



Summary of Agromet Advisory Services for different States of the country

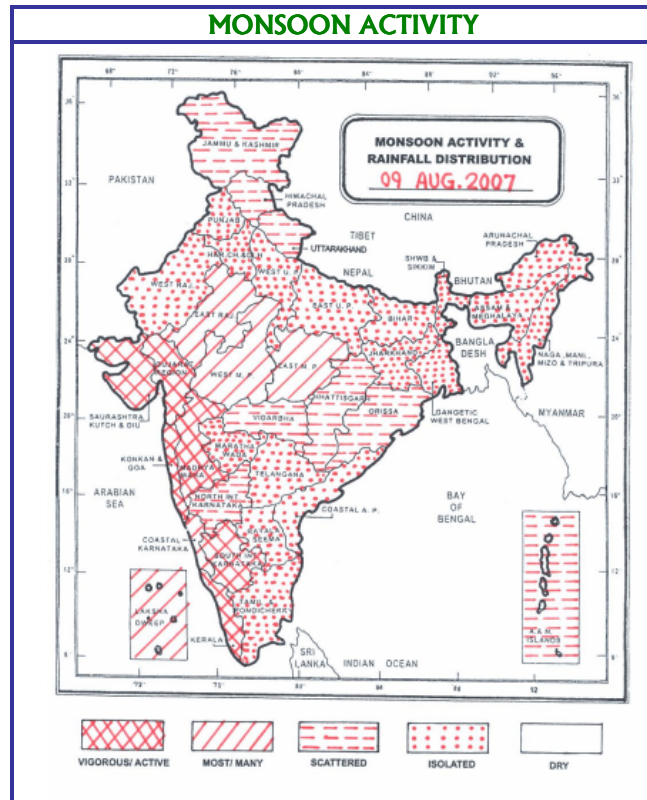
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(For the period 9th to 13th August, 2007)

The extended version of the bulletin is also available at <http://imdagrmet.org>



Agromet Advisory

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

- South west monsoon was active over the State on 6th and 8th August. Rain occurred at most places in the State on 6th, 7th & 8th August.
- Rain/thundershowers are likely at many places in all the districts of the State.

Warning: Isolated heavy to very heavy rainfall is likely to occur over the State.

Advisories

- Rain/thundershower is likely to occur at many places over the State for the next three days. Under the circumstance, postpone irrigation to plantation crops viz., coconut, arecanut, rubber and banana.
- Arrange for drainage facilities to prevent water logging as isolated heavy rainfall is likely during next 24 hours.
- Postpone intercultural operations, application of fertilizers and pesticides in plantation crops.
- Monitor *virippu* rice for rice bug and for blast & bacterial blight diseases. Spray Malathion 50 EC @ 2 ml/litre of water to control the pest and apply Pseudomonas @ 2.5 kg along with 50 kg cow dung to control the diseases. Spraying of chemicals may be undertaken after current spells of rain.

- Attack of bunchy top is reported in banana. Apply Phorate 10G @ 25 g or Cabofuran 3G @ 20 g per pit around the rhizome. Application of chemicals may be undertaken after spells of rain.
- Attack of Phytophthora foot rot, quick wilt and pollu beetle is reported in pepper. Drench the vines over a radius of 45-50 cm with 0.2% copper oxy chloride. A foliar spray with 1% Bordeaux mixture also may be given after current spells of rain to control the diseases. Spray Quinalphos @ 0.05% to control pollu beetle. Spraying of chemicals may be undertaken after spells of rain.

Tamilnadu

- Rainfall occurred at one or two places over the State on 6th, 7th and 8th August.
- Rain/thundershowers are likely at isolated places over the State.

Advisories

- Undertake transplanting of *samba* rice in the main field. Apply pre-emergence herbicide Butachlor @ 1 litre / ha on 3rd day after transplanting.
- As there was no significant rainfall in the state and rain/ thunder showers are likely only at isolated places over the State for the next three days, apply irrigation to sugarcane and cotton.
- Undertake sowing of maize (*Adippattam* – July-Aug crop). Use 6 kg of seeds/acre. Treat the seeds with *Azospirillum* and Phosphobacteria one packet each for one acre seeds.
- Monitor sugarcane for stem borer and if the pest population crosses ETL, release *Trichogramma* egg parasite @ 5cc / acre to control the pest.
- Continue picking of matured cotton bolls on bright sunny days. Picking may be done at early morning hours to maintain quality of kapas.
- Continue sowing of rainfed groundnut, black gram, green gram and red gram. Use 112 kg pods/ha for groundnut and 20 kg/ha for pulse crops.
- Continue planting of special season sugarcane. Undertake sett treatment with *Azatobacter* before planting. Start harvesting late sugarcane.
- Continue sowing rainfed millet crops like jowar, bajra and samai. Undertake seed treatment with *Azospirillum* before sowing.

Karnataka

- On 6th August, monsoon was vigorous over South Interior Karnataka and active over Coastal Karnataka and North Interior Karnataka. On 7th August, monsoon was vigorous over Interior Karnataka and active over Coastal Karnataka. On 8th August rainfall occurred at most places over Coastal Karnataka and at many places over North Interior Karnataka.
- Rain / thundershowers are likely at many places over Coastal Karnataka and at a few places over South Interior Karnataka and isolated over the North Interior Karnataka.

Warning: Isolated heavy to very heavy rainfall is also likely over Coastal Karnataka.

Advisories

- Postpone irrigation to summer sugarcane, *Kharif* jowar, maize, cotton, groundnut and sunflower as rain/thunder showers is likely to occur at many places over Coastal Karnataka for the next three days Also postpone irrigation in Belgaum, Dharwad and Haveri districts in North Interior Karnataka and in Chickmagalur, Davangere, Hassan, Kodagu and Shimoga districts in South Interior Karnataka as there was excess rainfall during last week. Apply irrigation in the remaining districts as there was no significant rainfall during last week.
- Provide drainage facilities in Coastal Karnataka to avoid water logging as isolated heavy to very heavy rainfall likely during next 24 hours.
- Continue intercultural operations, application of fertilizers and pesticides to *kharif* jowar, maize, cotton, groundnut and sunflower after spells of rain in Coastal Karnataka and on a non rainy day in South Interior Karnataka.

- Monitor sugarcane for white woolly aphids in Mysore, Mandya and Hassan districts and release predators viz., *Dipha* sp after spells of rain in Coastal Karnataka and on a non rainy day in South Interior Karnataka to control the pest.

Andhra Pradesh

- Southwest monsoon was vigorous over Rayalaseema on 2nd August and active over Telangana from 4th to 7th August and over Coastal Andhra Pradesh on 6th August. Rain occurred at many places over Coastal Andhra Pradesh on 2nd & 7th August, over Telangana on 2nd & 3rd August and over Rayalaseema on 3rd August. Isolated rain occurred elsewhere over the State during the period.
- Rain/thundershowers are likely at a few places over north Coastal Andhra Pradesh and isolated over rest region of the State.

Advisories

- Continue main field preparation and transplanting of *kharif* rice by utilizing the monsoon rainfall. Transplant rice seedlings at proper age. Apply pre-emergence herbicide Butachlor @ 1 litre/ha on 3rd day after transplanting. Herbicide may be applied on a non rainy day in north Coastal Andhra Pradesh.
- There was no significant rainfall in the state during last week except in East Godavari and Srikakulam districts in Coastal Andhra Pradesh, Adilabad, Hyderabad, Khammam, Karimnagar and Warangal districts in Telangana and in Anantapur district in Rayalaseema and rain/thundershower is likely to occur only at a few/ isolated places for the next three days. Under the circumstances, apply irrigation to *kharif* crops viz., groundnut, cotton, maize, green gram and black gram to bring the soil moisture to field capacity. Postpone irrigation in the above mentioned districts as there was excess rainfall during last week.
- Incidences of stem borer have been reported in maize. Spray Endosulphan @ 2 ml/litre of water to control the pest if the damage crosses ETL. Spraying may be continued on a non rainy day to control the pest in north Coastal Andhra Pradesh.
- Monitor cotton for sucking pests and if the damage crosses ETL spray Imidachlopid @ 0.5 ml/litre of water to control the pest. Spraying may be continued on a non rainy day to control the pest in north Coastal Andhra Pradesh.
- Undertake earthing up in early sown *kharif* crops to keep the field weed free. Intercultural operations may be continued on a non rainy day in north Coastal Andhra Pradesh.

Eastern Region (Assam, Arunachal Pradesh, Bihar, Jharkhand, Sikkim, West Bengal)

Assam

- Light to moderate rain occurred at a few places on 7th & 8th August and light rain occurred at isolated places on 6th with isolated rather heavy to heavy falls on 8th and isolated rather heavy falls on 7th August over the State.
- Rain/ thundershowers are likely at a few places over the State.

Advisories

- **Sali rice is damaged in few localities due to flood.**
- Prepare land for transplanting of Sali rice in main field. Apply urea @ 6 kg, SSP @ 17 kg, Mop @ 4 kg per bigha. The uprooted seedlings are to be washed and then the root portion is dipped in 0.2% solution of Chloropyriphos (1 ml per litre of water) along with 1% of urea for three hrs as protective measure against stem borer, gall midge and hopper.
- As there was no significant rain in most of the districts of the State during last week and rain is likely to occur only at a few places for next three days, apply irrigation to vegetables, sugarcane and arhar.
- Harvest already matured crop of jute and maize.
- Jute crop is to be harvested at small pod stage to get optimum yield and good quality fibre.

- Harvesting of maize should be done on bright sunny days as soon as husk cover turns brown in colour and the silks are completely dry. Birds may damage maize crop at maturity stage. The matured cobs can be protected from attack of birds by tying the cobs with leaves of same plant. Shining coloured strips may also be used to scare the birds.
- Old and dry leaves should be removed and sugarcane should be provided with mechanical support to prevent lodging.
- Incidence of hispa and stem borer was noticed in Sali rice in few localities. Monitor the infestation of hispa and stem borer. If one adult is noticed per hill, insecticides like Chloropyrifos 20 E.C. @ 2 ml per litre of water or Monocrotophos 40 EC @ 1.5 ml per litre of water is to be applied. Apply chemicals on a non-rainy day. For management of yellow stem borer *Trichogramma Japonicum* @ 50,000 per hectare in six releases are to be used.
- Seeds of black gram varieties T-9, Pantu-19, Saonimah SB-12 and green gram varieties T-44, Pratap and AAU-39 should be sown in the field where Sali rice could not be cultivated due to shortage of seedling damaged by flood water. Seeds should be inoculated with 150 gm of Rhizobium culture for 3 kg of seeds. Fertilizer @ 3 kg Urea, 30 kg SSP per bigha should be applied for more yields.

Arunachal Pradesh

- Sky remained mainly cloudy over the State during the period. Light to moderate rain/thundershowers occurred at a few places on 8th August and at one or two places on 6th & 7th August.
- Rain/thundershowers are likely at a few places over the State.

Advisories

- As there was no significant rainfall in the State during last week and rain/thundershowers are likely at a few places over the State for next three days, apply irrigation to millet, *jhum* rice and ginger crops. Postpone irrigation in East Siang, Tawang, Tirap and West Kameng districts as there was sufficient rainfall during last week.
- Continue weeding, spraying and intercultural operations on a non rainy day.
- Harvest the maize crop as and when the crops matured.

Bihar

- Light to moderate rain occurred at most places on 2nd, 3rd & 4th August. On rest days light rain occurred at an isolated places.
- Isolated rain/thundershowers are likely over the State during next 48 hours and increase thereafter.

Advisories

- Direct seeded short duration rice (less than 115 days) can be sown in flood water receding areas.
- Monitor the mango for mealy bug or hopper & if exceeds economic threshold level, then spray with Carbaryl @ 2g/litre of water in a non rainy day.

Jharkhand

- Rain or thundershowers occurred at many places.
- Isolated rain/thundershowers are likely over the State during next 48 hours and increase thereafter.

Advisories

- Complete transplanting of *Kharif* rice and continue sowing of upland crops viz. maize, arhar, groundnut, soybean, urad and rice.
- As there was sufficient rain in most of the districts in the State, postpone irrigation to vegetables, maize, arhar, groundnut, soybean and urad.

- To prevent from powdery mildew of small fruits in Mango and Litchi, spray sulfex @ 2g/litre of water on a non rainy day.
- Monitor the crop for stem borer infestation and if exceeds economic threshold level, about 10 granules of carbofuran should be applied in earhead. After weeding, top dressing of 75 kg urea per hectare may be applied on a non rainy day and do earthing up.
- Topdressing of urea @ 30 kg per hectare for early sown rice and @ 75 kg/ha for maize may be done on a non rainy day.

Sikkim

- Sky remained overcast during the period. Nearly heavy rain occurred on 7th August, light rain on 5th and 6th August and moderate rain on rest of days during the period. The rainfall was deficient during the period over Eastern Sikkim.
- Isolated rain/thundershowers are likely over the State during next 48 hours and increase thereafter.

Advisories

- As there was no significant rainfall during last week and rain / thundershowers are likely at isolated places only over the State, apply irrigation to large cardamom, orange, vegetables, maize and ginger.
- Maintain 4-5 cm water level in the rice field.
- Continue harvesting matured vegetable crops as per market demand.
- Start harvesting maize and large cardamom on bright sunny days.
- Monitor ginger for rhizome rot and bacterial wilt and rouge out the affected plants and destroy completely to prevent further damage.
- Monitor orange for leaf miner and trunk borer. Spray neem based pesticides to control leaf miner. Plug trunk borer holes with cotton soaked with kerosene and later with mud to prevent trunk borer.

West Bengal

- During the said period rainfall occurred at isolated places on 6th August, at most places with heavy rain at isolated places on 7th August and at a few places on 8th August over Sub Himalayan West Bengal. During the said period rainfall occurred at a few places on 6th August, at most places on 7th and at many places on 8th August over Gangetic West Bengal.
- Rain / thundershowers are likely at a few places over coastal West Bengal till tomorrow and increase thereafter. Isolated rain / thundershower are likely over rest of the State during next 48 hours and increase thereafter.

Advisories

- As rain is expected to occur during next 4 – 5 days over the State, postpone irrigation to sugarcane, jute, groundnut and arhar.
- Maintain 3 – 5 cm water in the field of *aus* rice.
- Transplant 25 – 30 days old seedlings of *aman* rice in the main field. Apply 15 kg N, 30 kg P₂O₅ and 30 kg K₂O / ha to short duration varieties and 20 kg N, 40 kg P₂O₅ and 40 kg K₂O / ha to medium and long duration varieties. Select varieties from Hira, Aditya, Prasanya etc. for broadcasting and Rassi, Tulsi, Annada, Biraj, IR – 64, IR – 36, Ratna, Swarna, Nalini, Amulya etc. for transplanting.
- Maintain 2 – 3 cm of water in *aman* rice field 2 – 3 days after transplanting. Maintain 3 – 5 cm water in the field wherever crops are at tillering stage.
- Undertake intercultural operation on a non-rainy day to keep the field weed free

Central Region (Gujarat, Chhattisgarh, Maharashtra, MP & Orissa)

Gujarat

- Monsoon was active over Gujarat region, Daman, Dadra Nagar Haveli and vigorous over Saurashtra, Kutch on 6th August. Monsoon was vigorous over Gujarat state, Daman, Dadra Nagar Haveli on 7th & 8th August.
- Rain/thundershowers are likely at most places over Saurashtra & Kutch & at many places over Gujarat region till tomorrow and decrease thereafter.

Warning: Scattered heavy to very heavy rainfall is likely over Saurashtra & Kutch.

Advisories

- Prepare the main field by puddling method and transplant 25 – 30 days old rice seedlings in the field after current spells of rain.
- Prepare land by two ploughing after current spells of rain for sowing of castor. Apply 10 mt. FYM or 1 Mt. castor cake. Apply 40 kg N and 25 kg phosphorus / ha in furrows as basal dose. Select varieties from hybrid castor GAUCH-1, GCH-2, 4, 5, 6 for sowing.
- As most of the districts of the State received excess rain during last week and rain / thundershowers are likely at most places over Saurashtra & Kutch & at many places over Gujarat region till tomorrow, postpone irrigation and intercultural operation to sugarcane, *kharif* groundnut, *kharif* cotton, *kharif* bajra and *kharif* maize.
- Maintain 2 – 3 cm water after 3 – 4 days after transplanting of *kharif* rice. Maintain 3 – 5 cm water at tillering stage.
- Arrange for draining out of excess water from the field in Saurashtra & Kutch as scattered heavy to very heavy rainfall is likely over the region.
- If *kharif* groundnut appears yellowish, spray 100 grams hirakasi (Ferolus sulphate) + 10 grms lemon aeck desolved in 10 liter of water / ha by making a solution in 500 liters of water to the crop after current spells of rain.
- For monitoring and management of boll worm in *kharif* cotton, hang 5 pheromone traps in one ha of land. Change the lures at an interval of 15 days. Destroy trapped moths every day.

Chhattisgarh

- Monsoon was vigorous on 6th and 7th August. Rainfall occurred at most places on 8th August in all divisions of the State.
- Isolated rain/thundershowers are likely over the State.

Advisories

- Prepare land and transplant 25 – 30 days old seedlings of *kharif* rice in the main field. Transplant 2 – 3 seedlings per hill. Half part of Nitrogen and full dose of Phosphorus and Potash may be applied at the time of land preparation. Germinated sowing may be done in the field with excess water. The suitable varieties are Mahamaya, MTUS – 1010, IR-64, Bamleshwari, Chandrahasani etc.
- Maintain 2 – 3 cm water after 3 – 4 days after transplanting of *kharif* rice. Maintain 3 – 5 cm water at tillering stage.
- As there was sufficient rainfall during last week in all the districts of the State, postpone irrigation to sugarcane and maize and also to black gram, green gram, groundnut and soybean.
- When the sugarcane crop attains a height of 5 – 6 feet, 4 – 5 plants may be tied together to prevent lodging from gusty wind.

Maharashtra

- Monsoon was vigorous in Vidarbha and active in Konkan. Monsoon was also vigorous in South Madhya Maharashtra on 7th August & in North Madhya Maharashtra on 8th August. Rain occurred at most places in Konkan, North Madhya Maharashtra & Vidarbha, at many places in South Madhya Maharashtra and at a few places in Marathwada.

- Rain/thundershowers are likely at many places over north Konkan till tomorrow and decrease thereafter. Rain / thundershowers are likely at a few places over north Madhya Maharashtra, south Konkan & Goa and isolated over the rest region.

Warning: Isolated heavy to very heavy rainfall is also likely over Konkan.

Advisories

- As there was no significant rain in Beed, Nanded, Osmanabad, Solapur & Ahmednagar districts of the State during last two weeks and significant rain/thundershowers are also not likely to occur over these regions during next three days, apply irrigation to the standing crops.
- As sufficient rain occurred in rest of the districts of the State during last week, postpone irrigation to the crops in these regions.
- Maintain 3 – 5 cm water in the rice field wherever crops are at tillering stage.
- A dose of 60 kg Nitrogen / ha may be applied after 30 days from sowing to *kharif* jowar.
- Apply 44 kg Urea / ha for non-irrigated *bajra* & 88 kg Urea / ha for irrigated *bajra* after 25 to 30 days from sowing to the crop.
- Apply 125 kg Gypsum per hectare after 25 to 30 days from sowing of *kharif* groundnut.
- A dose of 30 kg Nitrogen / ha may be applied after 30 days from sowing of *kharif* sunflower.
- Mild incidence of white woolly aphids in Kolhapur division of Maharashtra in sugarcane (pre-seasonal), sap sucking insects in Aurangabad and Latur, aphids & jassids in Amravati & Nagpur and aphids, jassids, thrips in Nashik division in irrigated cotton, blast and stem borer in Konkan in *kharif* rice and hairy caterpillar in Aurangabad division in *kharif* sunflower is reported.
- Monitor sugarcane (pre-seasonal) for White Woolly Aphids & if exceeds economic threshold level, for effective control spray 500 ml Endosulphan 35%+ Metasystox 1000 ml & 500 ml Sticker or 500 gm detergent powder / ha in 500 liters of water. For the biological control of White Woolly Aphids, release 25000 larvae of *Chrysoperla carnea* or *Dipha aphidivora* / ha as predator after 15 days from the above dose.
- For the control of Sap sucking insects and aphids, jassids & thrips in irrigated cotton, spray 5 % Neem extract or release 10,000 to 15000 larvae of *Chrysoperla carnea* and if infestation exceeds economic threshold level, spray 30 % WSC Diamethoate 1000 ml or 25 % WSC Methyl dimeton 320 ml / ha in 500 liters water.
- Monitor *kharif* rice for Blast & if exceeds economic threshold level, spray Bavistin 500 gm / ha in 500 liters water.
- Monitor *kharif* rice for Stem borer & if exceeds economic threshold level, apply 10G Foret (Granular) or 5 G Quinolphos powder @ 15 kg / ha or spray 50 % fenitrothion @ 800 ml / ha in 500 liters water.
- Water may be drained out from *kharif* rice field before the application of plant protection measures & may be applied again after 24 hours of application of plant protection measures.
- Monitor *kharif* sunflower for hairy caterpillar & if exceeds economic threshold level, spray 5 % Neem extract or Quinolphos 25 EC @ 1000 ml or Endosulphan 36 EC @ 1000 ml / ha in 500 liters water.
- Undertake intercultural operation and apply fertilizer and plant protection measures on a non rainy day in North Madhya Maharashtra.

Madhya Pradesh

- Monsoon has been vigorous in South West M.P. on 8th August, active in South M.P. on 7th August, East and North West M.P. on 8th August. Rainfall also occurred at many places in South M.P. on 6th August, North M.P. on 7th August and at a few places in North M.P. on 6th August.
- Isolated rain/thundershowers are likely over the State.

Advisories

- There was excess rainfall in most of the districts except in Rewa, Satna and Shahdol in East Madhya Pradesh and in Sheopur Kalan and Shivpuri in West Madhya Pradesh in the State during last week. Under the circumstance, postpone irrigation to sugarcane and other *khari*f crops viz., soybean, maize, urd and jowar. Apply irrigation in the above mentioned districts as there was no significant rainfall during last week.
- Undertake intercultural operation in sugarcane and *khari*f crops to keep the field weed free. Application of fertilizers may be undertaken as there is sufficient moisture in the soil.

Orissa

- South West monsoon was vigorous over the State on 6th & 7th August. Rainfall occurred at most places over the State on 6th & 7th August and at a few places on 8th August.
- Rain / thundershowers are likely at many places over coastal Orissa & at a few places over interior Orissa till tomorrow and increase thereafter.

Warning: isolated heavy to very heavy rainfall is likely over coastal Orissa during next 24 hours.

Advisories

- As rain/thundershowers are likely at many places over coastal Orissa, isolated heavy to very heavy rainfall is likely over coastal Orissa during next 24 hours, postpone irrigation to the crops and also make arrangement to drain out excess water from the field. As there was sufficient rainfall in most of the districts of interior Orissa and rain / thundershowers are likely at a few places over this region till tomorrow and increase thereafter, postpone irrigation to the crops.
- Continue sowing / transplanting of vegetable crops in interior Orissa and after current spells of rain in coastal Orissa.
- Monitor sugarcane for top shoot borer and if the damage exceeds ETL, undertake spraying of Monocrotophos or Triazophos or Prefonophos @ 400 ml / acre on a non rainy day in interior Orissa and after current spells of rain in coastal Orissa.
- Monitor jute for leaf eating caterpillar and spray Endosuphan @ 2.5 ml / liter of water on a non rainy day in interior Orissa and after current spells of rain in coastal Orissa, if the damage crosses ETL.

North West India (Haryana, Punjab, Rajasthan, Uttar Pradesh, Delhi, Himachal Pradesh, Jammu & Kashmir and Uttarakhand)

Punjab

- Rainfall occurred at many places on 6th and 7th August and at isolated places on rest days.
- Isolated rain/thundershowers are likely to occur during next 24 hours and at a few places thereafter over the State.

Advisories

- As there was sufficient rainfall in Amritsar, Faridkot, Ferozpur, Gurdaspur, Jalandhar, Kapurthala, Moga, Muktesar, Patiala and Ropar districts during last week and isolated rain/thundershowers are likely over the State during next 24 hours and only at a few places thereafter, postpone irrigation to sugarcane, cotton, pulses and groundnut (early sown crop). Adequate arrangement should be made to drain out the standing water. Apply irrigation in the remaining districts as there was no significant rainfall during last week.
- Undertake transplanting of basmathi rice.
- Attack of mealy bug in cotton has been observed. Farmers are advised to take adequate plant protection measures, and host plants may be destroyed to control further spread. They are also advised to spray recommended pesticides and to destroy them manually. Adequate arrangement may be made to drain out standing water.

Haryana

- Rainfall occurred at a few places on 6th August and at isolated places during rest of days.

- Isolated rain/thundershowers are likely over the State during next 24 hours and at a few places there after.

Advisories

- As there was sufficient rainfall in most of the districts during last week and isolated rain/thundershowers are likely over the State during next 24 hours and at a few places there after, postpone irrigation to sugarcane, cotton, pulses and groundnut (early sown crop). Arrange to provide drainage facilities in waterlogged areas.
- Undertake transplanting of basmathi rice.
- Incidence of thrips on cotton, white fly on moong, and shoot borer in sugarcane reported below ETL. Monitor the crop & if exceeds economic threshold level, for effective control of cotton thrips, spray 250 ml Rogor 30EC per hectare, Metasystox 25EC 1ml / litre of water to control white fly in moong, and sprinkle Endosulfan 5 percent granules in the leaf whorls and axils for effective control of shoot borer in sugarcane on a non rainy day.

Rajasthan

- Light to moderate rain / thundershower occurred at many places with heavy to very heavy falls at a few places in Ajmer, Kota, Jaipur, Udaipur, Jodhpur divisions and light to moderate rain / thundershower occurred at few places in Bikaner division in the State.
- Rain/thundershowers are likely at a few places over south Rajasthan and at isolated places over the rest region.

Advisories

- Postpone irrigation to early sown *khari* crops viz., bajra, jowar, maize, guar, moong, moth bean and urd in the State as there was excess rainfall in most of the districts except in Ajmer, Baran, Bhilwara, Bundu, Rajasmand, Sirohi and Tonk districts in East Rajasthan and in Bikaner, Jaisalmer, Nagaur and Sri Ganganagr districts in West Rajasthan. Apply irrigation in the above mentioned districts as there was no significant rainfall during last week.
- Undertake intercultural operations in early sown *khari* crops to keep the field weed free. Intercultural operations may be continued on a non rainy day in south Rajasthan.
- Monitor *desi* and *American* cotton for sucking pests. If the pests population crosses ETL, spray Endosulphan @ 1.25 liters/ha to control the pests. Spraying of chemicals may be continued on a non rainy day in south Rajasthan.

Uttar Pradesh

- Rain occurred at isolated places in Varanasi, Lucknow and Faizabad divisions and weather was mainly dry in remaining divisions of U.P. on 6th August. Rain occurred at most places in Allahabad division and at a few places in Varanasi & Lucknow divisions and at isolated places in Kanpur, Bareilly, Jhansi divisions. Weather was mainly dry in Faizabad, Gorakhpur, Mordabad, Agra and Merrut divisions of U.P. on 7th August. Rain occurred at isolated places in Faizabad, Varanasi, Lucknow, Kanpur, Agra divisions and weather was mainly dry in remaining divisions of U.P. on 8th August.
- Isolated rain/thundershowers are likely over West Uttar Pradesh during next 24 hours and at a few places there after. Isolated rain/thundershowers are likely over East Uttar Pradesh during 48 next hours and increase thereafter.

Advisories

- Continue sowing/transplanting of short duration varieties of rice after receding of flood water where the crops are damaged due to flooding. Continue sowing of til and soybean.
- As there was no significant rainfall during last week and isolated rain/thundershowers are likely over East Uttar Pradesh during 48 next hours and increase thereafter, apply irrigation to the standing crops. Postpone irrigation in Allahabad, Banda, Faizabad, Fatehpur, Gazipur, Gorakhpur, Kanpur Dehat, Lucknow, Maharajganj, and RaiBareilly districts as there was sufficient rainfall during last week.

- As there was no significant rainfall during last week and isolated rain/thundershowers are likely over West Uttar Pradesh during next 24 and at few places thereafter, apply irrigation to the standing crops. Postpone irrigation in Agra, Aligarh, Bareilly, Bijnor, Bulandshahar, Etah, Firozabad, Jalaun, Jotirba Phule Nagar, Lalitpur, Moradabad, and Saharanpur districts as there was sufficient rainfall during last week.
- Proper drainage arrangements for avoiding water logging in turmeric may be done.
- Monitor the top borer in sugarcane, if exceeds economic threshold level, dip the small branches of neem and peepal around the field to catch white grub and collect insects and to destroy, spray the solution of 0.5% Monocrotophos.

Himachal Pradesh

- Precipitation occurred at a few places in the State.
- Rain / thundershowers are likely at a few places over the State.

Advisories

- Continue land preparation and transplanting of rice. The seedbed should be irrigated a day before uprooting of the seedlings. The seedlings should be pulled gently so that the roots are not injured. Repair all bunds. Incorporate all the organic matter about two weeks ahead of transplanting by ploughing the field to enable decomposition. Begin puddling about 2-3 days before transplanting. Prepare the field into a soft puddle. This will help minimize losses due to percolation of water. Uniformly level the fields before application of fertilizers.
- Harvest already matured fruits of apple.
- As there was no significant rain during last week in Chamba and Lahaul and Spiti districts of the State, apply irrigation to vegetables, potato and maize. As the remaining districts received sufficient rain during last week and rain / thundershowers are likely at a few places over the State for next three days, postpone irrigation to the standing crops.
- Maintain 3 – 5 cm water in rice field wherever crops are at tillering stage.
- Zinc deficiency symptoms may appear on the 3rd or 4th basal leaf after 3-4 weeks of transplanting of rice. The mid ribs become yellowish particularly at the base of the leaf but the leaf tip remains normal green. If the deficiency symptoms appear in the leaves, 0.5 per cent zinc sulphate solution (5 kg zinc sulphate mixed with 2.5 kg calcium hydroxide per ha) could be sprayed on a non-rainy day.
- There is mild chance of attack of leaf spot disease in cabbage and cauliflower. If attack crosses economic threshold level, spray dithane M - 45 on a non-rainy day to control the disease.
- There is mild chance of attack of late blight disease in potato. If attack crosses economic threshold level, spray blitox – 50 / copper oxychloride @ 300 g in 100 litres of water on a non-rainy day to control the disease.

Uttarakhand

- Moderate to heavy rainfall was recorded at most places on 3rd August., moderate to rather heavy rain at many places on 4th August, and light to moderate rain at many places on 2nd and 5th August, at a few places on 8th August and at isolated places on 6th and 7th August. Sky remained partly cloudy to overcast during the week.
- Rain/thundershowers are likely at a few places over the State.

Advisories

- As there was sufficient rainfall in most of the districts during last week and rain/thundershowers are likely at a few places over the State, postpone irrigation to sugarcane, potato, and ginger. Provide drainage facilities to avoid water logging.
- Complete transplanting of rice. Apply pre-emergence herbicide Butachlor @ 1 litre / ha on 3rd day after planting to control weeds. Apply herbicide on a non rainy day.

- Undertake intercultural operations on a non rainy day to keep the field weed free in potato, sugarcane, rice and in orchards.
- Monitor apple for thrips and mites, if the pest population crosses ETL and undertake plant protection measures in a non rainy day.

Jammu & Kashmir

- Moderate to heavy rain/thundershowers occurred at most places on 7th August. Light to rather heavy rain/thundershowers occurred at many places on 6th August. Light rain occurred at isolated places on 8th & 7th August over J & K divisions.
- Rain/thundershowers are likely to occur at a few places over the State.

Advisories

- There was no significant rainfall in the State during last week and rain/ thundershowers is likely at a few places over the State for the next three days. Under the circumstances, apply irrigation to maize, vegetable and fruit crops in Kashmir division and to maize in Jammu division.
- Maintain 5 cm standing water in rice field in Kashmir division.
- Weather conditions are favourable for the attack of brown plant hopper and *Hispa* in rice in Jammu division. Spray Endosulfan @ 1.5 litre/ha on a non rainy day to prevent the pests.
- Monitor pulse crops for mosaic and rogue out the affected plants to prevent further damage.
- There is mild chance attack of stem borer in maize in Jammu division. Spray Endosulfan @ 1.5 litre/ha on a non rainy day to prevent the pest.
- Continue sowing of cabbage, cauliflower, kale and knoll-khol in nurseries and sowing of carrot for seed purpose in Kashmir division.
- Undertake planting citrus, litchi, loquat, guava and papaya in orchards in Jammu division.

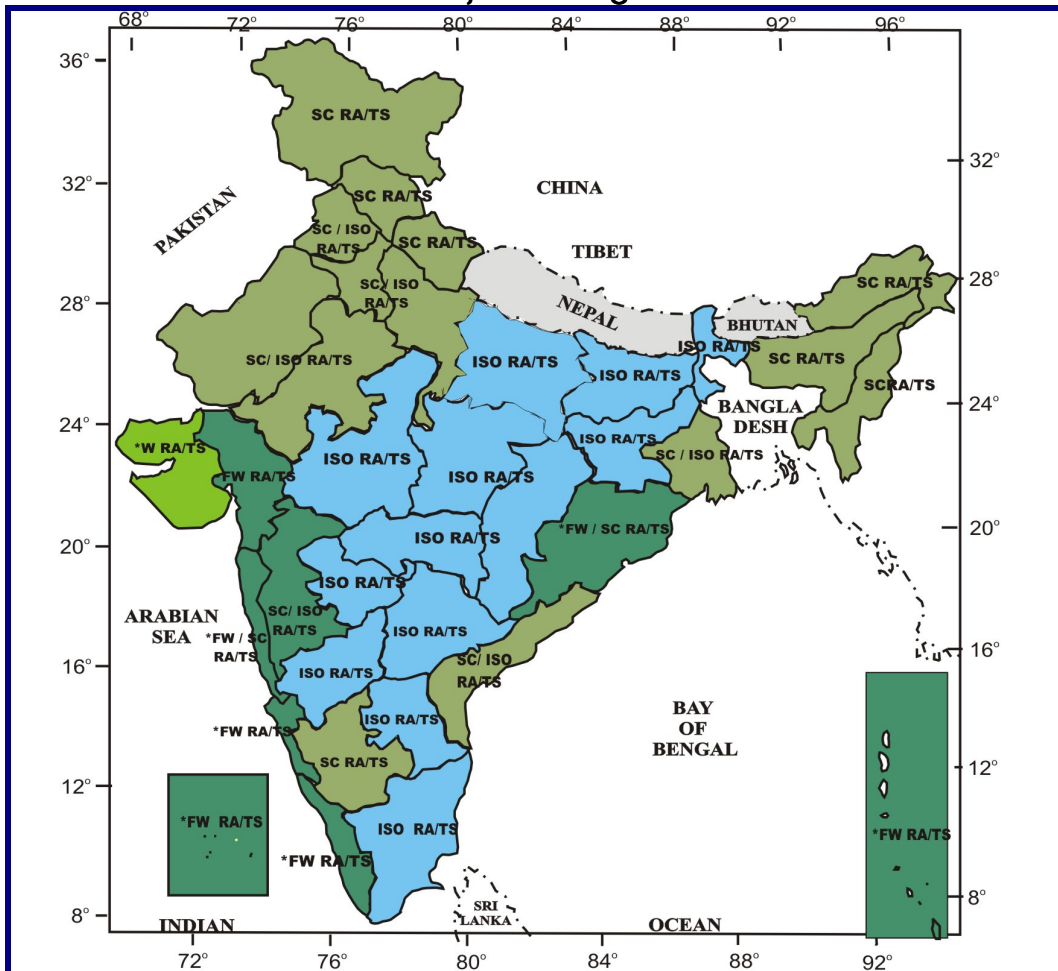
Delhi

- Light to moderate rain occurred at a few places on 6th August. Light rain occurred at isolated places on 7th August. Weather remained mainly dry on rest of the days.
- Isolated rain / thundershowers are likely over the State during next 24 hours and at a few places thereafter.

Advisories

- As sufficient rain occurred during last week over the State, postpone irrigation to vegetables and also to arhar, maize and bajra.
- Maintain 3 – 5 cm water in the rice field at tillering stage. Apply urea @ 100 kg / ha at 3 – 4 weeks after transplanting.
- Prepare land and perform transplanting of 5 – 6 weeks old early cauliflower and cabbage and nursery sowing of mid period cabbage and cauliflower.
- Undertake intercultural operation to keep the field weed free and application of fertilizer and plant protection measures to the crops on a non-rainy day.

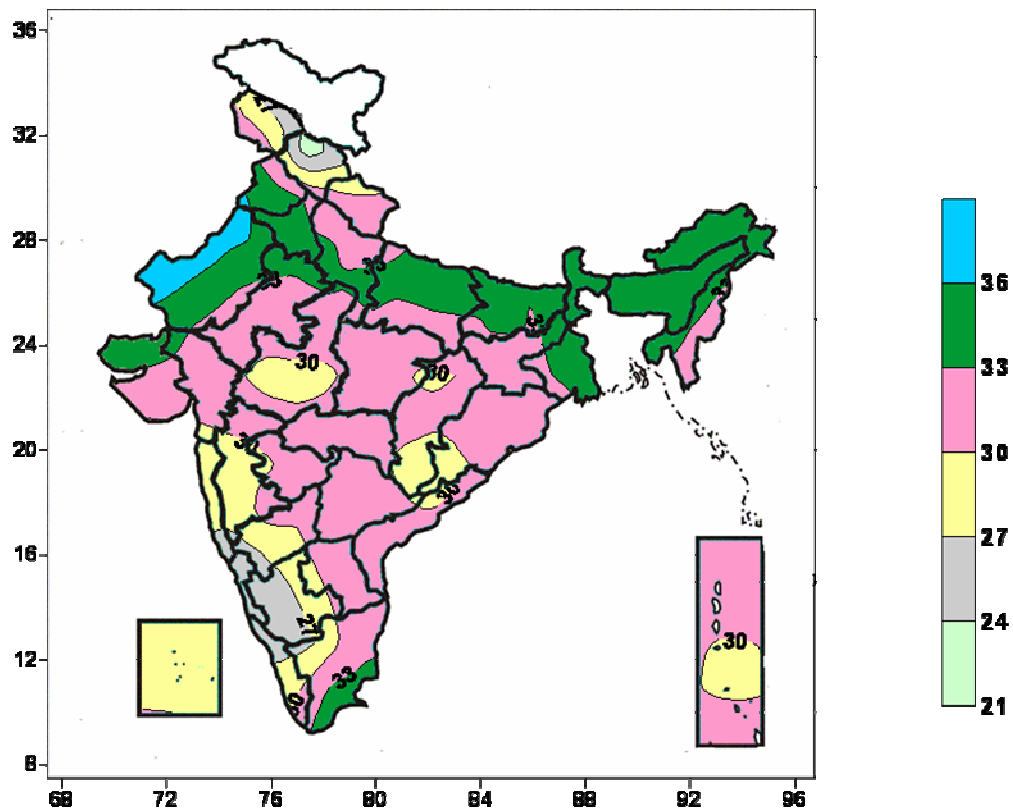
Forecast Map Valid upto 12th August 07



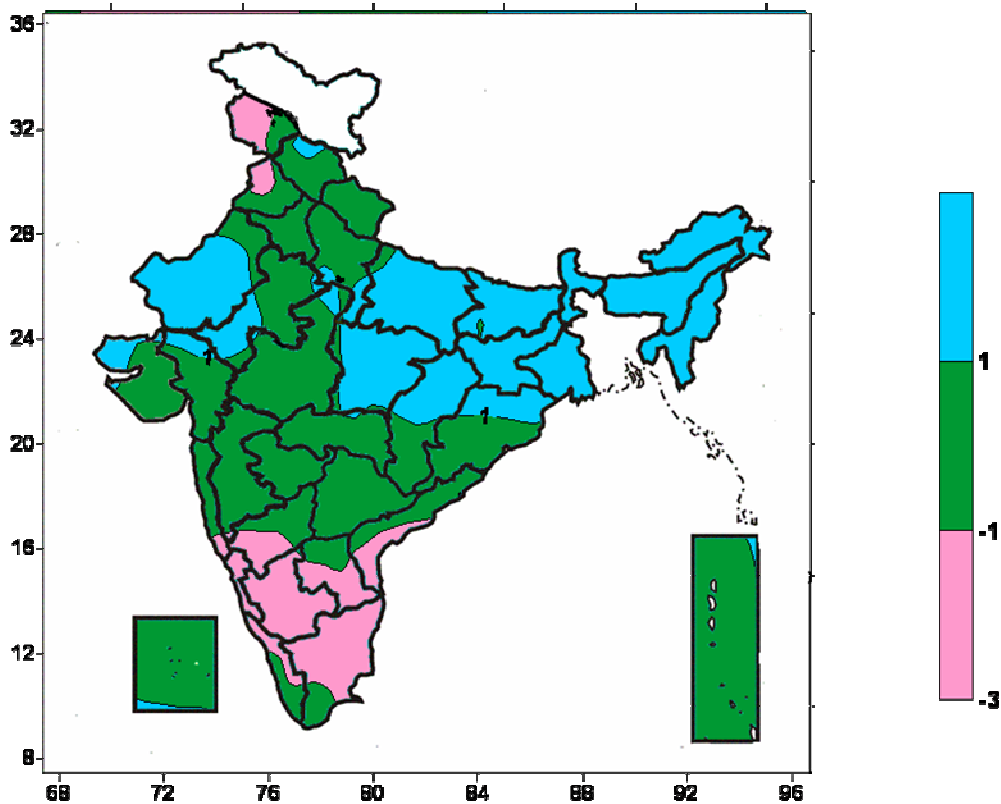
ISO - Isolated, TS - Thunder shower/storm, SN - Snow,
 RA - Rain, DRY - No rain, SC - Scattered, MOD-Moderate,
 T SQ - Thunder Squall, HA- Hail. DS - Dust Storm,
 FW - Fairly Widespread
 * - With heavy Rain warning, # fog condition

Contour maps for the week ending 8th August, 2007

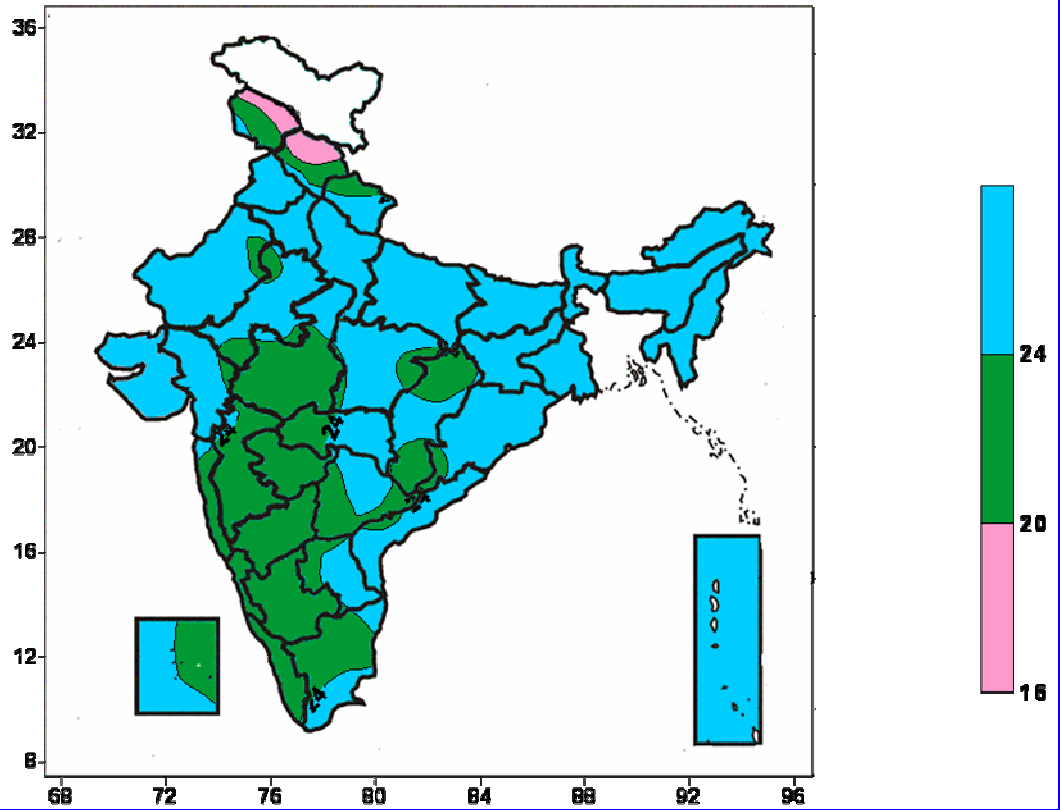
Actual Mean Maximum Temperature ($^{\circ}\text{C}$) In India for the week ending 08.08.07



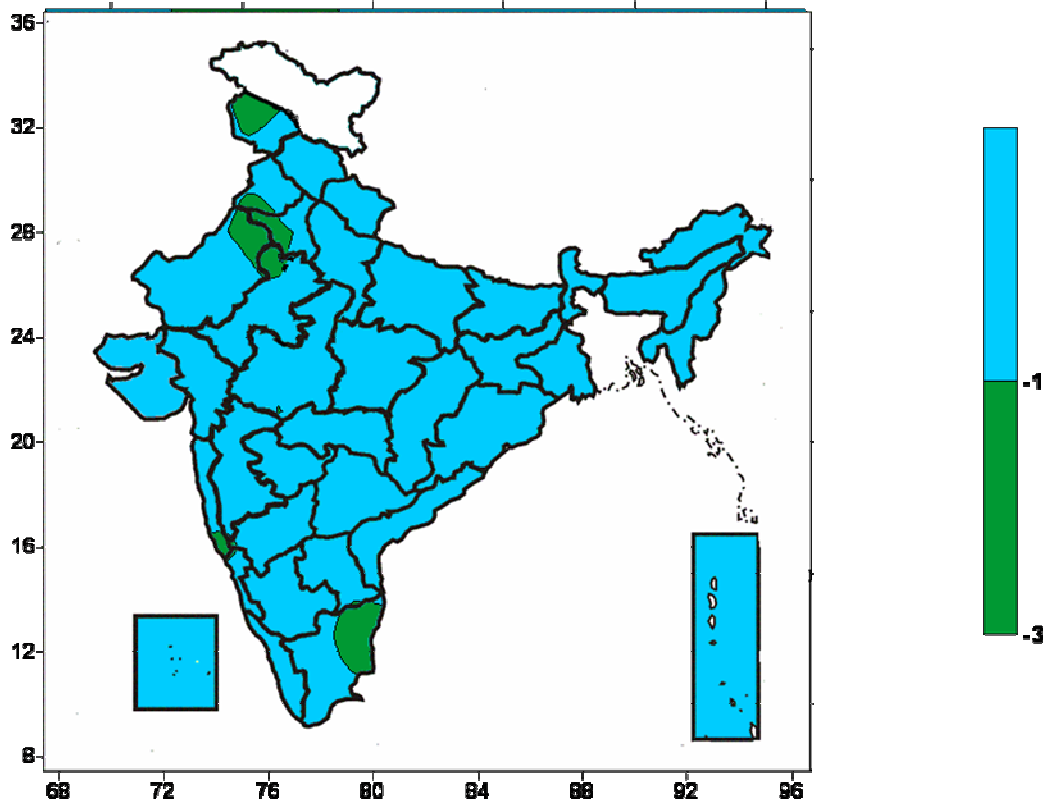
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 08.08.07



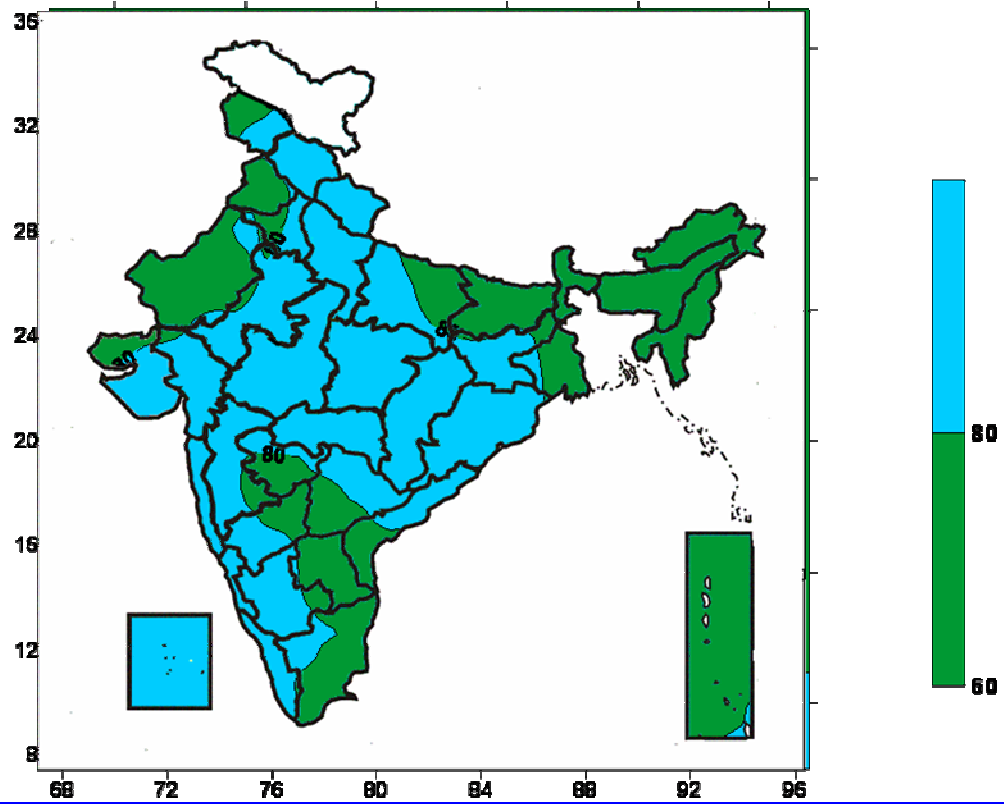
Actual Mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 08.08.07



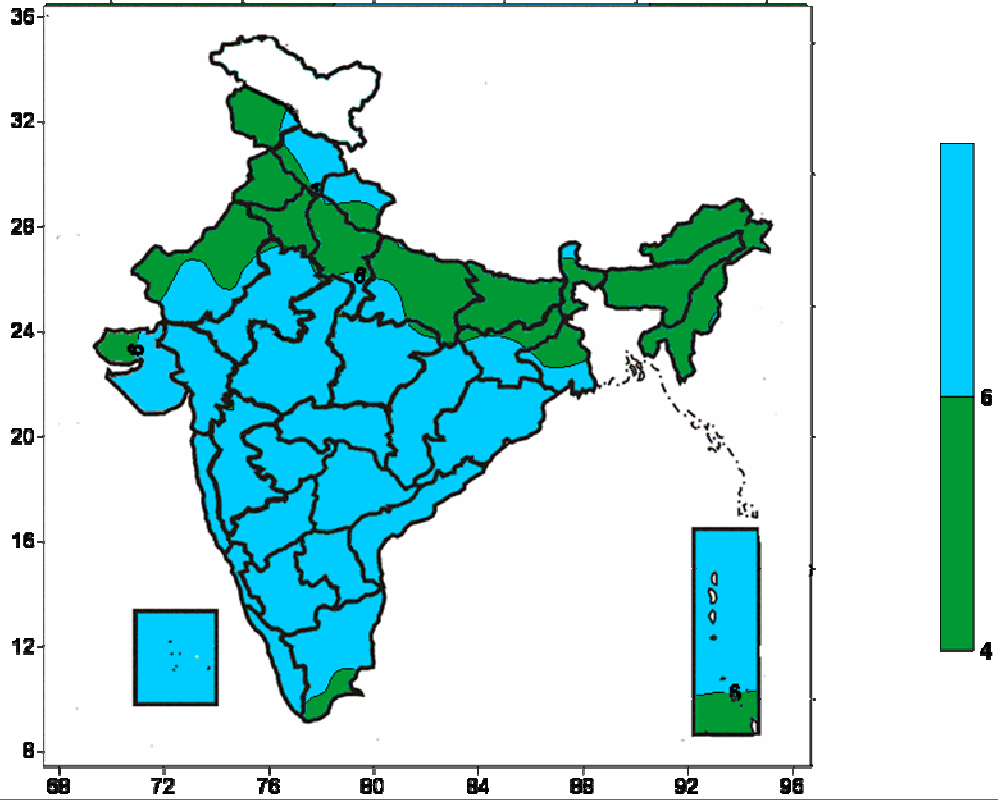
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 08.08.07



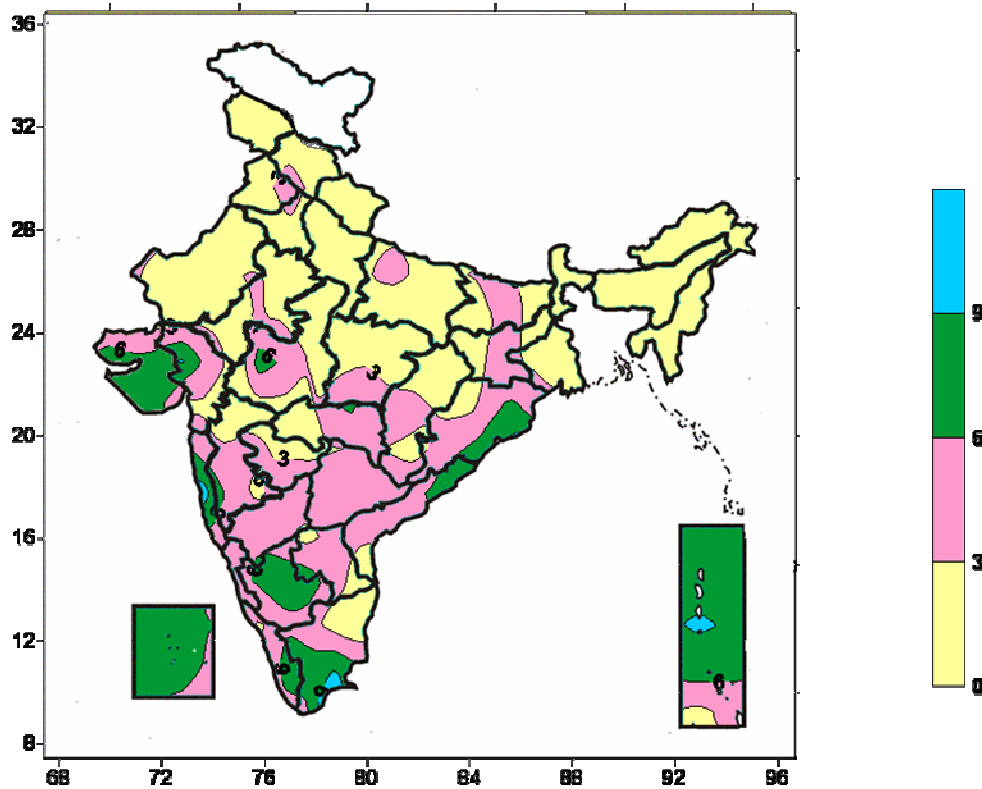
Relative Humidity (%) over India for the week ending 08.08.07



Cloud amount (okta) over India for the week ending 08.08.07



Wind speed (knots) over India for the week ending 08.08.07



Desert Locust Forecasting



Rainfall (mm)							
Station Name	02.08.07	03.08.07	04.08.07	05.08.07	06.08.07	07.08.07	08.08.07
Amritsar	-	11.8	-	-	0.7	-	8.0
Barmer	-	-	-	4.9	14.1	1.6	3.7
Sriganganagar	-	-	-	-	0.2	8.5	6.0
Jaisalmer	-	-	-	4.1	0.5	26.1	0.2
Kota	20.6	3.6	15.0	11.5	-	14.0	1.0
Deesa	-	-	-	32.9	-	97.1	-
Churu	-	97.1	3.4-	-	-	5.6	-

Temperature (degree Celcius)							
Station Name	02.08.07	03.08.07	04.08.07	05.08.07	06.08.07	07.08.07	08.08.07
Amritsar	31.5	28.5	29.5	30.5	29.5	24.5	-
Barmer	33.0	32.0	33.0	31.0	-	32.5	31.0
Sriganganagar	36.0	34.0	-	32.5	-	31.0	31.5
Jaisalmer	33.0	33.5	34.0	-	-	31.5	31.5
Kota	30.0	28.0	29.0	29.5	-	30.5	30.5
Deesa	29.5	30.0	28.5	28.5	29.0	28.5	30.0
Churu	-	-	-	-	-	-	-

Wind														
Station Name	02.08.07		03.08.07		04.08.07		05.08.07		06.08.07		07.08.07		08.08.07	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	05	SE	-	-	-	-	-	-	-	-	-	-	-	-
Barmer	-	-	-	-	-	-	-	-	10	N	-	-	18	NE
Sriganganagar	14	NW	10	WNW	-	-	-	-	-	-	-	-	08	E
Jaisalmer	09	SW	-	-	-	-	-	-	09	NNE	-	-	15	NE
Kota	06	WNW	-	-	-	-	-	-	09	NNE	-	-	-	-
Deesa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Churu	05	W	-	-	-	-	-	-	-	-	-	-	-	-

Small-scale breeding is in progress in desert areas of the **Indo-Pakistan** border. Under the prevailing weather conditions, there is chance of increase in the locust number.
All efforts should be made to monitor the situation closely and carefully and take appropriate plant protection measures.

CROP – STATE – STAGE

Delhi

Vegetables	Early sown summer vegetable crops	Rice	Arhar	Maize
Nursery sowing/Transplanting	Early Vegetative / vegetative	Tillering	Vegetative	Vegetative
Bajra				
Early vegetative / Vegetative				
Haryana				
Sugarcane	Horticultural crops	Cotton	Paddy	
Vegetative	Vegetative	Vegetative	Early vegetative	
Kharif Groundnut	Kharif Pulses			
Vegetative	Flowering			

Himachal Pradesh

Vegetables (Ladies finger/ Cabbage, Cauliflower)	Potato	Apple	Rice	Maize
Vegetative Flowering/Fruiting— Ladies finger Nursery sowing- Cabbage, Cauliflower	Tuber formation	Maturing/Harvesting	Transplanting Early transplanted – Early vegetative/ Early tillering	Knee high / Vegetative

Jammu & Kashmir

Vegetable crops	Rice	Early sown Rice	Maize	Pulses
Fruiting/harvesting—in Kashmir Div.	Vegetative – Jammu Div. Boot leaf - Kashmir Div.	Early vegetative	Vegetative- Jammu Div. Flowering- Kashmir div.	Vegetative

Punjab

Sugarcane	Sunflower	Horticultural crop	Cotton	Paddy
Vegetative	Harvesting	Vegetative	Vegetative	Early vegetative
Kharif Groundnut	Kharif pulses			
Vegetative	Flowering			

Rajasthan

Kharif crops(Bajra, Groundnut, Maize, Guar, Moong, Moth bean, Urd)	Erly sown Kharif crops(Bajra, Groundnut, Maize, Guar, Moong, Moth bean, Urd)	Zaide Fodder	Cotton	
Vegetative	Vegetative	Vegetative	Vegetative	

Uttar Pradesh

Sugarcane	Kharif Vegetables	Mango	Kharif Rice	Kharif oilseeds
Early vegetative	Sowing/Transplanting	Harvesting	Early vegetative	Sowing / Early vegetative

Uttarakhand

Apple Pre-Maturity/maturity	Ginger Rhizome formation	Sugarcane Tiller formation	Potato Tuber growth	Kharif Rice Seedling /vegetative
Finger Millet/ Amranthus Vegetative	Mango/Litchi Seedling			

Assam

Vegetables Flowering / Fruiting / Harvesting	Jute Maturity / Harvesting	Maize Maturity / Harvesting	Sugarcane Vegetative	
Arhar Vegetative	Sali rice Transplanting/Early tillering	Black Gram & Green Gram Land preparation and Sowing		

Arunachal Pradesh

	Ginger Rhizome formation	Millet Flowering	Jhum Paddy Vegetative	Maize Maturity
WRC Rice Vegetative				

Bihar

Summer Vegetables Maturity	Maize Cob formation / Maturity	Arhar Early vegetative	Sugarcane Vegetative	Kharif rice Transplanting
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Jharkhand

Kharif rice Transplanting Early sown – Early vegetative	Ragi Transplanting	Vegetables (Tomato, Brinjal, Bhendi) Sowing Early sown – Early vegetative	Upland crops (Maize, arhar, groundnut, soybean, urad, rice and ragi) Early vegetative
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Sikkim

Maize Harvesting	Orange Fruiting New planting in some places	Vegetables Fruiting/Harvesting	Large Cardamom Capsule maturity/Early harvesting	Ginger Flowering
Rice Tillering				

West Bengal

Sugarcane Vegetative	Jute Vegetative	Aus rice Panicle initiation/flowering/grai n formation	Kharif Groundnut Germination/Early vegetative/vegetative	Arhar Germination/Early vegetative/vegetativ e
Aman rice Land preparation sowing/Transplanting				

Chattisgarh

Sugarcane Vegetative	Black gram, Green Gram & Groundnut Early vegetative/Vegetative	Soybean Early vegetative/Vegetative	Kharif Rice Sowing/ Transplanting Early sown- Early vegetative/Early tillering	Maize Vegetative
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Gujarat

Sugarcane Vegetative	Kharif Rice Transplanting	Early transplanted Rice Early tillering/Tillering	Kharif Groundnut Vegetative	Kharif Cotton Vegetative
Kharif Maize Vegetative	Kharif Bajra Vegetative/Tillering	Castor Land preparation and Sowing		

Maharashtra

Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)	Irrigated cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Rice (Konkan)	Kharif Rice (Madhya Maharashtra, Marathwada & Vidarbha)
Active growth	Early vegetative/active growth	Vegetative growth/Flowering	Early vegetative/Tillering	Seedling /Transplanting Kolhapur – Early tillering
Kharif Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Bajra (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Groundnut (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Green Gram (Madhya Maharashtra, Marathwada & Vidarbha)
Early vegetative	Early vegetative/Vegetative growth	Early vegetative	Early vegetative/Vegetative growth	Early vegetative/Vegetative growth
Kharif Cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Tur (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Soyabean (Madhya Maharashtra, Marathwada & Vidarbha)		
Early vegetative	Germination/Early vegetative	Early vegetative / Vegetative Growth		

Madhya Pradesh

Sugarcane	Kharif crops (Soybean, maize, urd and jowar)	Kharif rice		
Vegetative	Vegetative	Tillering		

Orissa

Summer Vegetables	Kharif vegetables	Kharif rice	Sugarcane	Jute
Fruiting	Raising nursery	Seedling / early vegetative	Vegetative	Vegetative
Arhar				
Seedling / early vegetative				

Andhra Pradesh

Kharif Rice	Kharif Maize	Kharif Cotton	Kharif Groundnut	Kharif Black gram, Green gram
Transplanting	Vegetative	Vegetative	Vegetative	Vegetative

Karnataka

	Sugarcane (Ratoon crop)	Kharif Jowar/Maize/Groundnut/Sunflower		
	Grand growth	Late Vegetative/Flowering		

Kerala

	Rubber	Virippu rice	Early sown Virippu Rice	
	Tapping	Flowering/Boot leaf	Maturity	

Tamil Nadu

Rice (Kuruvai/Samba)	Cotton	Sugarcane (Early, Mid and Late season)	Maize	Groundnut/Black gram/Green gram/Red gram
Samba- Transplanting Kuruvai - Tillering	Picking	Grand growth Late Sugarcane-Harvesting	Sowing	Sowing
Jowar/Bajra/Samai				
Sowing				
