



National Agromet Advisory Service Bulletin

Friday 24th May 2019
(For the period 24th to 29th May 2019)



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India Meteorological Department

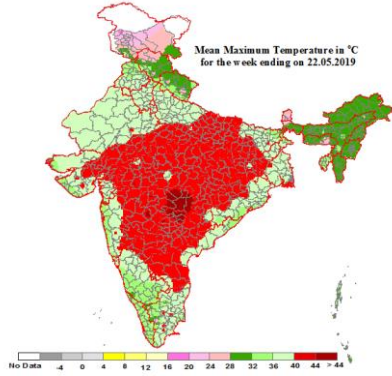
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District AAS Bulletin: <http://www.imdagrimet.gov.in/node/3545>

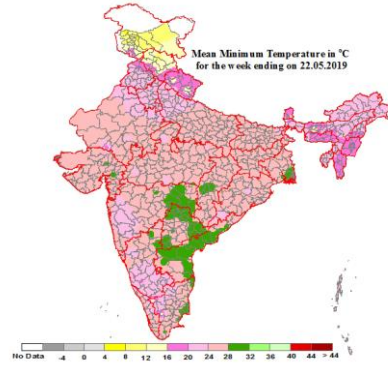
State Composite AAS Bulletin: <http://www.imdagrimet.gov.in/node/3544>

Spatial distribution of weather parameters for the week ending on 22.05.2019

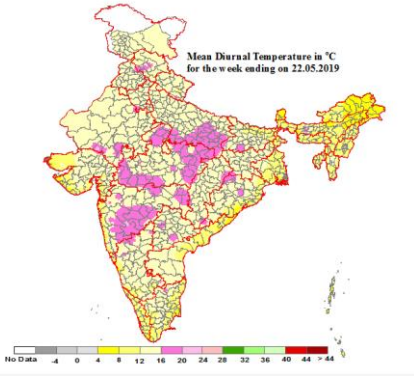
Mean Maximum Temperature (°C) for the week ending on 22.05.2019



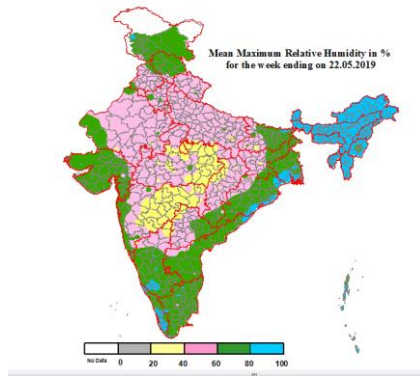
Mean Minimum Temperature (°C) for the week ending on 22.05.2019



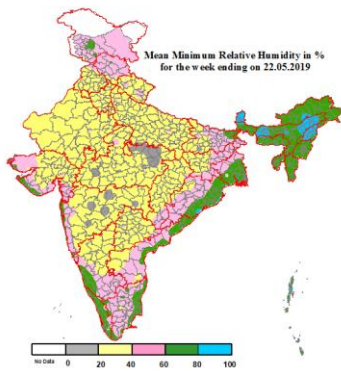
Mean Diurnal Temperature Variation (°C) for the week ending on 22.05.2019



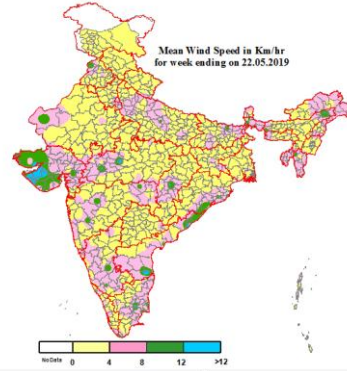
Mean Maximum Relative Humidity (%) for the week ending on 22.05.2019



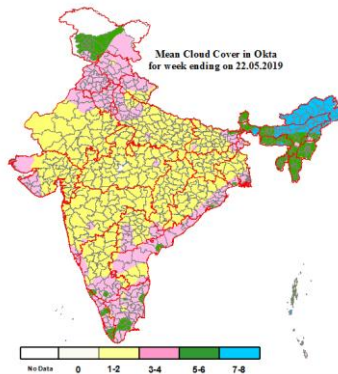
Mean Minimum Relative Humidity (%) for the week ending on 22.05.2019



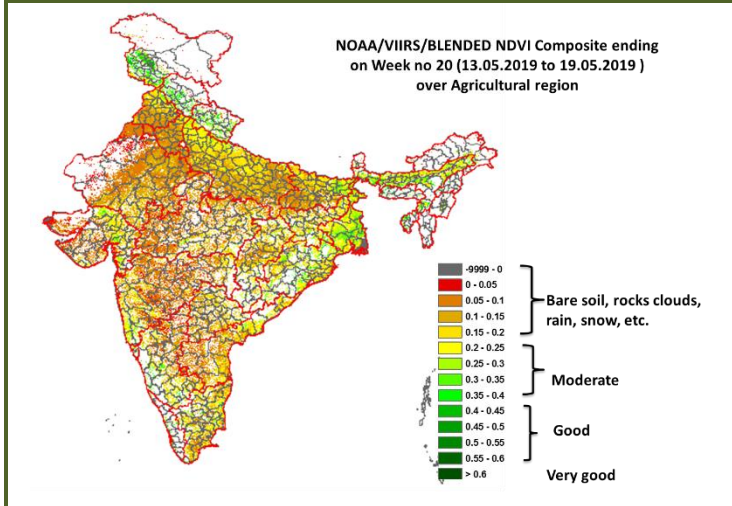
Mean Wind Speed (km/hr) for the week ending on 22.05.2019



Mean Cloud Cover (okta) for the week ending on 22.05.2019

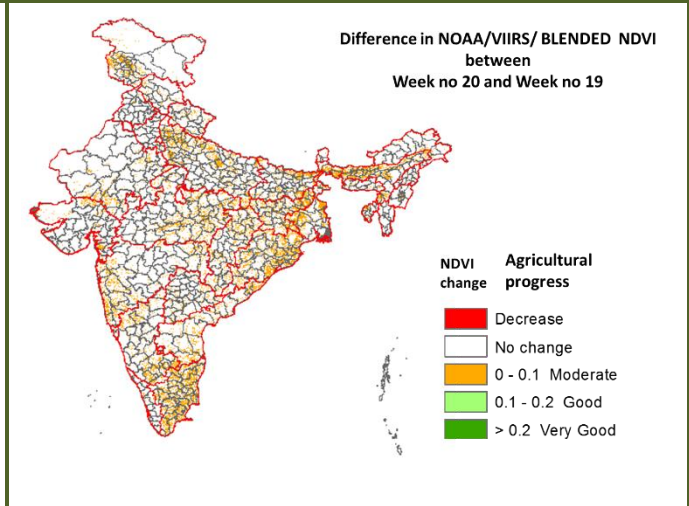


NOAA/VIIRS/BLENDED NDVI composite for the week number 20 (13.05.2019 to 19.05.2019) over Agricultural regions of India



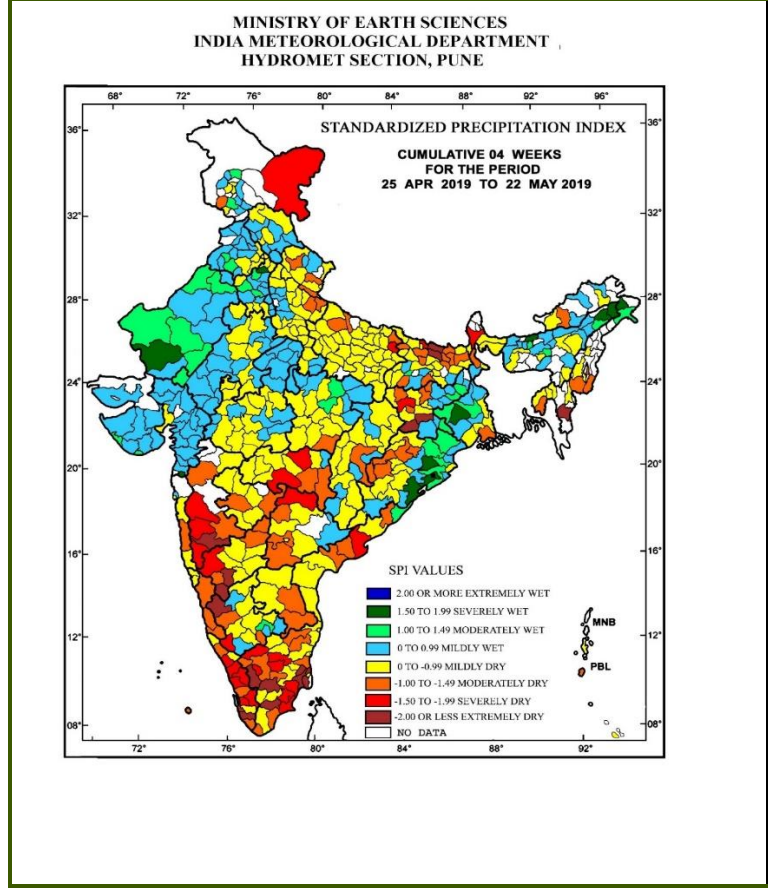
Agriculture vigour is good at few places over valley region of Jammu & Kashmir and isolated places over North Eastern States, Himachal Pradesh and Uttarakhand.

Difference in NOAA/VIIRS/BLENDED NDVI between week number 20 and week number 19



Moderate difference in agricultural vigour was noticed at most places over Tamilnadu, many places over Jammu & Kashmir, East Madhya Pradesh, Chhattisgarh, Odisha, West Bengal, Jharkhand and North Eastern States.

Standardised Precipitation Index Cumulative 4 weeks for the period 25th April to 22nd May 2019



- Extremely/severely wet conditions experienced in Lohit district of Arunachal Pradesh; Dibrugarh, Tinsukia, Baksa districts of Assam; Dhenkanal, Ganjam, Khurda districts of Odisha; Barmer district of Rajasthan & Dadara & Ngr Hav
- Extremely/Severely dry conditions experienced in few districts of TamilNadu & Puducherry; Kerala; Lunglei of Mizoram, Darjeeling district of West Bengal; Simdega, Latehar, Khunti districts of Jharkhand; Darbhanga, Madhubani, Sitamarhi districts of Bihar; Deoria district of Uttar Pradesh; Ladakh (Leh) districts of Jammu & Kashmir; Kolhapur, Pune, Sangli, Satara, Nagpur, Yeotmal districts of Maharashtra; East Godavari district of Andhra Pradesh; Adilabad districts of Telangana; Belgam, Gadag, Haveri, Chamarajanagar, Kodagu, Shimoga districts of Karnataka;

Significant weather features

- The Northern Limit of Monsoon (NLM) continues to pass through Lat. 5°N/Long. 81°E, Lat. 7°N/Long. 88°E, Car-Nicobar and Lat. 13°N/Long. 99°E. Conditions are favourable for further advance of Southwest Monsoon into some more parts of South Bay of Bengal, North Andaman Sea & Andaman Islands during next 48 hours.
- Fairly widespread to widespread rainfall with isolated heavy/very heavy falls are likely over Assam, Meghalaya and Tripura during next 48 hours. Under the influence of a Western Disturbance lying over northeast Afghanistan and adjoining Pakistan, fairly widespread to widespread precipitation likely over Western Himalayan region and isolated to scattered rain/thundershowers over adjoining plains during next 24 hours. Thunderstorm accompanied with gusty winds over Western Himalayan region and Duststorm/Thunderstorm accompanied with gusty winds over adjoining plains are also likely during the same period.
- Heat wave conditions in some parts to severe heat wave conditions in isolated pockets likely over Vidarbha during next 2-3 days. Heat wave conditions in some pockets over northeast Madhya Pradesh and in isolated pockets over East Uttar Pradesh, Madhya Maharashtra, Telangana, Marathwada, Chhattisgarh during next 4-5 days and over Jharkhand and Odisha from tomorrow.

Weather Forecast for next 5 days valid upto 0830 hours of 29th May 2019

Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table below:

Maximum temperatures are likely to remain above normal by 2-3°C over major parts of south peninsula during next 3 days. No significant change in maximum temperatures likely over northwest and central India during next 2 days.

5 Day Rainfall Forecast (Mid-day) 24th May 2019

Met-Sub-Division	24-May Today	25May Sat	26May Sun	27May Mon	28May Tue
1. Andaman & Nicobar Islands	FWS	FWS	FWS	WS	WS
2. Arunachal Pradesh	FWS	FWS	FWS	FWS	FWS
3. Assam & Meghalaya	WS	WS	WS	FWS	FWS
4. N. M. M. & T.	WS	WS	FWS	SCT	SCT
5. S.H. West Bengal & Sikkim	WS	FWS	FWS	FWS	FWS
6. Gangetic West Bengal	ISOL	ISOL	ISOL	ISOL	ISOL
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	DRY	DRY	ISOL
9. Bihar	ISOL	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	ISOL	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	ISOL	DRY	DRY	DRY	DRY
12. Uttarakhand	SCT	ISOL	ISOL	ISOL	DRY
13. Haryana, Chd & Delhi	SCT	DRY	DRY	DRY	DRY
14. Punjab	SCT	DRY	ISOL	DRY	DRY
15. Himachal Pradesh	WS	ISOL	ISOL	ISOL	DRY
16. Jammu & Kashmir	WS	ISOL	SCT	ISOL	DRY
17. West Rajsthan	ISOL	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	DRY	DRY	DRY	DRY	DRY
24. Madhya Maharashtra	DRY	DRY	DRY	DRY	DRY
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	ISOL	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	DRY	DRY	DRY
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. Tamilnadu & Puducherry	ISOL	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	SCT	ISOL	ISOL	ISOL	ISOL
33. North Interior Karnataka	SCT	ISOL	DRY	DRY	DRY
34. South Interior Karnataka	FWS	FWS	SCT	ISOL	ISOL
35. Kerala	FWS	SCT	ISOL	ISOL	ISOL
36. Lakshadweep	SCT	SCT	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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

Weather warning for fishermen

Strong winds speed reaching 35-45 kmph likely over northeast Arabian Sea off north Gujarat Coast. Fishermen are advised not to venture into this area from 26th to 28th May.

Salient advisories based on weather warning

- **Heat Wave Conditions in many parts to severe heat wave** conditions in isolated pockets over Vidarbha; in some parts over northeast Madhya Pradesh and in isolated pockets over Telangana, Madhya Maharashtra, Marathwada, Chhattisgarh and East Uttar Pradesh on 24th, 25th, 26th and Odisha, Jharkhand on 25th. **Heat Wave Conditions in some parts** Vidarbha and northeast Madhya Pradesh and in isolated pockets over Telangana, Madhya Maharashtra, Marathwada, Chhattisgarh, Odisha, Jharkhand and East Uttar Pradesh on 27th and 28th. **Provide light and frequent irrigation to the standing crops to cope up with the excessive evaporative demand. Do soil mulching or mulching with straw to conserve soil moisture. Keep the cattle under shade/shed during noon hours and provide good ventilation in the cattle sheds. Hang wet gunny bags so as to reduce heat in the cattle shed. Provide cool water, easily digestible liquid food and silage for providing nutrient and healthy food. Add mineral mixture, salt water and integrated and concentrated feed in equal ratio for increasing potassium and sodium levels.**
- **Thunderstorm & lightning accompanied with gusty winds (40-50 kmph)** at isolated places very likely over South Interior Karnataka and Tamilnadu on 24th, 25th and 26th; with **gusty winds (30-40 kmph)** at isolated places over Kerala, North Interior Karnataka, Rayalseema, Telangana, Madhya Pradesh, Chhattisgarh, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Odisha, Jharkhand, Bihar, Assam & Meghalaya and Nagaland, Manipur, Mizoram on 24th; Kerala, Rayalseema, Telangana, Sub- Himalayan West Bengal & Sikkim, Bihar, Assam & Meghalaya and Nagaland, Manipur, Mizoram on 25th; Sub-Himalayan West Bengal & Sikkim on 26th; Gangetic West Bengal, Odisha, Jharkhand and Bihar **on 28th**. **Thunderstorm and lightning** at isolated places likely over Odisha on 27th and **duststorm and gusty winds (30-40 kmph)** at isolated places over Punjab, Uttar Pradesh, Rajasthan and Haryana, Chandigarh & Delhi on 24th. **Provide mechanical support to sugarcane, young fruit plants and vegetables. Keep harvested produce at safer places. Keep cattle/goats indoor during thunderstorm period.**
- **Heavy to very heavy rain** at isolated places very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 24th; **Heavy rainfall** at isolated places very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura on 25th; South Interior Karnataka on 24th, 25th, 26th; north interior Tamilnadu on 26th; Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim on 28th. Avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Keep harvested produce at safer places
- **In Mizoram**, as heavy rainfall is forecasted during next 2-3 days, don't prepare lowland rice nursery in this week. Provide drainage around the field of crops/vegetables/fruit at the earliest possible. Postpone normal agricultural operations like ploughing, sowing/ transplanting, application of chemicals etc. at the time of rain occurrence. Broken and damaged branches of mango and mandarin due to strong wind may be pruned and spray with 1% Bordeaux paste in upcoming week.

Weather Outlook for subsequent 2 days from 29th May to 31st May 2019

- Widespread rainfall with isolated heavy falls likely over Andaman & Nicobar Islands, fairly widespread to widespread rainfall likely over Northeast India and isolated rainfall likely over Western Himalayan region, south Peninsular India, East coast and Lakshadweep.
- Dry weather likely over the rest of the country.

Detailed Agromet Advisories

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

Realised Rainfall: Rainfall occurred in Thrissur, Wayanad district of Kerala, M. Malkajgiri district of Telangana, Bagalkote of North Interior Karnataka, Bangalore Rural, Bangalore Urban, Chikkamagaluru, Davangere, Mysuru, Ramanagara of South Interior Karnataka during the week. Weather remained mainly dry over the rest of the region.

Kerala:

- Continue harvesting of matured *Puncha* rice. Undertake land preparation for sowing of *Virippu* rice and start sowing of direct sown paddy crop.
- There is a chance of foot rot in pepper. Prepare a mixture of 2 kg Trichoderma, 90 kg FYM and 10 kg Neemcake. Add 2.5 kg of this mixture to each matured vine to control foot rot of pepper.
- In rubber, fungal disease severely affects leaves of young budded plants, spray Copper oxy chloride or Bordeaux mixture.

Andhra Pradesh:

- In North Coastal Andhra Pradesh, continue land preparation for sowing of green manure crops like bajra, mesta etc. Undertake sowing of sesame.
- In North Coastal Andhra Pradesh high Altitude Tribal Zone undertake harvesting of maize and undertake sowing of green manure crops like Sunhemp @ 12-15 kg/ac, Dhaicha @ 10-12 kg/ac and Pillipesara @ 6-8kg/ac etc. to increase the soil organic carbon.
- In Rayalaseema's scarce rainfall zone, prevailing high temperatures may cause damage to the transplanted saplings of banana. Protect by covering mulch or any other measures.
- In Southern zone of Andhra Pradesh, undertake land preparation for early kharif rice nurseries.

Telangana:

- In Southern Telangana, the prevailing dry weather conditions are congenial for incidence of sucking pests in vegetables. To control, spray Fipronil @ 2ml or Thiomethoxim @ 0.3g per litre of water. Prevailing weather conditions are congenial for the incidence of Shoot & Fruit Borer in Brinjal. To control, spray Flubendiamide @ 0.4 g or Chlorantriliniprole @ 0.2ml per liter of water two times at weekly interval. Prevailing weather conditions are congenial for the incidence of Thrips in Tomato.
- In Northern Telangana, provide light irrigation in vegetables. Spraye potassiam nitrate @ 5g /lit at early hours in vegetables.

Tamil Nadu:

- In Cauvery Delta Zone, undertake nursery sowing of rice for *kuruvai* season.
- In Western Zone, continue planting of late season sugarcane.
- In Coastal Zone, to prevent early shedding of buds and squares in cotton, spray 40 ppm NAA (40 mg of Naphthalene Acetic Acid in one litre of water) at 60 and 90 DAS on the crops.

Karnataka:

- In North Interior Karnataka, complete harvesting of summer groundnut, rice crops and mango fruits. Undertake mulching in sugarcane crop with dry leaves and grass to conserve soil moisture.
- In Coastal Karnataka, continue harvesting of matured cashew and mango fruits.
- In South Interior Karnataka, continue land preparation for sowing of Ginger/turmeric.
- In South Interior Karnataka, in mango, to control fruit drop and fruit fly in mango, spray Carbaryl @4 g/litre of water.

Animal Husbandry

- In Andhra Pradesh, as the day temperatures are increasing, farmers are advised to take necessary measures and protect livestock from heat stress. Provide the sheds with light & ventilation along with cool water for drinking. Provide drinking water to livestock at frequent intervals (4 times a day) to avoid dehydration. Provide the sheds with light & ventilation along with cool water for drinking. Arrest the ammonia smell in the sheds by arranging fans & coolers.
- In Telangana, prevailing weather conditions are congenial for the occurrence of Ranikhet disease in poultry. To prevent the diseases, vaccinate the birds. To protect the poultry birds arrange fans and foggers in sheds, cover the sheds with paddy straw and arrange sprinklers. Feed with wet mash to increase the feed intake and provide cool water for drinking.
- In Karnataka, maintain the optimum room temperature in Sericulture, Poultry and Dairy unit. Keep cattle yard clean and dry. Vaccinate the animals against sepcinia disease before onset of monsoon.

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

Realised Rainfall: Rainfall occurred in Changlang, East Kameng, East Siang, Kurung Kumey, Lohit, Lower Dibang Valley, Papumpare, Tawang, Upper Siang, Upper Subansari and West Siang districts of Arunachal Pradesh; Baksa, BARPETA, Bongaigaon, Cachar, Dhemaji, Dhubri, Dibrugarh, Goalpara, Golghat, Hailakandi, Jorhat, Kamrup(Rural), Kamrup(Metro), Karimganj, Kokrajhar, Lakhimpur, Morigaon, N.C.Hills, Nowgaon, Nalbari, Sonitpur, Sibsagar, Tinsukia and Udalgiri districts of Assam; all districts of Meghalaya; Aizwal and Kolasib districts of Mizoram; Bishnupur, and Imphal East districts of Manipur; Dimapur and Kohima districts of Nagaland and Dhalai, West Tripura and North Tripura district of Tripura.

Arunachal Pradesh:

- Undertake transplanting of rice and sowing of summer vegetables.

Assam & Meghalaya:

- In Assam, undertake nursery bed preparation for sowing of Sali rice. Undertake harvesting of green and black gram after spells of rain.
- In Hill Zone of Assam, continue land preparation and sowing of pigeon pea and cotton. Undertake planting of pineapple, banana, papaya etc.
- In Lower Brahmaputra Valley of Assam, in Ahu rice for stem borer, hispa, leaf folder, case worm pest spray Chlorpyrifos 20EC or Quinalphos 25EC @ 1 ml per litre of water after spells of rain.
- In Meghalaya, continue sowing of maize at high and mid altitude region, undertake land preparation for new plantation of pineapple by ploughing or digging followed by leveling.

Manipur, Tripura and Nagaland:

- In Nagaland, undertake transplanting for chilli. Undertake field preparation for TRC/WRC paddy.
- In Manipur, drain out excess water in the nurseryies of *kharif* rice. Continue land preparation for sowing of kharif maize, soybean/ groundnut, black gram. Apply Lambda cythothrin 5% @ 15 ml/ 15 litre of water against the attack of leaf folder and case worm in pre-kharif rice at panicle initiation to flowering stage after spells of rain.
- In Tripura, to protect from strong wind and heavy rain harvest boro rice if 80 to 85 percent grain turned yellow and shift to safer place.
- **Animal Husbandry:**
- In Nagaland and Manipur, pig should be vaccinated against all infectious diseases before the monsoon starts.
- In Mizoram, as heavy rainfall is forecasted during next 2-3 days, avoid water logging of floor of the animal house.

Fishery:

- In Mizoram, as heavy rainfall is forecasted during next 2-3 days, repair damaged dykes of fisheries ponds and take care so that fishes does not escape.

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

Realised Rainfall: Rainfall occurred in all districts of Andaman & Nicobar Islands; in Araria and Kishanganj districts of Bihar; in Gajapati, Jajpur and Koraput districts of Odisha and in Cooch Behar, Darjeeling, East Sikkim, Jalpaiguri, North Sikkim, South Sikkim and West Sikkim districts of Sub-Himalayan West Bengal and Sikkim. Weather remained mainly dry over rest of the region.

Odisha:

- Continue harvesting paddy, summer pulses and onion. Complete the sowing of jute. Undertake sowing of ginger and maize.
- For fruit borer in tomato, spray 80 ml Spinosad 14.5SC in 200 lt water/acre. In case of capsicum and Chilli thrips, go for application of 200 ml Dimethoate 30 EC in 200 ltr water/ acre.

Bihar:

- Continue harvesting of maize, black gram and green gram. Continue planting of ginger and turmeric. Carry out land preparation for paddy nursery. Maintain the proper soil moisture in litchi and mango orchard.
- Dry and hot weather is favorable for outbreak of thrips in onion. Spray Imidacloprid@ 1ml/4 liter of water.

Jharkhand:

- Undertake harvesting of rice. Prepare field for sowing of early vegetables like long gourd, round gourd, bitter guard, sponge gourd, ridge gourd, cucumber and cowpea.

West Bengal:

- In Sub-Himalayan West Bengal, undertake field preparation for sowing of Aman rice. Continue transplanting of ginger and turmeric to main field.
- In Gangetic West Bengal, undertake sowing of green manuring crop like cluster bean, daincha, etc.. Continue sowing of Olitorius jute. Complete the harvesting of groundnut and sesamum. For whitefly and jassid attack in okra, alternate spray with Acetamiprid 20% SP@ 1g and Thiomithoxam 0.3 SG 1g per 3litres of water.

Andaman & Nicobar Islands:

- In Andaman Islands, harvest all the matured vegetable. In Nicobar Islands, provide drainage in vegetables to avoid stagnation of water.
- **Animal Husbandry:**
- In Bihar, in view of increasing temperature, give clean water to the milch animals and keep them in the shaded place during day time. Carry out vaccination of cattle against Anthrax, Black Quarter and H.S. diseases.
- In West Bengal, feed the cattle at morning and evening time. Avoid mung mash and mustard cake in their food and supply arhar or black gram mash and sesame or linseed cake. Provide them more drinking water.

WEST INDIA [GOA, MAHARASHTRA, GUJARAT]

Realised Rainfall: Weather remained dry over the region during the week.

Maharashtra:

- Continue nursery bed preparation for *kharif* rice in Konkan region.
- **In Madhya Maharashtra** As heat wave conditions is likely to prevail during next 4-5 days, apply light and frequent irrigation to orchards and vegetables. Undertake nursery bed preparation for *kharif* rice. For control sap sucking pest in vegetables, spray 4% Neemark or Fipronil @ 25 ml per 10 litres.
- In Maratwada As heat wave conditions is likely to prevail during next 4-5 days, apply light and frequent irrigation to orchards and vegetables. Continue land preparation for *kharif* crops like cotton, pigeon pea, black
- In Vidarbha as heat wave conditions is likely to prevail during next 4-5 days, apply light and frequent irrigation to orchards and vegetables. Continue harvesting of groundnut and rice

Gujarat:

- In Saurashtra & Kutch, apply light irrigation in vegetable crops during morning or evening hours. Undertake land preparation for sowing of irrigated hybrid cotton and B.T. cotton. Undertake land preparation of groundnut. Complete harvesting of green gram, black gram and sesame.
- In North Gujarat, undertake land preparation for sowing of irrigated hybrid cotton and B.T. cotton. Continue harvesting of matured green gram and citrus, papaya, sapota, pomegranate fruits.
- In Middle Gujarat, apply irrigation in vegetable, fruit and green gram crops.
- In South Gujarat, undertake nursery sowing of rice crop. As there is increase in temperature protect banana bunch with plastic sheet.
- **Animal Husbandry**
- In Gujarat, protect animals from direct sunlight and temperature. Provide cool drinking water 4-5 times a day.

CENTRAL INDIA [M.P., CHHATTISGARH]

Realised Rainfall: Weather remained mainly dry over the region during the week.

Advisories:**Madhya Pradesh**

- Continue harvesting cucurbitaceous vegetables and fruits in the state. Apply irrigation of green gram and black gram crops at 7-10 days interval.
- In the Vindhya Plateau Zone, harvest moong and urd.
- In the Central Narmada Valley Zone, spray Imidacloprid @ 5-7 ml per 15 litres of water for sucking pest in tomato, brinjal, chilli, and cucurbit crops.

Chhattisgarh:

- In Chhattisgarh Plain Zone, apply irrigation to vegetable and fruits
- In Northern Hill Zone, apply irrigation in rice, summer maize, sugarcane, and summer vegetable crops during night time.
- In Bastar Plateau Zone, for control of powdery mildew diseases in cucurbitaceous family crops like bottle gourd, pumpkin, ridge gourd, and snake gourd, spray Karathan @ 1 gm/liter of water of water.

Animal Husbandry

- In Madhya Pradesh, vaccinate cattle against FMD and goat against PPR. Vaccinate poultry birds against Ranikhet disease.
- In Chhattisgarh, vaccinate animals against Hemorrhagic Septicaemia (H.S.), Black quarter (B.Q.), etc. To avoid dehydration, feed solution of 4-5 teaspoon sugar and one fourth amount of salt every half an hour to dairy animals.

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

Realised Rainfall: Rainfall occurred in Chamba, Kangra and Una districts of Himachal Pradesh and Anantnag, Bandipore, Baramula, Doda, Ganderbal, Kupwara, Ramban, Reasi and Udhampur districts of Jammu & Kashmir, Hisar and Rohtak districts of Haryana, Hoshiarpur and Kapurthala districts of Punjab, GB Nagar of West Uttar Pradesh during the week. Weather remained mainly dry/dry over rest of the region.

Jammu & Kashmir:

- In Valley Temperate Zone, undertake transplanting of rice. Undertake gap filling in maize. For cutworm damage in

maize at two leaf stage, carry out drenching with chlorpyrifos 20EC (0.02%) @2 ml per litre of water. Complete sowing of kharif pulses to minimize cutworm damage.

- In Sub Tropical Zone, undertake land preparation for sowing of rice nursery. Apply irrigation and carry out hoeing and weeding operations in summer pulses.
- In Intermediate Zone, undertake sowing of rice. Carry out hoeing operation in maize and vegetables. Apply light irrigation to vegetable crops.

➤ **Himachal Pradesh:**

- In Mid and High hill regions of Sub Montane Zone, continue harvesting of wheat on clear days. To control downy mildew in garlic, spray Diathane M 45 2.5 g or Bavistin 1 g per litre.
- In High Hill Temperate Dry Zone, carry out weeding in the pea . Undertake sowing of potato and barley.

Punjab, Haryana and New Delhi

- In Punjab,continue sowing of summer moong, summer mash, cowpea and cucurbits. Undertake transplanting of vegetables (tomato, chilli, brinjal). Complete sowing of cotton including Bt cotton or desi Cotton and planting of turmeric. Undertake field preparation for nursery sowing of rice.
- In Haryana, continue sowing of cotton, transplanting of matured seedlings of tomato, cauliflower, cabbage in prepared field and sowing of ladyfinger, bottle gourd, cucumber, ridge gourd and summer radish. Undertake field preparation of nursery sowing of rice.
- In Delhi, continue sowing of vegetables, green gram, pigeon pea and cotton. Maintain optimum moisture level in cucurbitaceous crops by light and frequent irrigation.

➤ **Uttar Pradesh:**

- In East Uttar Pradesh apply irrigation in maize, urad, moong ,vegetable and green manure crops.
- In West Uttar Pradesh,carry out land preparation for sowing of maize crop. To control fruit and shoot borer in vegetable crops, spray neem oil @ 2ml per litre of water at 3-4 times at 8-10 days interval.

Uttarakhand:

- In Hill Zone, complete harvesting of matured wheat. Undertake field preparation for sowing of irrigated rice. Carry out hoeing and weeding operations in red gram after 2-3 weeks of emergence. Undertake sowing of ginger.
- In Bhabar and Tarai Zone, undertake field preparation for sowing of rice. Apply irrigation after weeding and hoeing operations in sugarcane crop. Continue transplanting of capsicum and brinjal in the polyhouse in Mid and High hills
- In Sub-Humid Sub-Tropic Zone, undertake field preparation for rice nursery. Undertake sowing of sugarcane crop.

Rajasthan:

- Undertake land preparation for sowing of groundnut with assure irrigation. Undertake harvesting of rabi onion.
- In Arid Western Plain Zone, undertake sowing of American cotton.
- In Irrigated North Western Plain Zone, undertake preparation of rice nursery.
- In Semi Arid Eastern Plain Zone, field preparation may be started for the sowing of BT cotton.
- In Transitional Plain Zone of Inland Drainage to over come fruit drop in citrus fruits, spray Planofix Harmone@1.0 ml per litre water.

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