at many places over Arunachal Pradesh from 6, 8th to 10th, over Assam & Meghalaya on 9th and 10th and Nagaland, Manipur, Mizoram & Tripura during the period, along with heavy rain very likely at isolated places over Meghalaya on 7th, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops.
 - As thunderstorm accompanied with squall very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura on 6th and 7th, over Assam & Meghalaya on 7th, provide support to banana, young fruit plants and vegetables to prevent the crops from lodging due to strong winds. Keep harvested produce at safe places.
- **Assam & Meghalaya, Arunachal Pradesh:**
 - In Arunachal Pradesh, undertake sowing of cucurbits, French bean and okra. Carry out land preparation for Jhum rice. Undertake sowing in clear weather.
 - In Meghalaya, continue sowing of cucurbits like cucumber, pumpkin, bottle gourd, ash gourd, squash, etc. Undertake transplanting of chilli and brinjal crops after. Carry out harvesting of mustard/ rapeseed and pea/chickpea/lentil at the earliest as there is a chance of rain on 9th & 10th April.
 - In Lower Brahmaputra Valley Zone of Assam, undertake land preparation and sowing of Bao rice. Continue planting of sugarcane, pineapple, citrus plants, ginger and turmeric. Carry out harvesting of wheat crop as early as possible as there is chance of rain in the coming 5 days.
 - In Upper Brahmaputra Valley Zone, continue sowing of maize after current spells of rain. Continue transplanting of Ahu rice seedlings and nursery sowing of Bao rice (varieties - Maguri, Panikekua, Amona, Negheri etc.). Select areas having higher land submergence for Bao rice cultivation. Undertake land preparation and planting of colocasia.
 - In the Hill Zone of Assam, carry out harvesting of mature maize cobs and mature onion crop. Continue sowing of Early Ahu rice (direct seeded) with dwarf varieties such as Luit, Kapilee, IR-36, Kalinga 3 etc. and tall varieties such as Baghlami, Rangadoria, Ahujaha, Kolamanik, etc.
 - In the Barak Valley Zone, continue land preparation/sowing of ridge gourd and sponge gourd. Undertake planting of banana suckers.
 - In the Central Brahmaputra Valley Zone, in view of rainfall is forecast for the next 5 days, postpone harvesting of mature wheat/Rabi pulses and land preparation/sowing of Jute for next 5 days. Continue land preparation and sowing of Bao rice (varieties - Maguri, Kekua Bao, Negheri Bao, Tara Bao etc.).
 - In the North Bank Plain Zone, continue land preparation/sowing of Bau rice (varieties Maguri, Panikekua, Amona, Negheri etc.). Continue sowing of okra (varieties Pusa Sawani, ArkaAnamika, Parbhdani Kranti etc.). Continue land preparation/sowing of direct seeded Ahu rice (varieties Banglami, Rangadoria, Ahu joha, Rasi etc.). Continue sowing of Varieties of Ridge gourd like Pusa Nasdar, AAUJ-1, AAUJ-2, AAUC-3 and sponge gourd like Pusa Chikni. Undertake planting of HYV ginger (Nadia, Karkai, Maran, Jorhat, chaina etc.) & turmeric (Shillong type, CL-24, PTS-38, PCT-13, VK-145, etc.). Undertake land preparation for summer pulses like green gram and black gram.
 - In the Barak Valley Zone, to control the attack thrips in chilli crop, spray Rogor or Dimethoate @ 1.5 ml per litre of water after current spells of rain.
- **Nagaland, Mizoram, Manipur and Tripura:**
 - In Manipur, provide drainage to pre-kharif rice, Rabi maize and cucurbit crops. Carry out harvesting of potato.
 - In Nagaland, provide irrigation to brinjal crop. Undertake sowing of ginger and turmeric.
 - In Manipur, spray Dichlorovos 36 EC @ 0.5ml/litre of water or Cypermethrin @ 2ml/litre of water for thrips/leaf minor in onion crop during bulb formation stage.
 - In Mizoram, continue harvesting mature potato. Carry out harvesting of mature fruits of capsicum, brinjal and chilli. Undertake sowing of rice (Jhum), maize (Jhum), ginger, turmeric, cowpea and okra crops.
 - In Tripura, continue transplanting of the young seedlings of summer brinjal and tomato to the main field. Undertake transplanting of Jhum rice seedlings in the main field. Complete the sowing of cowpea.
- **Animal Husbandry**
 - In the Hill Zone and Lower Brahmaputra Valley Zone of Assam, vaccinate cattle against FMD, HS and BQ.
 - In Nagaland, vaccinate poultry birds against coccidiosis and Ranikhet diseases. Vaccinate pigs against FMD & swine fever and cattle/sheep/goat against FMD, Hemorrhagic Septicemia, Black Quarter.

- In the North Bank Plain Zone, vaccinate poultry birds against Ranikhet disease.
- In the Lower and Central Brahmaputra Valley Zones, to control anemia in 4 and 14 days piglet, give 'Imferon' injection after consulting local veterinary doctor.
- **Fishery**
 - In the Hill Zone and Lower Brahmaputra Valley Zone of Assam, prepare the pond for new batch of fishes. Drain the water from the pond; dry up for 15-20 days and remove the upper layer of the bottom soil, then plough it and add lime. After 7-15 days of application of lime, add cow-dung and mix it properly. Add fertilizer 7-15 days after addition of cow-dung.
 - In the Barak Valley Zone, for better profitability from the fish pond it is advisable to fish rearing culture silver barb (China Puthi) @ 15 % with Silver Carp 20%, Catla 15% , Rohu 15%, Grass Carp 10%, Mrigal 20% and common Carp 5%.
 - In Meghalaya, feed common carp brooders with protein rich diet for proper maturation of eggs.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT]

- **Realised Rainfall:** Weather remained mainly dry/dry over the region during the week.
- **Advisories:**
 - **Maharashtra:**
 - As thunderstorm accompanied with gusty wind and lightning very likely at isolated places over Madhya Maharashtra and Marathwada on 6th to 8th, over Konkan & Goa on 8th April, provide support to banana, papaya, young fruit plants and vegetables to avoid lodging. Undertake propping in sugarcane. Farmers are advised to avoid working in the fields and keep cattle in sheds during thunderstorm and lightning period.
 - In Konkan, undertake harvesting of early maturing rice varieties in clear weather & keep harvested produce in safer place. Continue the harvesting of 80 to 85% matured mangoes in morning and evening hours. Keep the harvested fruits in shade to prevent spongy tissue disease and to protect from heat. Continue harvesting of cowpea, kulthi and wal during morning hours.
 - In North Konkan, due to temperature variation, there is possibility of immature fruit dropping in mango, apply irrigation for alphonso mango @ 150 to 200 litres of water at fortnight interval. There is forecast of high speed wind (gusty) during next five days, provide mechanical support to fruits bearing branches of mango to avoid fruit drop and bark damage. It is also advised to protect newly planted fruit orchards from high wind speed by giving support to seedlings.
 - In Madhya Maharashtra, prevailing day temperature is favourable for attack of early shoot borer in sugarcane, apply Chlorantriliprole 18.5% SC @ 3 to 4 ml or Chlorantraniliprol granule 0.4% @ 18.75 kg/ha. or Chloropyriphos 20 % @ 15 ml per 10 litres of water. If there is shortage of irrigation water, apply irrigation in alternate furrow. Apply second dose of Nitrogen @ 100 kg (227 kg Urea) per ha after 6-8 weeks of planting sugarcane. Apply irrigation at an interval of 8-10 days. Spread 5 tonnes trash per ha for maintaining soil moisture. Apply irrigation to summer groundnut at 10-12 days interval. If incidence of leaf roller and leaf miner is observed in groundnut, spray Cypermetrin 20 SC @ 4 ml per 10 lit water.
 - In Central Plateau Zone, apply irrigation to summer groundnut at 10-12 days interval. If incidence of leaf roller and leaf miner is observed in groundnut, spray Cypermetrin 20 SC @ 4 ml per 10 lit water. Undertake harvesting of matured onion in clear weather and keep harvested produce in safer place.
 - In Marathwada, apply irrigation to summer sunflower and maize at 8 days interval. After harvesting of rabi crops undertake ploughing in fallow lands immediately.
 - In Vidarbha, to minimize evaporation in orchards and vegetables, mulch with crop residue or trash or polythene. Apply irrigation to vegetable crops and orchards. To control attack of thrips in cucumber, ridge gourd, water melon, musk melon spray 4 % neemark.
 - **Gujarat:**
 - In South Gujarat Heavy Rainfall Zone, continue sowing of cluster bean and cowpea crops and harvesting of sweet potato. Apply irrigation in groundnut, rice and pulse crops as per need. Maintain water level of 2-3 cm in transplanted rice field. Undertake planting of Elephant fruit yam and Greater Yam, if irrigation facility is available.
 - In Bhal and Coastal Zone, under high temperature condition, cover papaya fruits using gunny bags and provide support to heavy fruiting plants. Apply irrigation in pomegranate, sapota, lemon and papaya orchards; pluck matured fruits regularly.
 - In North West Zone of Gujarat, carry out weeding and intercultural operations in timely sown pearl millet, and vegetable crops. For the better development of mango fruits, apply Nitrogenous fertilizer or Ammonium sulphate @ 2 kg /plant followed by irrigation.
 - In Middle Gujarat Zone, decrease the interval between two irrigations in pearl millet crop. Carry out

intercultural operations in timely sown groundnut and vegetable crops. Undertake harvesting of matured fruits of papaya.

- In South Saurashtra Zone, carry out weeding and intercultural operations in timely sown groundnut, green gram, black gram, sesame and sugarcane crops. Apply irrigation in sesame, green gram, black gram, groundnut at regular interval and in vegetable crops at the flowering and fruiting stage.
 - In North Gujarat Zone, carry out intercultural operations in groundnut, pearl millet, sesame, green gram, cowpea and vegetable crops. Continue harvesting of matured papaya fruits.
 - In North Saurashtra Zone, apply irrigation in groundnut (flowering stage) and mango orchard.
 - In North Saurashtra Zone, for the control of thrips infestation in green gram and black gram, spray Lambda Cyheloثرin @10 ml /10 litres of water.
- **Animal Husbandry**
 - In Gujarat, keep animals under shade during noon hours and avoid feeding between 11 to 15 hrs. Make arrangement of curtains for poultry house.

CENTRAL INDIA [M.P., CHHATTISGARH]

- **Realised Rainfall:** Rainfall occurred in Bastar district of Chhattisgarh during the week. Weather remained mainly dry/dry over the region during the week.
- **Advisories:**
 - **Madhya Pradesh:**
 - In Jhabua Hill Zone, apply irrigation in green gram and black gram. Stop irrigation in mature crop of garlic crop and timely dig out the bulbs. Undertake picking of matured okra, brinjal, green chilli, fenugreek, spinach and cucurbitaceous crops.
 - In Nimar Valley Zone, undertake sowing of okra crop.
 - In Vindhya Plateau Zone, continue sowing of green gram and black gram. Complete harvesting/threshing of wheat and gram.
 - In Satpura Plateau Zone, maintain optimum moisture level in cucurbitaceous crops by applying light and frequent irrigation. Undertake mulching (plastic) to reduce evapotranspiration rate. Apply irrigation in vegetables.
 - In Grid Zone, continue sowing of green gram.
 - Apply light irrigation in wheat at dough stage. Continue intercultural operations in vegetables in Central Narmada Valley Zone.
 - Apply light irrigation in wheat at milk stage in Kymore Plateau and Satpura Hill Zone. Continue harvesting of matured lentil, alsin and sunflower. Continue sowing of cucurbits and land preparation for sowing of summer moong and urad.
 - Continue intercultural operations in vegetables followed by irrigation in Bundelkhand Zone. Continue sowing of summer moong.
 - In Malwa Plateau Zone, apply light irrigation in wheat. Continue sowing of cucurbits, chilli, tomato and brinjal crops in the nursery. Continue sowing of green gram and black gram. Continue transplanting of young seedlings of tomato, chilli and cole crops.
 - In Satpura Plateau Zone, there are chances of powdery mildew attack in mango at flowering/fruit setting stage, which causes poor fruit setting and later on fruit dropping. Spray Carbendizim (Bavistin) @ 1.5g or Sulphex @ 3.0g per litre of water.
 - **Chhattisgarh:**
 - In North Hill Zone, apply irrigation in summer rice, sugarcane, vegetable and fruit (mango, Litchi) crops as per soil moisture condition. Undertake deep ploughing in harvested fields. Continue sowing of pumpkin, cucumber, sponge gourd etc. Undertake threshing of wheat and other rabi crops. Dig out the tubers of onion and garlic from the fields.
 - In Bastar Plateau Zone, undertake sowing of sweet corn (NS- 680 or Suger-75) crop; continue sowing of coriander crop in sunken bed and planting of summer arvi and bunda. Undertake earthing up in vegetable crops.
 - In Chhattisgarh Plain Zone, undertake intercultural operations in okra, cowpea and cluster bean crops. Provide support to vine vegetable crops. Apply irrigation in vegetable crops, fruit trees (mango, lemon) and banana, papaya seedlings.
- **Animal Husbandry**
 - In Madhya Pradesh, provide mineral mixture and fresh and clean water to birds. Vaccinate the poultry birds to prevent Ranikhet disease. Cattle should be kept in shade and provide clean and fresh water two times a day.
 - In Chhattisgarh, there is a chance of attack of heat stroke in cattle due to present weather condition; provide plenty of drinking water.

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

- **Realised Rainfall:** Rainfall occurred in Chamarajanagar, Hassan, Kodugu, Kolar, Mysuru districts of Karnataka, Palakkad and Wayanad districts of Kerala during the week. Weather remained mainly dry/dry over rest of the region.
- **Advisories:**
 - As thunderstorm accompanied with gusty wind very likely at isolated places over interior Tamil Nadu from 6th to 8th, over Interior Karnataka on 6th to 8th, over Coastal Karnataka on 8th and Telangana on 6th and 7th, over north Kerala on 6th and over Kerala on 8th April, provide support to banana, young fruit plants and vegetables to avoid lodging. Undertake propping in sugarcane.
 - **Kerala:**
 - In the Problem Area Zone, transport rice grains to storehouses after harvesting as light rain is expected. Provide irrigation and mulching to nutmeg plants. Provide shade to pepper and vegetable crops. Irrigate banana plants @ 10-15 litres of water per plant twice a week.
 - In the Northern Zone, provide mulching in coconut basins. Harvest mature mangoes before ripening.
 - In the Central Zone, continue land preparation for ginger and turmeric.
 - In the Southern Zone, provide shade to young rubber plants Do not start tapping before the young leaves get mature.. Apply lime on the trunks in young rubber trees.
 - In the Central Zone, for stem borer attack in rice crop at panicle emergence stage, use 2 CC Trichogramma cards @ 10 pieces in different corners of the field. If the attack is severe, spray Flubendamide @ 2ml per one liter of water. For curling and stunted growth in chilly due to thrips and virus attack, spray Spiromesifen 0.8 mlper litre of water.
 - In the Northern Zone, spray Flubendiamide @ 1.5 ml in10 litres of water for 2-3 times at weekly interval for fruit and shoot borer in okra at flowering and fruit setting stage.
 - In the Southern Zone, spray Pseudomonas Fluorescens @ 2.5 kg/ha to eliminate rice bugs from rice fields.
 - In the Problem Area Zone, for sucking pests, apply Neem oil emulsion @ 65 ml/litre of water in cow pea and @ 25ml/ litre of water in cucurbits.
 - **Andhra Pradesh:**
 - In the North Coastal Zone, harvest sugarcane crop to ground level. Ratoon immediately after harvesting.
 - In the Scarce Rainfall Zone, harvest groundnut crop and store it in closed places as rainfall is expected.
 - In the Southern Zone, carry out harvesting of groundnut crop when 70-80% of plant leaves and stems turn yellow.
 - In the Krishna Godavari Zone, maintain 5cm water from PI to grain hardening stage in paddy crop. Crop should not face water stress at panicle initiation, flowering and milk stages. Carry out harvesting of rice fallow pulses when pods turn black and hard. Harvesting should be done during morning hours to avoid shattering of pods.
 - In the North Coastal Zone, continue planting of sugarcane after sett treatment with Propiconazol @ 1.0 ml/litre for 15 minutes before planting.
 - In the Scarce Rainfall Zone, for the control of leaf folder/stem borer in paddy, spray Chloropyriphos @ 2.5 ml/litre for control. For control of sucking pest like thrips in castor, spray Acepahte @ 1.5 g per litre of water.
 - In the Krishna Godavari Zone, spray Monocrotophos @ 320 ml or Dimethoate @ 400 ml/acre for aphids, jassids and thrips in sesame crop at vegetative stage. Spray Tricyclozole @ 120 g or Isoprothiolin @ 300 ml or Kasugamycin @ 400 ml per acre for neck blast in rice at PI - flowering stage. Spray Monocrotophos @ 320 ml or Dimethoate @ 400 ml/acre for sucking pests in green/black gram (at vegetative stage) and groundnut crop (at vegetative peg formation stage).
 - In the Southern Zone, the present weather conditions are favourable for stem borer in paddy spray Chloripyrifos 2.5 ml or Acephate 1.5 g per litre of water.
 - **Telangana:**
 - In North Telangana Zone, give irrigation to maize crop at before flowering, flowering & milk stages; to sesamum crop immediately after sowing and during flowering stage.
 - In South Telangana Zone, prevailing dry weather conditions are favorable for incidence of aphids in maize. To control, spray Dimethioate @ 2 ml or MithylDemetan @ 2 ml or Acephate @ 1.5 g per litre of water. Under prevailing weather conditions incidence of stem borer is noticed in rice. To control, spray Cartap Hydrochloride @ 2 g or Chlorantriliniprole 20SC @ 0.4 ml per litre of water. For Panicle mite in rice, spray Spiromesifen @ 1.0 ml and Propiconazole @ 1.0 ml per liter of water.
 - In North Telangana Zone, spray Monocrotophos @ 1.6 ml/litre of water for whorl maggot in paddy at tillering to maximum tillering stage. Spray Chlorothalonil @ 2 g or Pyraclostrobin @ 1g/litre of water for early blight in tomato crop. Spray Flubendamide @ 0.3 ml/litre of water at 28 and 35 days for fruit borer in tomato crop. Spray Myclobutanil @ 1 ml/litre of water for powdery mildew in bhindi crop.
 - **Tamil Nadu:**
 - In the Cauvery Delta Zone, carry out harvesting of rice fallow black gram as dry weather is expected. Provide

irrigation to sesame, sugarcane and rice fallow cotton crops.

- In the high rainfall zone, store harvested paddy in protected places as heavy rain is expected. Strengthen the basins around fruit and spices trees for better harvesting of rain water.
- In the North Western Zone, carry out harvesting of groundnut crop.
- In the North Eastern Zone, spray 2 g Carbendazim + Thiram + Mancozeb (1:1:1) mixture in one litre of water or spray NSKE 5% at 50% flowering stage to prevent grain discolouration in rice. To control gall midge in rice, spray Chlorpyrifos 20% EC 1250 ml/ha or Fipronil 5% EC 1000-1500 g/ha or Thiamethoxam 25% WG 100 g/ha.
- In the Western Zone, utilizing expected rainfall, prepare irrigated fallow land for direct sowing cumbu during first week of April. Considering the prevailing weather ploughing may be done for planting turmeric. After ploughing the field apply FYM @ 12.5 tons per hectare.
- In the Southern Zone, due to current weather the leaf miner incidence is observed in Groundnut. If the pest crosses ETL level, spray neem seed kernel extract 500ml.
- In the Cauvery Delta Zone, spray Imidacloprid @ 40ml / acre or Dimethoate 250 ml/acre in 200 litres of water for leaf hopper incidence in the rice fallow cotton fields.
- In the High Rainfall Zone, to control sigatoka leaf spot in banana, spray Propiconazole 1 ml + Teepol 0.5 ml per litre of water.
- In the South Zone, to control fruit rot and die back incidence in chilli at flowering to fruiting stage, spray Copper Oxchloride 0.25% and Zineb 0.15%. Prevailing weather condition is favorable for rice earhead bug at tillering to harvesting stage. To control spray Malathion 50 EC @ 500 ml/ha twice.
- **Karnataka:**
 - In Southern Dry Zone, maintain optimum water level in rice field.
 - In North Transition Zone, complete threshing of *rabi* crops (sorghum, wheat, Bengal gram) and protect the harvested produce from unseasonal rains. Undertake ploughing to reduce the pest and weed incidence in next season. Growing of one line of radish in every two lines of tomato crop is advised to reduce the infestation of fruit rot disease in tomato crop.
 - In Southern Transition Zone, undertake land preparation for sowing of ginger and turmeric.
 - In North Dry Zone, continue ploughing of land which facilitates conservation of rainwater due to pre-monsoon showers.
 - In North East Transition Zone, undertake earthing-up in sugarcane crop in order to protect the crop from early shoot borer infestation.
 - In Central Dry Zone, apply irrigation in horticulture crops as per need.
 - In Eastern Dry Zone, for soil moisture conservation in mango orchard, weeding and crop residues mulching is recommended.
 - In Coastal Zone, apply irrigation in horticultural crops once in 5-7 days. Install 12 Pheromone traps/hectare in brinjal and okra crop fields to monitor shoot and fruit borer pests.
 - In Hill Zone, undertake harvesting of completely ripened bunch of pepper. Undertake deep ploughing in harvested rice field, so that the soil pathogens will die and in turn it will help to reduce pest incidence for the next rice crop.
 - In Southern Dry Zone, to manage early shoot borer pest in sugarcane, spray Fipronil @ 0.3 gm or Chloropyrophose @ 2 ml / litre of water and to manage thrips pest in tomato spray Oxydemeton Methyl @ 1ml / litre of water.
 - In Southern Transition Zone, spray Trycyclozole @ 0.6 g/litre or Carbendazim 1g/litre of water against blast disease in rice crop.
 - In North East Dry Zone, due to increase in day temperature incidence of leaf spot was noticed in groundnut; for control, spray Hexaconazole @ 1ml/litre or Carbendazim @ 1g/litre of water.
 - In North Transition Zone, mango is in flowering and fruit setting stage; for control of powdery mildew and sucking pest, spray Carbaryl @ 4 g + Bavistin @ 1g/litre of water.
- **Animal Husbandry**
 - In the South Telangana Zone, vaccinate sheep against ET and cattle against FMD and Hemorrhagic Septicemia diseases.
 - Spray/sprinkle water directly on the body of cattles for 1-5 minutes at an interval of 30 minutes during the hot sunny period of the day.
 - In the Western Zone, considering the increase in temperature, provide 50grams of TANUVAS smart mineral mixture per animal per day with animal feed. Provide adequate drinking water to the cattle.
 - In the Southern Zone of Tamil Nadu, provide half quantity of greens and straw in the morning and half in the evening after milking. Feed cow with mixture of young foliage and dry grass with hay. Give silage after the end of milking. Give concentrate feed in the morning and evening with equal distribution.
 - In North Dry Zone of Karnataka, leave the buffaloes in ponds during afternoon hours or sprinkle the cold water 2-3 times a day on the body of the animals to overcome the heat.

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