



# *National Agromet Advisory Service Bulletin*

*Friday 3<sup>rd</sup> April 2020*  
*(For the period 3<sup>rd</sup> to 7<sup>th</sup> April 2020)*



*Issued by*  
*India Meteorological Department*

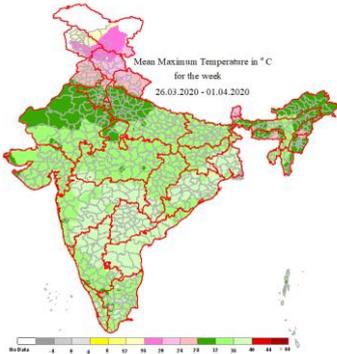
**Weblink For**

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

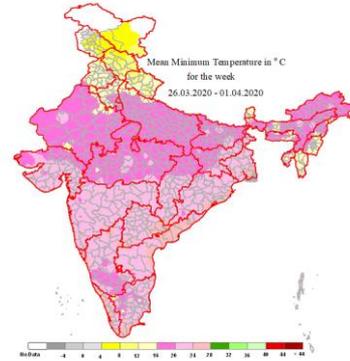
State Composite AAS Bulletin: <http://www.imdagrimet.gov.in/node/3544>

## Spatial distribution of weather parameters for the week ending on 01.04.2020

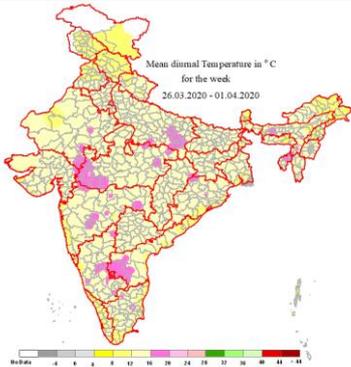
**Mean Maximum Temperature (°C) for the week ending on 01.04.2020**



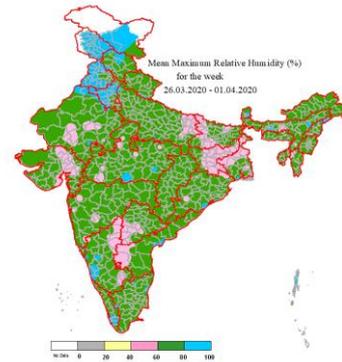
**Mean Minimum Temperature (°C) for the week ending on 01.04.2020**



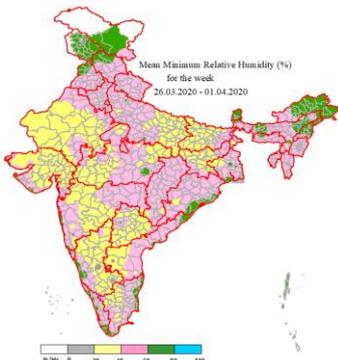
**Mean Diurnal Temperature Variation (°C) for the week ending on 01.04.2020**



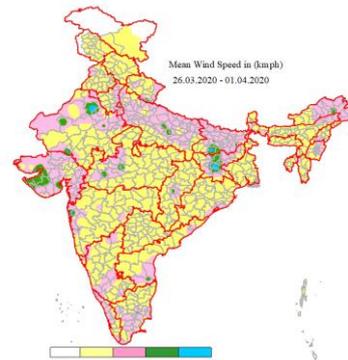
**Mean Maximum Relative Humidity (%) for the week ending on 01.04.2020**



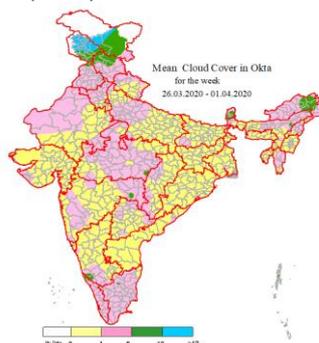
**Mean Minimum Relative Humidity (%) for the week ending on 01.04.2020**



**Mean Wind Speed (km/hr) for the week ending on 01.04.2020**



**Mean Cloud Cover (okta) for the week ending on 01.04.2020**





- Extremely/ Severely wet conditions exist in Srikakulam districts of Andhra Pradesh; Araria, Aurangabad, Banka, Bhabua, Bhagalpur, Bhojpur, East Champaran, West Champaran, Darbhanga, Gaya, Gopalganj, Jahanabad, Jamui, Katihar, Khagaria, Lakhisarai, Madhepura, Muzaffarpur, Nalanda, Nawada, Patna, Purnea, Rohtas, Samastipur, Saran, Sheikhpura, Siwan, Supaul, Vaishali, Arwal districts of Bihar; Kheda, Sabarkantha, Surat, Gandhinagar, Narmada, Navsari, Aravalli, Chhota Udepur, Mahisagar, Junagarh, Porbandar, Botad, Gir Somnath, Morbi districts of Gujarat; Ambala, Gurgaon, Hisar, Jind, Karnal, Mahendragarh, Mewat, Rohtak, Bhiwani, Faridabad, Kurukshetra, Sirsa, Sonapat, Yamuna Nagar, Kaithal, Panipat, Rewari, Panchkula, Fatehabad, Jhajjar, Palwal districts of Haryana; Bilaspur, Chamba, Kangra, Hamirpur, Sirmaur, Solan, Una districts of Himachal Pradesh; Jammu, Reasi, Udhampur districts of Jammu; Betul, Bhind, Bhopal, Gwalior, Harda, Khandwa, Morena, Shajapur, Ujjain, Balaghat, Chhatarpur, Chindwara, Dindori, Shahdol, Umaria, Anuppur, Singrauli districts of West Madhya Pradesh; Ahmednagar, Aurangabad, Buldhana, Nagpur, Wardha, Gondia Districts of Maharashtra; Angul, Boudhgarh, Cuttack, Jharsuguda, Kendrapara, Nawapara, Kandhamal, Sambalpur, Sundargarh districts of Orissa; Bhatinda, Ferozepur, Gurdaspur, Jalandhar, Kapurthala, Mansa, Ludhiana, Patiala, Moga, Ropar, Sangrur, Faridkot, Nawanshahar, Sas Nagar, Mohali, Fatehgarh Sahib, Tarn Taran, Barnala districts of Punjab; Bikaner, Churu, Sri Ganganagar, Jaisalmer, Jalore, Nagaur, Hanumangarh, Ajmer, Alwar, Bharatpur, Bhilwara, Bundi, Chittorgarh, Jaipur, Jhunjhunu, Kota, Sawai Madhopur, Sikar, Udaipur, Baran, Dausa, Rajsamand, Karauli districts of Rajasthan; Chandigarh, Diu districts of Union Territory; Allahabad, Ambedkar Nagar, Azamgarh, Bahraich, Balrampur, Barabanki, Basti, Faizabad, Gonda, Gorakhpur, Jaunpur, Kannauj, Kanpur City, Kheri, Lucknow, Maharajganj, Mirzapur, Pratapgarh, Siddharth Nagar, Sitapur, Sultanpur, Sonbhadra, Varanasi, Sahuji Mah Naga, Sant Ravidas Nagar, Aligarh, Auraiya, Baghpat, Bareilly, Bijnor, Badaun, Bulandshahar, Kanshiram Nagar, Etah, Etawah, Firozabad, Hamirpur, Mahamaya Nagar, Mainpuri, Mathura, Moradabad, Muzaffarnagar, Pilibhit, Shahjahanpur, Saharanpur, Sambhal, Shamli districts of Uttar Pradesh; Malda, Burdwan districts of West Bengal; Bokaro, Chatra, Deoghar, Dhanbad, Dumka, Garhwa, Giridih, Godda, Gumla, Hazaribag, Koderma, Lohardaga, Pakur, Palamu, Ranchi, East Singhbhum, West Singhbhum, Jamtara, Simdega, Latehar, Seraikela-Khar, Ramgarh, Khunti districts of Jharkhand; Dehradun, Hardwar, Nainital, Garhwal Pauri, Garhwal Tehri, Udham Singh Nagar, Bageshwar districts of Uttarakhand; Bilaspur, Durg, Janjgir, Jashpur, Korba, Koriya, Kowarda, Raigarh, Raipur, Surguja, Balod, Balrampur, Surajpur districts of Chhatisgarh; New Delhi district of Delhi Adilabad, Medak, Kamareddy districts of Telangana.
- Extremely/Severely dry conditions exist in Changlang, Lohit, Papumpara districts of Arunachal Pradesh; Cachar, Darrang, Goalpara, Kamrup, Lakhimpur, Nagaon, Dibrugarh, Jorhat, Karbi Anglong, Karimganj, Shonitpur, Nalbari, Golaghat, Tinsukia, Hailakandi, Baksa districts of Assam; Imphal West district of Manipur; East Khasi Hills district of Meghalaya; Aizwal, Champhai, Kolasib, Lunglei, Saiha, Serchhip districts of Mizoram; Mon, Paren districts of Nagaland; Salem, Toothukudi, Virudhunagar districts of Tamilnadu; North Tripura, West Tripura, South Tripura districts of Tripura; Nicobar district of Andaman and Nicobar Islands.
- Moderately wet to moderately dry conditions were experienced in remaining districts in the country.

## Weather Forecast for next 5 days valid upto 0830 hours of 8<sup>th</sup> April, 2020

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table below.
- ◆ No large change in maximum temperatures over the country during next 2-3 days.

### 5 Day Rainfall Forecast (MID-DAY)

3<sup>rd</sup> April 2020

Met-Sub-Division	03-Apr Today	04Apr Sat	05Apr Sun	06Apr Mon	07Apr Tue
1. Andaman & Nicobar Islands	DRY	DRY	DRY	ISOL	DRY
2. Arunachal Pradesh	FWS	SCT	ISOL	ISOL	ISOL
3. Assam & Meghalaya	SCT	ISOL	ISOL	DRY	ISOL
4. N. M. M. & T.	SCT	ISOL	ISOL	DRY	ISOL
5. S.H. West Bengal & Sikkim	ISOL	ISOL	ISOL	ISOL	ISOL
6. Gangetic West Bengal	ISOL	ISOL	ISOL	DRY	ISOL
7. Odisha	ISOL	ISOL	ISOL	ISOL	SCT
8. Jharkhand	DRY	DRY	ISOL	ISOL	SCT
9. Bihar	DRY	DRY	DRY	DRY	ISOL
10. East Uttar Pradesh	DRY	DRY	DRY	ISOL	ISOL
11. West Uttar Pradesh	DRY	DRY	DRY	ISOL	SCT
12. Uttarakhand	DRY	DRY	ISOL	ISOL	FWS
13. Haryana, Chd & Delhi	DRY	DRY	DRY	ISOL	SCT
14. Punjab	DRY	DRY	ISOL	ISOL	SCT
15. Himachal Pradesh	DRY	DRY	ISOL	ISOL	SCT
16. J & K and Ladakh	DRY	DRY	ISOL	ISOL	SCT
17. West Rajsthan	DRY	DRY	DRY	ISOL	ISOL
18. East Rajasthan	DRY	DRY	DRY	ISOL	ISOL
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	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	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	ISOL	DRY	DRY	DRY	DRY
25. Marathawada	ISOL	ISOL	ISOL	DRY	DRY
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	ISOL	ISOL
30. Rayalaseema	DRY	DRY	DRY	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	DRY	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	DRY	DRY	DRY	ISOL	ISOL
33. North Interior Karnataka	DRY	DRY	DRY	DRY	DRY
34. South Interior Karnataka	ISOL	DRY	DRY	ISOL	ISOL
35. Kerala & Mahe	ISOL	ISOL	ISOL	SCT	SCT
36. Lakshadweep	DRY	DRY	DRY	DRY	DRY

#### % 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

**03 April (Day 1): ♦ Thunderstorm accompanied with lightning, hail & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and **with lightning** at isolated places over Marathwada, Vidarbha, south Chhattisgarh, Odisha, Gangetic West Bengal and Coastal Andhra Pradesh & Yanam.

**04 April (Day 2): ♦ Thunderstorm accompanied with lightning & gusty winds** (speed reaching 30- 40 kmph) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha and south Chhattisgarh; **with lightning** at isolated places over Marathwada and Odisha.

**05 April (Day 3): ♦ Thunderstorm accompanied with lightning & lightning** at isolated places over East Madhya Pradesh, Odisha, Marathwada, Tamilnadu, Puducherry & Karaikal.

**06 April (Day 4): ♦ Thunderstorm accompanied with lightning & gusty winds** (speed reaching 30- 40 kmph) likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Odisha, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka, Kerala & Mahe; **with lightning** at isolated places over Jammu, Kashmir, Ladakh Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, Rayalaseema.

♦ **Duststorm/Thunderstorm accompanied with lightning & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over north Rajasthan.

**07 April (Day 5): ♦ Thunderstorm accompanied with lightning, hail & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand and Himachal Pradesh; **with lightning & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamilnadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe; **with lightning** at isolated places over East Uttar Pradesh and Bihar.

♦ **Duststorm/Thunderstorm accompanied with lightning & gusty winds** (speed reaching 30-40 kmph) likely at isolated places over north Rajasthan.

### Weather Outlook for subsequent 2 days from 8<sup>th</sup> to 10<sup>th</sup> April, 2020

- Scattered to fairly widespread rain/thundershowers likely over Western Himalayan Region and Northeastern States. Isolated rain/thundershowers over northern plains.
- Isolated to Scattered rain/thundershowers likely over south peninsula and East India.
- Weather is likely to be dry over rest of the country.

### Salient advisories

#### ➤ **Advisory for Desert Locust:**

In Arid Western Plain Zone of Rajasthan, where there is attack of desert locust in Bikaner and Jaisalmer districts, apply Chloropyrifos (50%) @ 1 ml/litre or (20%) @ 2.5 ml/litre of water in standing crops.

- As **Thunderstorm accompanied with lightning hail & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 3<sup>rd</sup> and over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand and Himachal Pradesh on 7<sup>th</sup>, with **lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha and south Chhattisgarh on 4<sup>th</sup>, over Odisha on 6<sup>th</sup>, over Punjab, Haryana, Chandigarh & Delhi, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe on 6<sup>th</sup> & 7<sup>th</sup> and over Sub-Himalayan West Bengal & Sikkim, Jharkhand, West Uttar Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam and Rayalaseema on 7<sup>th</sup> along with **Duststorm/Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over north Rajasthan on 6<sup>th</sup> and 7<sup>th</sup>; with **lightning** at isolated places over south Chhattisgarh, Gangetic West Bengal

and Coastal Andhra Pradesh & Yanam on 3<sup>rd</sup>, over Marathwada and Odisha from 3<sup>rd</sup> to 5<sup>th</sup>, over Vidarbha on 3<sup>rd</sup> & 6<sup>th</sup>, over Tamil Nadu, Puducherry & Karaikal on 5<sup>th</sup>, over East Madhya Pradesh on 5<sup>th</sup> & 6<sup>th</sup>, over Jammu, Kashmir, Ladakh Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Chhattisgarh, Telangana, Rayalaseema on 6<sup>th</sup> and over East Uttar Pradesh and Bihar on 7<sup>th</sup>, provide mechanical support to banana, young fruit plants and vegetables and carry out propping up in sugarcane to prevent the crops from lodging due to strong winds. Provide hailnet for orchard crops to protect from mechanical damage. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm/dust storm.

➤ As **rain/thundershowers** likely at many places over Arunachal Pradesh on 3<sup>rd</sup> and over Uttarakhand on 7<sup>th</sup>, avoid irrigation, intercultural operations and application of plant protection measures and fertilizers to the standing crops. Keep harvested produce at safer places.

➤ Undertake the following operations:

- sowing of ginger and turmeric in South Interior Karnataka.
- planting of sugarcane, papaya, ginger and turmeric in Central Brahmaputra Valley Zone of Assam.
- land preparation for sowing of *Jhum* rice in Tripura.
- sowing of sesame, summer *moong*, *urd*, banana, papaya, cucumber, *guar*, ridge gourd, okra, pumpkin, etc. in Odisha.
- land preparation and seed collection for jute cultivation in West Bengal.
- field preparation for sowing summer rice in Bihar.
- continue sowing of crops like groundnut, pearl millet, sesame, green gram, cowpea and muskmelon North Gujarat.
- undertake sowing of summer *moong* in Bundelkhand Zone of Madhya Pradesh.
- sowing of okra and transplanting of tomato, brinjal and chilli in Sub-Tropical Zone of Jammu & Kashmir.
- sowing of Bt cotton or *desi* cotton in Western Zone of Punjab.
- sowing of sunflower, green gram and black gram in Sub Montane and Low Hills Sub Tropical Zone of Himachal Pradesh.
- transplanting of chilli and tomato of Uttarakhand and West Uttar Pradesh.
- field preparation for cotton crop in Arid Western Plain Zone of Rajasthan.
- cultivation of summer vegetables like bitter gourd, *tinda*, ridge gourd, bottle gourd, cowpea, cluster bean and coriander in Vidarbha.

## *Detailed Agromet Advisories*

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

**Realised Rainfall:** Significant rainfall occurred in Pathanamthitta of Kerala. Weather remained dry/mainly dry over rest of the region.

- **Advisories:** As **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe on 6<sup>th</sup> & 7<sup>th</sup> and over Coastal Andhra Pradesh & Yanam and Rayalaseema on 7<sup>th</sup> with **lightning** at isolated places over Coastal Andhra Pradesh & Yanam on 3<sup>rd</sup>, over Tamil Nadu, Puducherry & Karaikal on 5<sup>th</sup> and over Telangana and Rayalaseema on 6<sup>th</sup>, provide mechanical support to banana and vegetables and carry out propping up in sugarcane to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm/dust storm.

#### **Kerala**

- In Southern Zone, go for sowing of cowpea in rice fallow.
- In High Altitude Zone, go for planting material preparation for pepper.
- In Problem Area Zone, ideal time to plant elephant foot yam. Also, adopt control measures for mango fruit fly; take care to remove the fallen mangoes attacked by fruit fly; use pheromone traps to control fruit fly; spray 20 ml Malathion + sugar in 10 litres of water during fruit development stage.
- In Central Zone, weather is congenial for sucking pests in vegetables; apply 2 % neem oil emulsion once in a week or spray Lecanicillium lecani at 20 gm per litre of water.

#### **Andhra Pradesh**

- In Scarce Rainfall Zone, complete harvesting of pigeon pea. Present weather conditions are congenial for whitefly incidence in blackgram and greengram; spray Monocrotophos @ 1.6 ml or Dimethoate @ 2.0 ml or Acetamiprid @ 0.2 g per litre of water at 7-10 days interval by alternating the chemicals.
- In East Godavari district, undertake harvesting of rice when 80% of the grains are matured. After harvesting the harvested produce should be left in field for 2-3 days for sun drying. In case of any unseasonal rain at harvesting stage in paddy, spray 5% salt solution to prevent seed germination.
- In Krishna Godavari Zone, due to prevailing dry weather, moisture stress may occur in rice and maize; give light and frequent irrigations as required or spray Potassium Nitrate 1.0 kg per acre or 2% urea to mitigate stress condition.
- In Southern Zone, continue harvesting of rabi groundnut when 70-80% of groundnut plant leaves, stems turn yellow in colour and inside of the pod shell might have turned black colour.
- In North Coastal Zone, to avoid fruit drop in mango, spray Planofix @ 1 ml per 4.5 litres of water.

#### **Telangana**

- In Southern Telangana Zone, prevailing weather conditions are congenial for incidence whorl maggot and stem borer in rice; spray Cartap Hydrochloride 50%SP @ 2 g/litre of water.
- In North Telangana Zone, prevailing weather conditions are favourable for powdery mildew in sesame crop; spray Micobutanil @ 1g or wettable sulphur @ 3 g per litre of water.

#### **Tamil Nadu**

- In Cauvery Delta Zone, harvest matured blackgram and greengram; after drying well under sun, thresh and separate the grains; dry the grains to 9% moisture before storage.

- In North Western Zone, groundnut crop is at flowering and pod development stage; apply foliar spray of groundnut rich @ 2.0 kg/400 litres of water during morning hours to increase pod yield.
- In South Zone, due to the prevailing weather condition there may be incidence of wilt disease in pepper; farmers are advised to soil drench each vine with 10gm of Trichoderma Viride, 10gm of Pseudomonas and 10gm of Bacillus per litre water.
- In Hilly Zone, to control nematode in carrot crop, apply Paecilomyces lilacinus @ 10 kg / ha at the time of sowing along with well decomposed farm yard manure.

#### **Karnataka**

- In Coastal Karnataka, undertake harvesting of fully matured watermelon. For control of leaf spot and rot in cardamom, spray 1% Bordeaux mixture or 3 gm Copper-oxy-Chloride / litre of water.
- In North Interior Karnataka, complete harvesting of chick pea, cotton, safflower and sorghum crops. Apply irrigation in alternate rows of sugarcane crop. Due to prevailing weather, infestation of leaf spot may be noticed in groundnut crop; spray Hexaconazole or Difenconazole @ 1.0 ml / litre of water.
- In South Interior Karnataka, provide protective irrigation to the dry land horticultural crops and other field crops depending on soil and crop condition. Continue sowing of ginger and turmeric. Continue harvesting of pepper. To manage sheath blight in rice, spray Hexaconazol @ 1 ml/liter of water.

#### **Animal Husbandry:**

- In Tamilnadu, vaccinate cattle, sheep and goat against foot and mouth disease (FMD) and poultry against Ranikhet disease.
- In Karnataka, apply 4-6-inch thick hay thatch as roofing material on animal shelter. Spray water on the floor and roof of shelter periodically during peak hours which lowers the temperature and consequently reduces the heat load on animals. It is advised to leave the buffaloes in ponds during afternoon hours or sprinkle the cold water 2-3 times a day on the body of the animal to overcome the heat.

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

**Realised Rainfall:** Significant rainfall occurred in East Siang and Upper Siang districts of Arunachal Pradesh and Dhemaji district of Assam. Weather was mainly dry in rest of the region.

- **Advisories:** As **Thunderstorm accompanied with lightning hail & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 3<sup>rd</sup>, with **lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 4<sup>th</sup>, provide mechanical support to banana, young fruit plants and vegetables and carry out propping up in sugarcane to prevent the crops from lodging due to strong winds. Provide hailnet for orchard crops to protect from mechanical damage. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm/dust storm.
- As **rain/thundershowers** likely at many places over Arunachal Pradesh on 3<sup>rd</sup>, avoid irrigation, intercultural operations and application of plant protection measures and fertilizers to the standing crops. Keep harvested produce at safer places.

#### **Arunachal Pradesh**

- In Arunachal Pradesh, harvest mature tomatoes and pods of peas; stacking may be done to support the plant. Spray Rodomil M2-72 @ 2.5 g/litre of water 3 times during clear weather at 7 days interval against late blight disease in tomato.

#### **Assam & Meghalaya**

- In Hill Zone of Assam, continue land preparation/ sowing of summer vegetables, green gram and black gram. Keep harvested crop produce in safe places.
- In Upper Brahmaputra Valley Zone, continue nursery sowing of Ahu rice and land preparation for planting of banana. Continue land preparation/planting of turmeric and ginger. Maintain 5±2 cm depth

of standing water in the Boro rice fields. Lowland areas with higher water sub mergence which are not suitable for growing normal rice can be used for cultivating Bao or deep water rice. Complete the planting of sugarcane setts in the main field.

- In Lower Brahmaputra Valley Zone, continue sowing of jute and summer vegetables.
- In Barak Valley Zone, continue sowing of direct seeded Ahu rice and planting of banana. Spray Captan 50 WP 0.2% @ 2g/litre of water or Dofolatan 0.2% on a clear day against anthracnose or fruit rot iseases in Chili .
- In Central Brahmaputra Valley Zone, continue sowing of Capsularis jute and summer vegetables like lady's finger, bottle guard, pumpkin, ridge guard, cucumber, etc. Undertake planting of sugarcane, papaya, ginger and turmeric.
- In Lower Brahmaputra Valley Zone and Central Brahmaputra Valley Zone, apply Chloropyriphos 20 EC at the concentration of 0.02% solution or Carbofuran 3G @ 4 kg/bigha during clear weather against major insect pests like, whorl maggot, hispa, stem borer etc. at tillering stage of summer rice.
- In North Bank Plain Zone, farmers of flood affected low lying areas are advised to collect suitable varieties of Bao rice as March-April is the ideal time for sowing. Continue planting of banana, sugarcane, papaya, ginger and turmeric. There is chance of stem borer attack in citrus plants during this period; apply paste made by mixing lime, water and 5% Malathion dust on the stems of the plants up to a height of about 1m from the ground to prevent the attack.
- In Meghalaya, continue harvesting of matured pea pods as well as rapeseed/mustard in the morning. Continue transplanting of 1 month old seedlings of cucurbits, brinjal, chilli, tomato and capsicum; irrigate immediately after transplanting. Continue sowing of pumpkin and bottle gourd.

#### **Manipur, Mizoram, Tripura and Nagaland**

- In Manipur, after harvesting of potato, spray 3% Boric acid during curing period under shed to avoid insect pest infestation during storage.
- In Mizoram, continue land preparation for sowing of Urd/ green gram and cowpea. Continue harvesting of matured maize cobs.
- In Tripura, undertake land preparation for sowing of Jhum rice and harvesting of rabi maize. Apply light irrigation to green gram and cow pea crops. To manage powdery mildew disease in cucurbits, apply Sulfex or any other Sulphur based fungicide @ 3gm per litre of water during clear weather twice at 7 days interval.
- In Nagaland, undertake land preparation for sowing of Jhum rice and planting of ginger. Undertake sowing of maize. Do not grow tomato, chilly and cucurbits as intercrops with banana since these crops harbor nematodes and aphids, which act as vector of virus spread.

#### **Animal Husbandry**

- In Northeastern region, before the onset of monsoon, immunize the farm cattle against FMD (Foot & Mouth Disease), HS (Hemorrhagic Septicemia) and BQ (Black Quarter) diseases after consultation with local veterinary doctor. Vaccinate pig against Swine Fever.

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

**Realised Rainfall:** Significant rainfall occurred in Kandhamal and Nawapara districts of Odisha. Weather remained dry/mainly dry over the rest of the region.

- As **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over over Odisha on 6<sup>th</sup> and over Sub-Himalayan West Bengal & Sikkim and Jharkhand on

7<sup>th</sup> with **lightning** at isolated places Gangetic West Bengal on 3<sup>rd</sup>, over Odisha from 3<sup>rd</sup> to 5<sup>th</sup> and over Bihar on 7<sup>th</sup>, provide mechanical support to banana and vegetables and carry out propping up in sugarcane to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm/dust storm.

### **Odisha**

- Harvest winter vegetables and mature pods of green gram and black gram. Complete sowing of vegetables, rabi pulses (green gram, black gram) and oilseed crops (sesame). Transplanted paddy is at PI to hard dough (7 - 11 week) stage in main field; apply irrigation and maintain water level up to 5 cm at PI stage and saturation up to hard dough stage. Transplanted onion seedlings are at bulb development (11-14 week) stage in main field; plan for irrigation to the crop at 10 days interval observing soil moisture. Plan for irrigation to sugarcane crop at 10 days interval observing the soil moisture at 5-14week stage of crop. Downy mildew may occur in pumpkin; to control, spray 400g Metalxyl+Mancozeb @ 2g/litre of water or 120g Azoxystrobin+Tebuconazole @ 0.6g/litre of water. Sigatoka leaf spot disease in banana destroys large areas of plantation and results in severe reduction in fruit yield; to control, spray 2 g Chlorothalonil 75 WP per litre of water. Take plant protection measures on clear days.

### **Bihar**

- Prepare field for sowing summer paddy. Carry out harvesting of wheat crop and matured fruits of vegetable crops. Complete harvesting of mature crop of mustard on a sunny day and store in a dry place. Continue sowing of summer green gram. Complete sowing of the summer vegetables such as okra, pumpkin, cucumber, sponge gourd, ridge gourd, bitter guard. Spray Imidacloprid @ 0.25 ml per litre of water during clear sky if there is high infestation of aphids in vegetable crops on a clear day.

### **Jharkhand**

- Undertake sowing of summer maize. Harvest wheat, chickpea and gram crops. Spray Imidachloprid 1ml or Quinolphos 25 EC @ 1ml per litre of water for shoot and fruit borer in brinjal, chilli and tomato; install pheromone trap @ 2-3 traps per acre of crop field for monitoring the fruit borer. There is a chance of blast disease in summer rice crop; to control, spray Carbendazim 50 WP or Tricyclazole (Beam) @ 2g per litre of water during day time during clear weather.

### **West Bengal**

- In Sub-Himalayan West Bengal, carry out weeding in maize crop. Carry out land preparation and collect seeds for jute cultivation. To prevent fruit drop and increase fruit size of mango, spray Planofix @ 3ml along with compound micro nutrient @ 45gm per 15 litres of water. Irrigate cardamom and mustard as per the requirement. Continue harvesting of matured tubers of potato. Spray Fipronil 1.5g per litre of water to control the infestation of stem borer in *Boro* paddy at vegetative stage.
- In Gangetic West Bengal, harvest sunflower crop, sun dry it and carry out threshing. Carry out land preparation and collect seeds for jute cultivation. Spray Profenofos @ 1.5ml/litre of water during evening time to control leaf eating caterpillar in green gram at vegetative stage. There is a chance of stem borer in summer paddy due to rising temperature; spray Triazophos @ 1.2ml or Propenofos @ 1.5ml/liter of water.

### **Andaman & Nicobar Islands**

- Transplant late season vegetables on raised beds with grass mulching. Collect the dropped coconuts from the garden and dry them for copra production. Spray neem seed kernel extract @ 5 % to control white fly for the management of yellow vein mosaic disease in bhendi.

### **Animal Husbandry**

- Provide mineral mixture @ 50 – 60 g to adult and 30-40 g to growing animals every day to boost their immunity.

### **Fishery**

- Monitor water temperature of the pond; if it goes above 30 degree C or if water level goes below 1m depth, go for early harvest and discontinue fish seed production and culture activity; discourage fish breeding.

## WEST INDIA [GOA, MAHARASHTRA, GUJARAT]

**Realised Rainfall:** Significant rainfall occurred Aurangabad district of Marathwada, Nagpur, Wardha of Vidharbha, in Maharashtra. Weather remained dry/mainly dry over the region.

- **Advisories:** As **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Vidarbhha on 4<sup>th</sup>, with **lightning** at isolated places over Marathwada from 3<sup>rd</sup> to 5<sup>th</sup> and over Vidarbhha on 3<sup>rd</sup> & 6<sup>th</sup>, provide mechanical support to banana and vegetables and carry out propping up in sugarcane to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm/dust storm.

### Maharashtra

- In Konkan, undertake harvesting of matured cashewnuts. To control fruit borer in mango, spray Dichlorvas @ 10 ml per 10 liters of water. To control hoppers in mango, spray Dimethoate 30% EC @ 10 ml or Lambda cyhalothrin 5% EC @ 6 ml per 10 liters of water.
- In Madhya Maharashtra, continue harvesting of wheat. Apply fertilizer dose of Nitrogen @100 kg (Urea 217 kg) / ha to 6 to 8 weeks old suru sugarcane in Pune, Solapur, Jalgaon, Kolhapur, Sangli and Satara districts. To control tikka (leaf spot) in groundnut, spray Mancozeb @ 2.5 g in 1 liters of water. To control rust in maize, spray Hexaconazole 5 EC @ 25 ml per 15 liters of water. To control fruit borer in tomato, spray Chlorantraniliprole 18.5% SC @ 3ml per 10 liters of water.
- In Marathawada, continue harvesting of wheat. To control stem borer in sugarcane, spray Chlorpyriphos 20% EC @ 30 ml per 10 liters of water.
- In Vidarbhha, harvest matured wheat, fruits and vegetables as early as possible in Chandrapur, Nagpur, Gondia, Bhandara, Gadchiroli, Akola, Washim, Buldhana, Amravati, Yavatmal & Wardha districts. Keep the harvested produce in safer place. Undertake cultivation of summer vegetables like bitter gourd, tinda, ridge gourd, bottle gourd, cowpea, clusterbean and coriander. To control sap sucking pest on chilli, spray 5 % neemark. To control leaf miner in groundnut, spray Quinalphos 25% @ 28 ml per 10 liters of water.

### Gujarat:

- In Middle Gujarat, continue sowing of summer pearl millet, green gram and cowpea. Apply irrigation in already sown crops as per requirement. Complete threshing of wheat crop. Undertake intercultural operations in vegetable crops.
- In South Gujarat, maintain 2-3 cm water level in transplanted rice fields. Undertake weeding in sugarcane crop and earthing up in sweet potato crop. Undertake sowing of leafy vegetables.
- In Saurashtra and Kutch, complete sowing of green gram. Apply light irrigation to groundnut at flowering stage. Complete harvesting of wheat and chickpea crops. For control of thrips and army worm in sesame, spray neem seed extract 5% and Profenofos @ 20 ml in 10 litres of water.
- In North Gujarat, continue sowing of groundnut, pearl millet, sesame, green gram, cowpea crops and muskmelon. Complete harvesting matured wheat, castor crops and keep harvested produce at safer places.

### Animal Husbandry:

- In Gujarat, for milch animals, regularly follow schedule of 1 kg feed + 50 g mineral mixture per 2 litres of milk yield. Spray phenyl in the animal shed to prevent mosquitoes and flies.

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

**Realised Rainfall:** Significant rainfall occurred in Chhindwara, Betul, Bhopal, and Shajapur districts of Madhya Pradesh and in Balod district of Chhattisgarh. Weather remained dry/mainly dry over the rest of the region.

- **Advisories:** As **Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over south Chhattisgarh on 4<sup>th</sup> and over East Madhya Pradesh on 7<sup>th</sup>; with **lightning** at isolated places over South Chhattisgarh on 3<sup>rd</sup> and over East Madhya Pradesh on 5<sup>th</sup> & 6<sup>th</sup>, provide mechanical support to banana and vegetables and carry out propping up in sugarcane to prevent the crops from lodging due to strong winds. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm/dust storm.

## Madhya Pradesh

- In Malwa Plateau Zone, carry out harvesting of wheat crop at physiological maturity or at 12-14 % grain humidity. Harvest chickpea crop and store safely. Harvest mustard crop in a timely manner because in current weather conditions, there may be loss of seeds due to the crackling of the pods; store at a safe place. Undertake sowing of summer seasons vegetables like lady finger, cluster bean, chilli, tomato, etc. Frequent changes in weather conditions may affect the quality of cauliflower; sell harvested crop immediately. Make irrigation system in mango orchards and apply mulching with native manure when water availability is low. Carry out trimming and pruning of berry plants.
- In the Keymore Plateau Zone, harvest wheat and chickpea crops and store in a safe place. Continue sowing of summer moong. Continue field preparation and sowing of okra, barwati, beans, French beans, etc. after seed treatment with fungicide Bavistin or SAAF at the rate of 2g per kg seeds. For an outbreak of leaf miner virus in mango and lemon, spray Rogar or Metasystok 1.5 ml per liter of water.
- In Vindhya Plateau Zone, prepare field for the sowing of mung, urd and cucurbitaceous vegetables. Continue transplanting of brinjal. Carry out gap filling in mango orchards with new plants. Harvest standing Rabi crops immediately and store the grains at up to 8% moisture.
- In Jhabua Hills Zone, harvest wheat and gram crops; dry them properly carry out threshing and store in a safe place. Dig out mature rhizomes of ginger. Undertake sowing of summer green gram. Apply irrigation to mango at the time of fruit setting. Give timely irrigation and recommended dose of fertilizers to summer cucurbits, okra, spinach and cluster bean crops.
- In the Nimar valley Zone, clean the storage places before storing harvested grains. To control shoot and fruit borer in brinjal crop, collect and destroy infested fruits and shoots by burying them; if pest population is high, spray Spinosad 48 EC @ 1 ml per 4 litres of water.
- In Bundelkhand, undertake sowing of summer moong. Irrigate vegetable fields and fruit orchards and carry out intercultural operations. There is a possibility of red pumpkin beetle and fruit fly attack in cucurbit crops; spray Triazophos 40 E.C. @ 2 ml per litre of water spray in clear sky condition.
- In Gird Zone, apply irrigation to late sown or late variety wheat crops. Harvest matured black gram and chickpea crops. Continue sowing of summer green gram. Continue sowing of cucurbitaceous vegetables.

## Chhattisgarh

- In the Chhattisgarh Plains Zone, carry out harvesting of pulses and oilseeds and store at 8-10 % moisture; harvest mature wheat crop. Carry out field preparation for sowing of maize. Irrigate banana and papaya seedlings once a week; irrigation time should be more in the drip system.
- In Northern Hill Zone, continue harvesting, drying and threshing of wheat, gram, lathyrus, linseed, lentil and mustard crops which was turned wet from the rain; keep clean and healthy seed for sowing for next year. Plough the field and keep it ready for summer crops like sesamum, green gram, black gram and vegetables. Irrigate banana and papaya seedlings once a week; irrigation time should be more in the drip system. Complete planting of sugarcane after treating sugarcane sets with fungicide like Agallol. Carry out intercultural operation in the February sown crops like okra, cowpea and cluster bean followed by irrigation. Attack of stem borer may be seen in summer rice; use of pheromone traps @ 10 Nos./acre; collect and destroy the egg clusters.

## Animal Husbandry

- Provide 50g Iodized salt and 50 to 100 g mineral mixture with green fodder daily to milch animals. Vaccinate cattle against HS disease and Poultry against Ranikhet disease.

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

**Realised Rainfall** : Significant rainfall occurred in all the districts of Himachal Pradesh except Bilaspur, Hamirpur, Sirmaur and Solan; in all the districts of Jammu and Kashmir except Kargil and Leh. Significant rainfall also occurred in Dehradun, Garhwal Tehri, Rudraprayag and Uttarkashi districts of Uttarakhand. Significant rainfall occurred in Baghpat region of west Uttar Pradesh. Jalandhar, Gurdaspur, Kapurthala and Ropar districts of Punjab, in Jind and Sonapat districts of Haryana. Weather remained dry/mainly dry over the region.

- **Advisories:** As **Thunderstorm accompanied with lightning hail & gusty winds** (speed reaching 30-40 kmph) very likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand and Himachal Pradesh on 7<sup>th</sup>, with **lightning & gusty winds (speed reaching 30-40 kmph)**

likely at isolated places over Punjab and Haryana, Chandigarh & Delhi and over West Uttar Pradesh on 7<sup>th</sup> along with **Duststorm/Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over north Rajasthan on 6<sup>th</sup> and 7<sup>th</sup>; with **lightning** at isolated places over Jammu, Kashmir, Ladakh Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand on 6<sup>th</sup> and over East Uttar Pradesh on 7<sup>th</sup>, provide mechanical support to banana, young fruit plants and vegetables and carry out propping up in sugarcane to prevent the crops from lodging due to strong winds. Provide hailnet for orchard crops to protect from mechanical damage. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm/dust storm.

- As **rain/thundershowers** likely at many places over Uttarakhand on 7<sup>th</sup>, avoid irrigation, intercultural operations and application of plant protection measures and fertilizers to the standing crops. Keep harvested produce at safer places.

### **Jammu & Kashmir**

- In Cold Arid Zone, apply irrigation after nursery sowing of vegetables like tomato, brinjal, chilli and capsicum. Continue plantation of fruit plants.
- In Valley Temperate Zone, carry out weeding in vegetables. Carry out weeding followed by hoeing in rabi crops like wheat, oats, lentil, pea, brown sarson and chick pea.
- In Sub-Tropical Zone, continue transplanting of tomato, brinjal and chilli. Continue sowing of okra. To control loose smut in wheat, rogue out affected plants and destroy by burning or deep burying under soil to avoid further dispersal. Install bird perch stands in gram fields or collect the caterpillars of heliothis and kill them manually.
- In Intermediate Zone, continue transplanting of cucurbits and solanaceous vegetables. Weather conditions are congenial for the attack of white rust and/ or downy mildew in mustard crop. If observed, apply Mancozeb @ 0.2% or Copper Oxychloride 50% @ 0.3%. Weather is congenial for the infestation of yellow rust in wheat crop. Keep strict vigil on appearance of disease. If observed, apply Propiconazole (Tilt) 25 EC @ 0.1 % (1ml/litre of water) during clear weather conditions. Take plant protection measures on clear days.

### **Himachal Pradesh**

- In High Hill Temperate Dry Zone, carry out grafting in apple nursery. Apply Chaubatia paste to large wounds after pruning in Apple trees.
- In Sub Montane and Low Hills Sub Tropical Zone, continue sowing of sunflower. Carry out intercultural operations in vegetables like radish, carrot, turnip, spinach, fenugreek, carrot, broccoli and lettuce. Apply mulch in ginger and turmeric. Complete sowing of green gram in irrigated areas. Undertake harvesting of matured mustard. To control tuber moth in potato, spray Chlorpyrifos 20 EC 150 ml in 60 litres of water for one bigha area.
- In Mid Hills Sub Humid Zone, carry out intercultural operations in vegetables like onion, pea and cauliflower. Apply irrigation to all the standing crops. To control the hopper and powdery bug after fruit setting in mango, spray Monocrotophos (Monocil/ mascran/ Macrofos) @ 100 ml per 100 litres of water. Spray Mancozeb @ 600g /200 litres of water in apple orchards on clear days.
- In Mild Hills Sub Humid Zone, apply chaubatia paste at the cut ends of pruned apple trees to prevent them from fungal infections.

### **Punjab, Haryana, Delhi**

- In Punjab, undertake harvesting of early sown wheat and mustard crop on a clear day. Undertake planting of evergreen fruit plants such as citrus, guava, mango, papaya, sapota, litchi, loquat etc.
- In Western Zone of Punjab, monitor the crop fields for infestation of disease/insect-pest and take appropriate measures. Undertake sowing of Bt cotton or desi cotton during this month. Sow seeds in polythene bags to fill gaps in cotton. Apply light irrigation to wheat crop as per need to avoid yield loss due to water stress. Observe the fields for appearance of aphids, if the population reached the economic threshold level (ETL) i.e. 5 aphids/ear head, spray the crop with 20g Actara/Taiyo 25 WG (thiamethoxam)

in 80-100 liter of water per acre. Prevailing weather is favourable for early blight of tomato, spray Indofil M-45 @ 600 gm in 200 litre of water per acre to protect tomato from late blight on a clear day.

- In Undulating Plain Zone of Punjab, carry out important interculture operations in sugarcane.
- In Central Plain Zone of Punjab, apply light irrigation to wheat crop as per requirement so that water stress may not affect the yield of the crop adversely. Monitor the wheat crop for aphid attack, if 5 or more aphids/earhead appears, spray 20 gram of Actara/ Taiyo (Thiamethoxam 25 WG) in 80- 100 liters of water per acre on a clear day.
- In Western Zone of Haryana, due to possibility of dry weather conditions, undertake harvesting of matured mustard crop soon as possible and keep at safe place. Complete sowing of summer green gram crop. Apply irrigation and chemical spray as per needs in late sown wheat, barley and chickpea crops. Monitor for pod borer insect in chickpea and yellow rust in wheat and barley.
- In Eastern Zone of Haryana, harvest the mustard crop at the earliest and sugarcane. Undertake sowing of green gram and lady finger. Install pheromone trap @ 2-3 traps per acre in tomato field for monitoring the fruit borer. Due to high humidity, chances of appearance of yellow rust disease, regularly monitor the crop, if symptom observed, spray 200 ml (Propiconazole 25% EC) in 200 litre water per acre on a clear day. In present weather condition, monitor constantly timely sown seed onion crop against attack of thrips. Constant monitoring of mango mealy bug and leaf hopper are advised in mango.
- In Delhi, undertake harvesting of timely sown wheat crop. Apply light irrigation in all vegetables during morning or evening hours. Undertake sowing of green gram. In view of increasing temperature and wind velocity, irrigate late sown wheat crop in milking and grain filling stage and apply light irrigation in the evening hours. Monitor constantly timely sown seed onion crop against attack of thrips.

#### **Uttar Pradesh:**

- In East Uttar Pradesh, prepare nursery for tomato crops. Continue sowing of green gram, black gram, fodder maize. Continue harvesting and threshing of mature mustard crop. Undertake harvesting and threshing of mature Bengal gram & chick pea crops. Apply light irrigation to wheat crop; for control of rat in wheat crop, apply zinc phosphide treated baits; if symptoms of brown or black rust appears on wheat crop, spray Dithane M- 45 @ 2.5 g or Carbendazim 1.0 g or Propiconazole 1.0 g per litre of water when sky is clear. For controlling attack of thrips in onion, spray Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 gram /litre).
- In West Uttar Pradesh, continue sowing of maize, green gram and black gram. Undertake transplanting of tomato and chilli. Continue harvesting of mustard crop in clear weather when 70% of siliqua turn golden yellow in colour. Avoid irrigation at flowering stage for good fruit setting in mango and citrus. Spray Fenitrothian solution in 1.0 ml /litre of water to prevent outbreak of midge insect in mango. There is a possibility of outbreak of thrips in onion crop, spray Demeton-O-Methyl 25% EC @ 1.5 liters / ha solution in 500-600 liters of water on a clear day.

#### **Uttarakhand**

- In Sub Humid Sub Tropic Zone, avoid irrigation in wheat field. Continue planting of sugarcane. Continue harvesting and threshing in mustard crop. Continue harvesting of potato.
- In Bhabar and Tarai Zone, undertake harvesting of wheat. Continue transplanting of chilli and tomato. To control the juice sucking insect in early transplanted tomato and chilli, spray Sarvangi insecticide on the crop.
- In Hill Zone, undertake weeding in wheat crop. Continue transplanting of tomato seedlings. Carry out mulching in potato after germination. Carry out weeding in vegetable pea. Spray Cypermethrin @ 0.5ml/litre of water on a clear day, if thrips appear on onion; apply second dose after 10-12 days. Avoid any spray of pesticides after flowering in apple trees. Install honey bee boxes during flowering to enhance pollination.

#### **Rajasthan**

- In Arid Western Plain Zone, harvest wheat crop and undertake field preparation for cotton crop.

- In Irrigated North Western Plain Zone, weather is congenial for aphids in mustard; spray Thiamethoxam (25 W.G.) @ 50 g per bigha.
- In Flood Prone Eastern Plain Zone, harvest wheat crop and continue threshing operations.
- In Sub Humid Southern Plain Zone, start harvesting of gram and undertake sowing of bottle gourd.
- In Hyper arid Partial irrigated zone, weather is congenial for attack of termite in standing wheat crop; apply 4.0 litre Chloropyriphos or 300 ml Imidacloprid per ha with irrigation .

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