

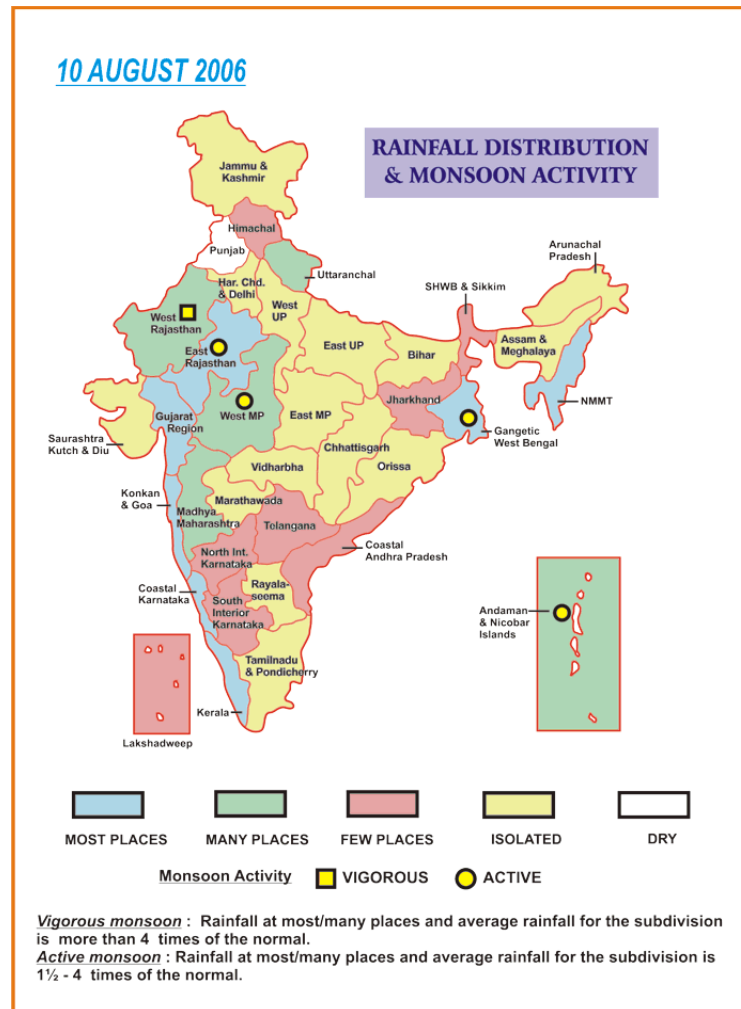


Summary of Agromet Advisory Services for different States of the country
Issued by
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Thursday, 10th August, 2006

(For the period 10th to 14th August, 2006)

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



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

Punjab & Haryana

Rain / thundershowers occurred at many places on 8th August in Punjab and at isolated places on 9th August in Punjab, on 7th, 8th and 9th August in Haryana. Rain also occurred at many places on 7th August in Punjab.

Rain / thundershowers are likely at isolated places over these States.

Advisories

- Avoid irrigation in the standing crops in the districts of **Faridkot & Gurdaspur** in **Punjab** as rainfall was excess during last week. Apply irrigation in the remaining districts of Punjab and all the districts of Haryana as no significant rainfall occurred during last week and rain / thundershowers are likely at isolated places over these States.

- High humid and cloudy conditions prevailed in the States may favour the incidences of sucking type of pests and diseases in standing *kharif* crops. Farmers are advised to take special plant protection measures in cotton, paddy and sugarcane.
- Prevailing conditions may favour further infestation of bollworm in cotton. Hence, a constant watch in the field is must. Present subdued rainfall conditions likely to continue for next 2 days.

Rajasthan

Light to moderate rainfall at many places in Ajmer, Udaipur and Kota divisions, at few places in Jaipur and Jodhpur divisions; at isolated places in Bikaner division.

Rain / thundershowers are likely at many places over East Rajasthan and at a few places in the remaining parts of the State.

Advisories

- As Barmer, Jaisalmer, Jalore, Pali and Sri Ganganagar districts of West Rajasthan received excess rain during last week and rain / thundershowers are likely at a few places over the region, apply light irrigation to **cotton, groundnut, bajra, maize** and **soyabean** if required.
- As rain / thundershowers are likely at many places over East Rajasthan with the possibility of isolated heavy falls, postpone irrigation over this region and make arrangement for draining out excess water from the field.
- Continue sowing of *kharif* pulses (**moong, uradh, arhar** and **moth**) in West Rajasthan.
- Select varieties from MUM-2, K-851, RMG-268 for **Moong** & T-9, Pant-U-19 for **uradh**.
- Postpone sowing of *kharif* pulses (**moong, uradh, arhar** and **moth**) in East Rajasthan and make arrangement for draining out excess water from already sown fields under prevailing weather condition.

Uttar Pradesh

Rain occurred at a few places in Gorakhpur, Jhansi, Agra divisions on 7th August, in Jhansi, Allahabad, Bareilly, Meerut & Gorakhpur divisions on 8th August, Kanpur, Jhansi, Bareilly & Agra divisions on 9th August. It was isolated places in remaining divisions of the State on 7th, 8th & 9th August.

Rain / thundershowers are likely at a few places in East UP and at isolated places in West UP.

Advisories

- There was no significant rainfall in the State and rain or thundershowers are likely at a few places in East UP and at isolated places over West UP for the next three days. Under the circumstances, apply required irrigation to **summer sugarcane, vegetables** and **mango** crops to bring the soil moisture to its field capacity.
- Weeding and hoeing, along with topdressing of nitrogen may be done in **maize, jowar, bajra, kharif pulses** and **oilseeds** in West UP and on a non rainy day in East UP.
- Weather conditions are favourable for the attack of *Pyrrilla* in **sugarcane**. Monitor the crop and collect and destroy egg masses from the lower surface of the leaves. Spray Malathion or Endosulfan @ 1.25 litre / ha in West UP and on a non rainy day in East UP to control the pest.
- Continue transplanting of *kharif* rice.
- To control *khaira* disease in *khair* rice, spray the solution of 5 kg Zinc sulphate and 20 kg urea dissolving in 800-1000 litre water per hectare in West UP and on a non rainy day in East UP.

Himachal Pradesh

Precipitation occurred at a few places during this week in the State.

Rain / thundershowers are likely at a few places in the State.

Advisories

- As Chamba, Kinnaur and Shimla districts of the State received excess rain during last week, postpone irrigation in these districts. As there was no significant rain in remaining districts and rain / thundershowers are likely at a few places over the State for next three days, apply irrigation to **maize, moong, potato and early sown vegetable** crops.
- Maintain 3 – 5 cm water in rice field.
- Red beetle and Fruit fly attack is reported in **curcurbits**. Spray malathion @ 1ml / litre or carbaryl @ 2g / litre of water.
- Fruit and shoot borer attack is seen in **brinjal**. For control spray fenbalerate or cypermethrin @ 0.01%.
- For early transplanted crop, apply first dose of N fertilizer @ 25 – 30 Kg / ha at 25 – 30 days after transplanting and second dose @ 25 – 30 kg / ha at 40 – 45 days after transplanting as top dressing.
- Apply fertilizers and chemicals on a non-rainy day.

Uttaranchal

Light to moderate rain was recorded at many places on 3rd to 8th August except **Dehra Dun**, where it was heavy, while light rain occurred at isolated places on 9th August. Sky remained generally cloudy to overcast.

Rain / thundershowers are likely at a few places.

Advisories

- Rain / thundershowers are likely at a few places over the region for next three days. Under the circumstances, apply irrigation to **mango, apple, sugarcane and vegetable** crops.
- Continue transplanting / sowing of **rice & cauliflower**.

Jammu & Kashmir

Light to moderate to heavy rain with heavy falls at isolated places occurred at most places on 7th August. Moderate to heavy rain / thunder showers again occurred at many places on 8th August. Light rain occurred at isolated places on 9th August in the State.

Rain / thundershowers likely to occur at isolated places in the State.

Advisories

- Light to moderate to heavy rain with heavy falls at isolated places occurred at most places in the State during last week. Under the circumstances, postpone irrigation to **vegetables, pulses, rice and maize**.
- Weather conditions are favourable for the occurrence of yellow vein mosaic in **bhindi** crop. Monitor the crop and rogue out the affected plants to prevent further spread of the disease.
- Planting of horticultural crops like **mango, citrus, litchi, loquat, guava, papaya** etc. may be continued by utilizing the monsoon showers.

Delhi

Light to moderate rain occurred on 8th August at isolated places. Very light to light rain occurred on 9th August at isolated places. Weather remained mainly dry on rest of the days.

Rain / thundershowers are likely at isolated places over the State.

Advisories

- As there was no significant rain during last week and rain / thundershowers are likely at isolated places over the State for next three days, apply irrigation to **early sown kharif vegetable crops, green gram, black gram, fodder crops, arhar, maize and bajra**.

- Drain out water from the field and apply first split dose of N @ 25 – 30 kg / ha after 25 – 30 days of transplanting and second split dose of N @ 25 – 30 kg / ha after 40 - 45 days of transplanting of rice as top dressing. Maintain 3 – 5 cm water level in rice field after 2 – 3 days of fertilizer application.
- Prepare land and continue transplanting of 4 – 6 weeks old early varieties of cauliflower and cabbage plants. Also prepare nursery for medium varieties of cauliflower and cabbage.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Southwest monsoon was weak over the State on 7th & 9th August. Rain occurred at a few places on 9th August and at isolated places on 7th August. Mainly dry weather prevailed on 8th August.

Rain / thundershowers are likely at many places over the State.

Heavy Rain Warning: Isolated heavy falls are likely over Kerala.

Advisories

- Attack of pests and diseases is reported in different crops in Kerala. Spraying of chemicals may be undertaken after current spells of rain to control them.
- Attack of rice bug is reported in rice. Spray Malathion @ 1 l/ha or Methyl parathion @ 500 ml / ha to control rice bug.
- Attack of spindle bug, bud rot and fruit rot (Mahali) diseases is reported in arcanut. Spray the crowns with Carbaryl 50% WP @ 20gm / 100 litres of water to control the bug. Continue spraying Bordeaux mixture 1% to control the diseases.
- Attack of Sigatoka leaf spot, bunchy top and pseudo stem weevil is reported in banana. Spray 1 % Bordeaux mixture to control leaf spot. Eradicate bunchy top affected plants to reduce the spread of the disease. Fill the leaf axils with chlorophyriphos @ 2.5 ml / litre of water to control pseudo stem weevil.
- Attack of Leaf gall and thrips is reported in pepper. Spray Monocrotophos or Dimethoate @ 0.05 % to control the pests.
- Attack of mahali disease, coried bug and red palm weevil is reported in coconut. Spray blitox @ 4 g / litre / palm to control mahali disease. Spray the young bunches with Carbaryl @ 2 gm / litre of water excluding leaves and older bunches. Spraying may be avoided to the receptive phase of the female flowers. Apply neem cake @ 5 kg / palm. Spraying of chemicals may be undertaken after current spells of rain to control coried bug. Use Pheromone trap after current spells of rainfall for controlling red palm weevil.
- Rainfall is likely to occur at many places in the State for the next three days. Under the circumstance, postpone irrigation and application of fertilizers to plantation crops and pepper.
- Continue intercultural operations and fertilizer application in arecanut, pepper, rubber and banana after current spells of rain.

Tamilnadu

Rainfall occurred at isolated places over the State on 7th, 8th and 9th August.

Rain / thundershowers are likely at isolated places over the State.

Advisories

- Rain / thundershowers are likely to occur only at isolated places over the State for the next three days. Under the circumstance, apply irrigation to cotton, early / mid sugarcane and millets to bring the soil moisture to its field capacity.
- Harvesting of late season sugarcane may be continued.
- Attack of internode borer is reported in mid season sugarcane. Release egg parasites viz., *Trichogramma chilonis* @ 5 cc / ha to control the pest.

- Weather conditions are favourable for the attack of **red hairy caterpillar** in **groundnut**. Monitor the crop for the pest and collect and destroy egg masses to prevent further spread of the pest.
- Incidences of **mite** attack are reported in **millets**. Spray wettable sulphur on a non rainy day to control mites.
- **Stem borer egg masses** and **thrips** have been reported in already sown nursery rice (**Kar / Kurruvai**). Collect and destroy egg masses as a preventive measure.

Karnataka

Monsoon was weak over Coastal Karnataka on 7th August and over South Interior Karnataka on 8th & 9th August. Rainfall occurred at most places on 7th & 9th August and at many places on 8th August over Coastal Karnataka. Over North Interior Karnataka, rainfall occurred at a few places on all the days. Over South Interior Karnataka, rainfall occurred at a few places on 7th August and at isolated places on 8th & 9th August.

Rain / thundershowers are likely at many places over Coastal Karnataka, and at a few places over Interior Karnataka.

Warning : Isolated heavy falls are likely over Coastal Karnataka.

Advisories

- Postpone irrigation and top dressing of Nitrogen in **sugarcane, maize, jowar** and **groundnut** in coastal Karnataka as rain / thundershowers are likely to occur at many places.
- Farmers are advised to continue sowing of **khari rice** by utilizing the monsoon showers.
- Arrange for drainage facilities to avoid water stagnation in case of heavy rainfall in coastal Karnataka.
- Prevailing weather conditions are favourable for the incidences of **aphids** on **cotton**. Spray Phosphomidon @ 200 ml/ha or Dimethoate @ 600 ml/ha to control aphids/ sucking pests in cotton. Spraying may be undertaken after spells of rain in coastal Karnataka. Continue the same operation in the Interior Karnataka.

Andhra Pradesh

Southwest Monsoon was vigorous over Coastal Andhra Pradesh on 3rd & 4th August over Telangana from 4th to 6th August and active over Telangana on 3rd August. Rain occurred at a few places over Coastal Andhra Pradesh on 5th & 7th August, and isolated elsewhere over the State during the week.

Rain or thundershowers are likely at many places over north Coastal A.P., at a few places over south Coastal A.P. and Telangana and at isolated places over Rayalaseema

Rainfall activity is likely to increase over Telangana and coastal AP.

Advisories

- As rain / thundershowers likely to occur at many places over north Coastal A.P. postpone irrigation to **maize, groundnut, cotton, chilly** and **tur**. Apply irrigation in **Mehbubnagar** district to bring soil to its field capacity as rainfall was deficient in this district during last week and in other districts of Telangana depending upon soil moisture status. Apply required irrigation in south Coastal A.P and Rayalaseema to bring the soil moisture to its field capacity.
- Postpone intercultural operations, application of fertilizers and pesticides over north Coastal A.P. Continue these operations in Rayalaseema and on a non rainy day in Telangana and south Coastal A.P.
- **Bud and stem necrosis** disease is reported in **groundnut**. Spray Dimethoate @ 400 ml / ha or Methyl Dimeton @ 360 ml / ha after current spells of rain over **north Coastal A.P** to control the vector, thereby reducing the spread of disease. Continue spraying in **Rayalaseema** and on a non rainy day in **Telangana** and **south Coastal A.P.**
- Attack of **sucking pest** is reported in **cotton**. Spray Monocrotophos @ 1.6ml / lit of water after current

spells of rain over north Coastal A.P to control the vector, thereby reducing the spread of the disease. Continue spraying in Rayalaseema and on a non rainy day in Telangana and south Coastal A.P.

Eastern Region (Assam, Bihar, Sikkim, West Bengal)

Assam

Light to moderate rain occurred at a few places on 8th August and at isolated places on 7th & 9th August with isolated heavy falls on 7th August over the State.

Rain / thundershowers are likely at a few places over the State.

Advisories

- As most of the districts received no significant rainfall during last week and rain / thundershowers are likely at a few places over the State for next three days, apply irrigation to sugarcane, vegetables and arhar.
- Maintain 3 – 5 cm water level in *Sali rice* field wherever crops are at tillering stage.
- Infestation of stem borer is reported in sugarcane in a few localities. Apply Phosphomidon @ 1.5 ml per litre of water and 400 – 500 ml per bigha or Endosulfan @ 2 ml per litre of water and 1 – 1.5 litre per bigha on a non-rainy day two-three rounds fortnightly starting from the rush egg lying.
- Continue transplanting of *Sali rice*.
- Due to less rainfall around 30% of *Sali rice* area is yet to be covered. Where *Sali rice* could not be transplanted, in those areas *Luit* and *Kapili* varieties of rice seeds @ 8 kg per bigha can be sown directly upto 1st week of September. **Black Gram** and **Green Gram** may also be sown in those areas.
- Select **Black gram** varieties from T -9, Pant U-19 and Saonimah (SB-121) and **Green gram** varieties from T-44, Pratap and AAU-39.

West Bengal

During the said period South West Monsoon was active over Sub Himalayan West Bengal on 8th August and weak over West Bengal on 9th August.

During this period rain occurred at a few places over the districts of Sub Himalayan West Bengal on 7th and 9th August, rain occurred, at most places over the districts of Sub Himalayan West Bengal on 8th August. Rain occurred at isolated places over the districts of Gangetic West Bengal on 7th, 8th and 9th August.

Rain / thundershowers are likely at many places over the State. The rainfall activity is likely to increase over Gangetic West Bengal.

Heavy to very heavy rainfall likely at a few places over Gangetic West Bengal.

Advisories

- As rain / thundershowers are likely at many places over the State with heavy to very heavy rainfall at a few places over Gangetic West Bengal, postpone intercultural operation, irrigation and application of fertilizer and plant protection measures to sugarcane, green gram, *aus rice*, jute, groundnut and early transplanted *aman rice*.
- Also make arrangement for draining out excess water from the field in Gangetic West Bengal.
- Maintain 5 – 7 cm water in the *aus rice* and early transplanted *aman rice* field.
- Drain out excess water and continue land preparation and transplanting of *aman rice*. Maintain 2 – 3 cm of standing water after 2 -3 days of transplanting.

Bihar

Rain occurred at isolated places over the State.

Rain / thundershowers are likely at many places over the State.

Warning: Isolated heavy falls are likely over the State.

Advisories

- As rain / thundershowers are likely at many places with isolated heavy falls over the State for next three days, postpone irrigation to **vegetables, maize, pulses, and oilseed** crops.
- Undertake drainage of excess water to avoid water logging.
- Also postpone intercultural operation, application of fertilizer and plant protection measures.

Jharkhand

Rain occurred at a few places.

Rain / thundershowers are likely at a few places over the State.

Warning: Isolated heavy falls are likely over the State.

Advisories

- As there was no significant rain in all the districts of the State and rain / thundershowers are likely at a few places over the State for next three days, apply irrigation to **vegetables, maize, and other** crops.
- Continue intercultural operation, application of fertilizer and plant protection measures on a non-rainy day.
- Transplanting of **rice** may be continued. Maintain 3 -5cm of standing water in the field.

Sikkim

Sky remained generally cloudy during the period. Light to moderate rain occurred at many places on 8th & 9th August. Light rain occurred at few places on 7th August over East Sikkim during the period. Rainfall was deficient during the period.

Rain / thundershowers likely to occur at many places over the State.

Advisories

- Rain/thundershowers are likely to occur at many places over the State for the next three days. Under the circumstance, postpone irrigation to **orange, maize and large cardamom** crops.
- Postpone intercultural operations, application of fertilizers and pesticides in **orange, vegetables and ginger**.
- Incidences of **chirkey** and **foorkey** diseases are reported in **large cardamom**. Rouge out the affected crops and destroy the crops by burning. Also monitor the crop for **caterpillar** infestation and collect and destroy manually to prevent further incidences.
- Weather conditions are favourable for the attack of **rhizome rot** in **Ginger**. Monitor the crop for the disease and destroy the affected plants. Also arrange for drainage facilities to prevent spread of disease. Monitor the crop for **bacterial wilt** and rouge out the affected plants and burnt well outside the field to protect the other plants.
- Continue harvesting of **potato** after current spells of rain.

Arunachal Pradesh

Rain / thundershowers are likely at a few places over the State.

Advisories

- As rain / thundershower is likely to occur only at a few places in the State, apply required irrigation to **ginger, jhum rice and wet seeded rice**.
- Maintain 3 – 5 cm of standing water in **wet seeded rice** field.
- Continue sowing of new **ginger** crop in some parts of high altitude, middle area and foothills of Arunachal Pradesh. Apply irrigation in early sown **ginger** crops of sprouting stage.

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

Gujarat

Monsoon was vigorous over Gujarat region, Daman, Dadra Nagar Haveli. Rainfall occurred at a few places over Saurashtra and isolated places over Kutch on 7th and 8th August. Monsoon was active over Gujarat region. Rainfall occurred at many places over Saurashtra on 9th August.

Rain / thundershowers are likely at many places over the State. Rainfall activity also likely to increase over north Gujarat region from 12th afternoon.

Advisories

- Due to heavy rainfall during last week water stagnation and flood occurred in South Gujarat region i.e. **Surat, Navasari, Anand** and **Kheda** districts of the State. Farmers are advised to make arrangement for extensive drainage over these areas as rain / thundershowers are likely at many places over the State.
- As most of the districts of the State received excess rain during last week and rain / thundershowers are likely at many places over the State, postpone irrigation to **sugarcane, Kharif groundnut, Kharif bajra, Kharif maize, pre-monsoon irrigated cotton and Kharif cotton** and make arrangement for draining out excess water from the field.
- Also postpone intercultural operation and application of fertilizer and plant protection measures to the crops.
- Drain out excess water, prepare land and continue transplanting of 3 – 4 weeks old **rice** seedlings in main field.
- Maintain 2 – 3 cm of standing water after 2 – 3 days of transplanting and 3 – 5 cm water in the field where **rice** crops are at tillering stage.
- Postpone sowing of **castor** and make arrangement for draining out excess water from the field where sowing has already been carried out.

Chattisgarh

The state received deficient rainfall during monsoon season and during last week. Bastar, Dantewara, Dhamtari Kanker and Rajnandgaon districts of the State received normal / excess and other districts received scanty / deficient rainfall during last week.

Rain / thundershowers are likely at a few places over Chhattisgarh.

Advisories

- As **Bastar** and **Dantewara** districts received excess rain during last week, postpone irrigation to the crops in these districts.
- As the remaining districts of the State received no significant rain during last week and rain / thundershowers are likely at a few places over the State for next three days, apply irrigation to **Sugarcane** and early sown **vegetables, green gram, black gram, red gram, soybean, groundnut and kharif rice**.
- Undertake intercultural operation for early sown crops on a non-rainy day to keep the field weed free.
- Continue land preparation on a non-rainy day and sowing of **Kharif vegetables, red gram, green gram, black gram, soybean, groundnut** and transplanting of **Kharif rice** with the use of monsoon rain.
- Select varieties like Asha, B.D.N-2, Laxmi -148, C-11 of **red gram**, J- 851, Pusa Vishal, BM-4, Malvia Jyoti 12 of **green gram**, KU – 96-3 TPU -4, TU -94-2, PU -30 of **black gram**, JS – 335, JS – 93-05, JS – 80-21 and Indira Soya – 9 of **soybean** and SB11, AK-24, TAG-26, AK- 159 of **groundnut** for sowing.

Maharashtra

Monsoon was vigorous in Konkan, North Madhya Maharashtra & West Vidarbha, active in South Madhya Maharashtra & East Vidarbha. Rainfall occurred at most places over Konkan, Madhya

Maharashtra, Marathwada & West Vidarbha & at isolated places in east Vidarbha.

Rain / thundershowers are likely at many places over Konkan and Goa & Madhya Maharashtra, at a few places over Vidarbha & Marathwada. Isolated heavy falls are likely over Konkan and Goa (including Mumbai).

Advisories

- Due to heavy rainfall water stagnation and flood occurred in Nashik, Buldana, Satara, Yavatmal, Sangli, Chandrapur, Amaravati, Pune, Jalgoan and Kolhapur districts of the State. 9500 ha in sangli, 8500 ha in Satara and 8000 ha cropped areas in Kolhapur have been affected in Maharashtra. Farmers are advised to make arrangement for extensive drainage over these areas as rain / thundershowers are likely at many places with the possibility of isolated heavy to very heavy rainfall in Konkan and Goa and Madhya Maharashtra.
- As there was no significant rainfall during last week in the Bhandara district of Vidarbha and rain / thundershowers are likely at a few places over this region for next three days, apply irrigation to Sugarcane, Jowar, *Kharif* groundnut, bajra, soybean, sunflower, *kharif* cotton, tur, moong and Cotton (irrigated).
- As remaining districts of Konkan and Goa, Madhya Maharashtra, Marathwada and Vidarbha received excess rain during last week, Postpone irrigation in these areas. As rain / thundershowers are likely at many places over Konkan and Goa and Madhya Maharashtra with possibility of isolated heavy rainfall, also make arrangement for draining out excess water from the field.
- Maintain 3 – 5 cm water in the rice field.
- Undertake intercultural operation on a non-rainy day in Marathwada and vidarbha to keep the field weed free.
- Postpone intercultural operation, application of fertilizer and plant protection measures in Konkan and Goa and Madhya Maharashtra under prevailing weather condition.

Madhya Pradesh

Monsoon has been vigorous in South West M.P. on 7th August, active in West M.P. on 8th and 9th August. Rainfall occurred at most places in South East M.P. on 7th and 8th August, at many places in North West M.P. on 7th August and South East M.P. on 9th August and at a few places in North East M.P. from 7th to 9th August.

Rain / thundershowers are likely at many places over West Madhya Pradesh, at a few places over East Madhya Pradesh.

Warning: Isolated heavy falls are likely over West Madhya Pradesh.

Advisories

- Thinning, weeding and hoeing of cotton, maize, soyabean, urad, jowar may be done on a non rainy day in East Madhya Pradesh and after current spells of rain in West Madhya Pradesh.
- As rain / thundershowers are likely at many places over West Madhya Pradesh, for next three days, postpone irrigation to sugarcane, soybean and moong.
- Also postpone inter-cultural operations in West Madhya Pradesh under prevailing weather condition.
- Make arrangements to drain out excess water in standing crops in West Madhya Pradesh.
- To protect sugarcane crop against chaipa, pyrilla or scale insects, spray oxydematon methyl or dimethoate @ 1 lit / ha after current spells of rain in West Madhya Pradesh and on a non rainy days in East Madhya Pradesh.
- If Semi looper is in initial stage in soyabean, spray 5% solution of Nimboli powder or spray 30 to 40 days old Butter milk every 10 days on a non rainy day in East Madhya Pradesh and after current spells of rain in West Madhya Pradesh.

Orissa

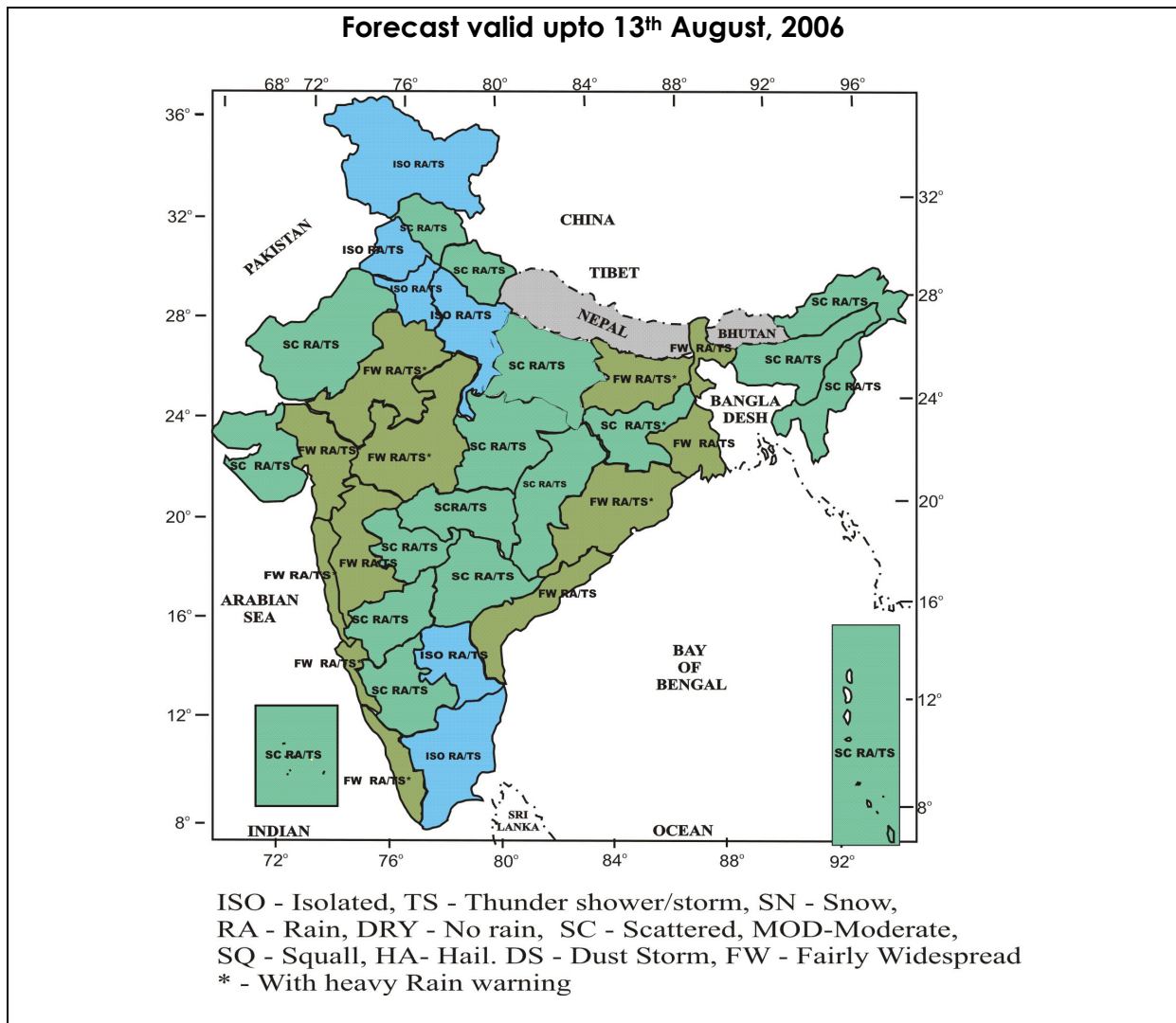
Rain fall occurred at isolated places over the State during the above period.

Rain or thunder showers are likely at many places over the State. The rainfall activity is likely to increase over the State during next 2-3 days.

Heavy Rainfall Warning: Heavy to very heavy rainfall likely at a few places over the State.

Advisories

- Rain or thunder showers are likely at many places over the State with heavy to very heavy rainfall at a few places. The rainfall activity is likely to increase over the State during next 2-3 days. Under the circumstances, postpone irrigation to **vegetables**, **sugarcane** and **jute** crops.
- Farmers are advised to continue land preparation and sowing of *kharif* crops like **rice**, **groundnut** and **pulses** after current spells of rain.
- At five months stage of sugarcane crop perform propping by combining plants of two rows so that the crops do not lodge by wind.
- Undertake drainage of excess water to avoid water logging.
- Also postpone intercultural operation, application of fertilizer and plant protection measures under prevailing weather condition.



Salient weather features for the week ending 09/08/06

METEOROLOGICAL ANALYSIS

- Last week's deep depression over northwest Bay of Bengal crossed Orissa coast between Gopalpur and Puri around 0830 hours IST of 3rd August and lay centred over land about 50 Km north-northeast of Gopalpur. Moving in a west northwesterly direction, it weakened into a depression and lay centred at 0830 IST of 4th over Chhattisgarh near lat. 20.0° N and long. 82.5° E about 100 km northeast of Jagdalpur. It lay over Vidarbha near lat. 21.0°N and long. 80.0°E about 100 Km east southeast of Nagpur at 0830 IST of 5th. Further moving west northwestwards, it weakened into a well marked low pressure area over Vidarbha and adjoining southwest Madhya Pradesh in the evening of 5th. It lay over southwest Madhya Pradesh and neighbourhood on 6th and over West Madhya Pradesh and neighbourhood on 7th. It lay as low pressure area over West Madhya Pradesh and adjoining east Rajasthan on 8th and over northwest Madhya Pradesh and neighbourhood on 9th.
- The axis of the monsoon trough at sea level lay either in its normal position or to the south of the normal position throughout the week.
- The off-shore trough at sea level ran from south Gujarat coast to Karnataka coast on 7th, from south Konkan coast to south Karnataka coast on 8th and from north Konkan coast to south Karnataka coast on 9th.
- An upper air cyclonic circulation extending upto 2.1 km a.s.l. lay over north Pakistan and adjoining Jammu & Kashmir during 3rd to 5th August. It lay over Jammu & Kashmir and neighbourhood extending between 3.6 & 5.8 km a.s.l. from 6th till end of the week.

RAINFALL

Under the influence of the above systems:

- Widespread/fairly widespread rainfall with scattered heavy to very heavy falls occurred over Orissa and Chhattisgarh under vigorous/active monsoon conditions during first two days of the week. Fairly widespread rainfall also occurred over other sub-divisions of central India and Gangetic West Bengal during this period.
- Widespread/fairly widespread rainfall with scattered heavy to very heavy falls occurred over Coastal Andhra Pradesh and Telangana during first half of the week and over Coastal & North Interior Karnataka during middle of the week. The monsoon was vigorous/active over these sub-divisions on most of these days.
- Widespread/fairly widespread rainfall with scattered heavy to very heavy falls occurred over Madhya Maharashtra, Konkan & Goa, Gujarat Region and Rajasthan during many days and over remaining sub-divisions of western India during some days of the week. The monsoon was vigorous/active on many days over Madhya Maharashtra, Konkan & Goa, Gujarat Region and Rajasthan during the week.
- Widespread/fairly widespread rainfall with isolated heavy to very heavy falls occurred over Western Himalayan region on many days of the week. The monsoon was vigorous/active over Jammu & Kashmir on many days and over Himachal Pradesh and Uttaranchal on some days of the week.
- The rainfall was subdued over northeastern States and southeastern peninsular region of the country where scattered/isolated rainfall occurred during many days of the week.

RAINFALL DURING THE WEEK ENDING ON 9TH AUGUST, 2006

Rainfall was excess/normal in 17 and deficient/scanty in 19 out of 36 meteorological sub-divisions (Actual: 82.3 mm, Normal: 64.2mm and Departure: 28%).

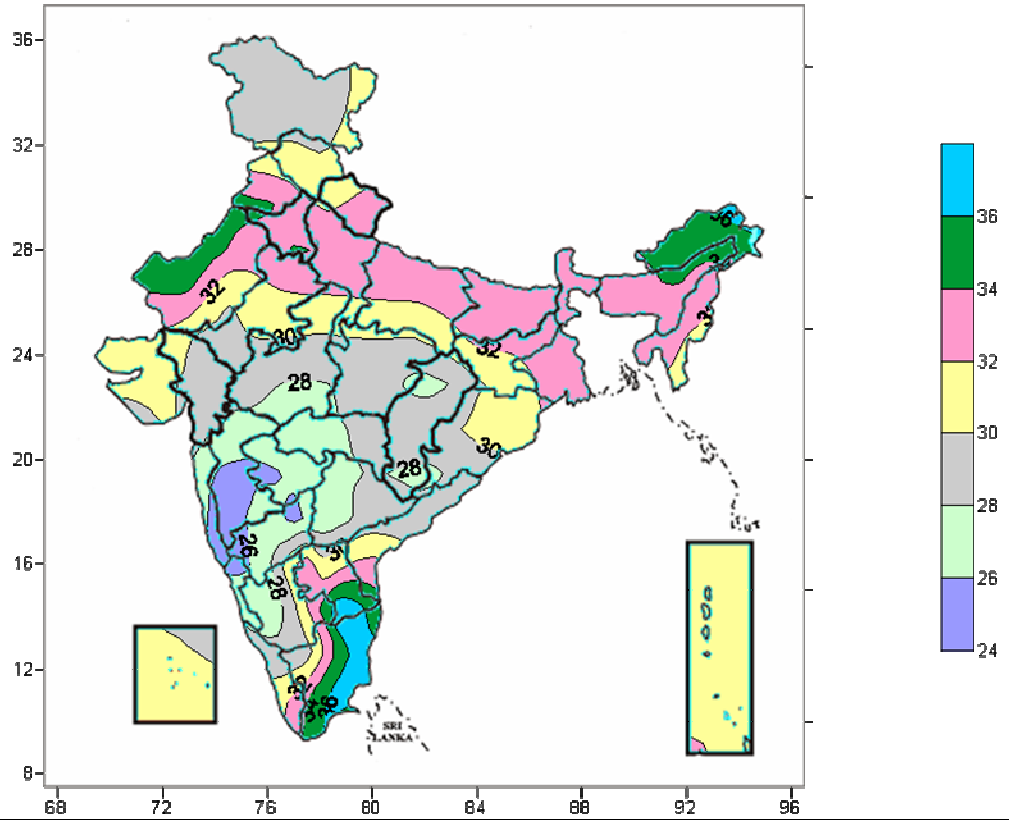
CUMULATIVE SEASONAL RAINFALL (1ST JUNE TO 9TH AUGUST, 2006)

Rainfall was excess/normal in 26 and deficient/scanty in 10 out of 36 meteorological sub-divisions. (Actual: 525.9 mm, Normal: 535.3 mm and Departure: -2%).

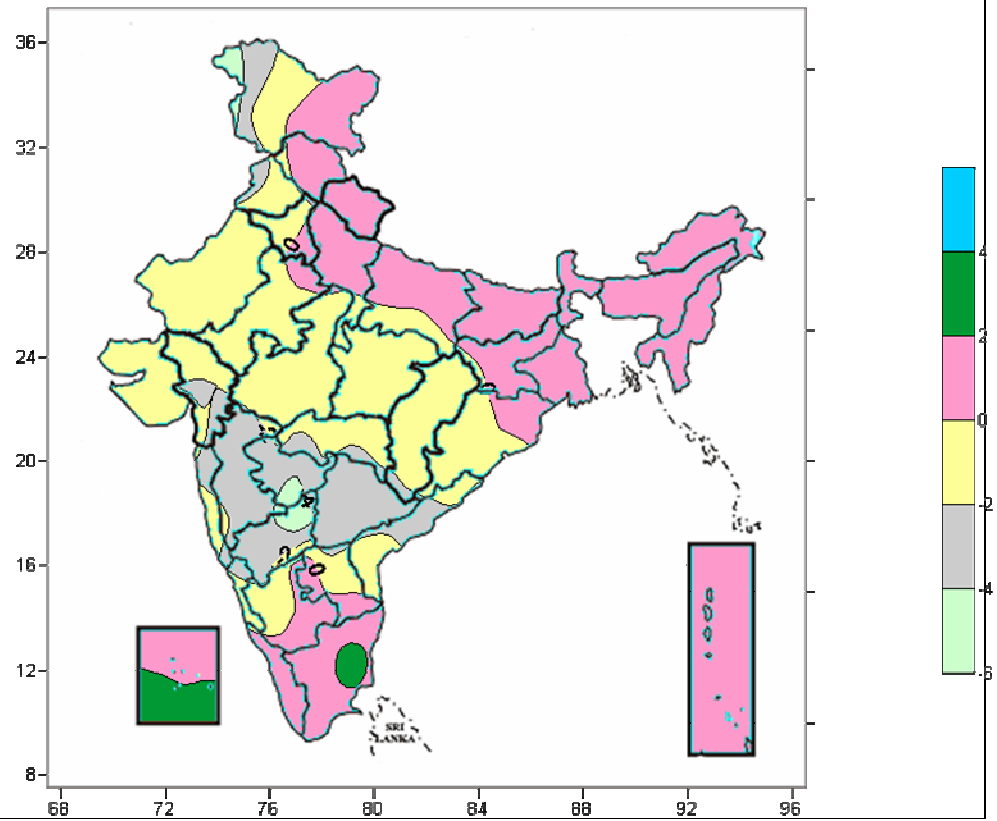
OUTLOOK FOR THE WEEK ENDING ON 16TH AUGUST, 2006.

- Due to the formation of a low pressure area over north Bay of Bengal off north Orissa-West Bengal coast on 10th morning which is likely to be more marked and move in a west-northwesterly direction, enhanced rainfall activity is likely over eastern, central & western India and adjoining areas
- Subdued rainfall activity over northeastern States and southeast Peninsula.

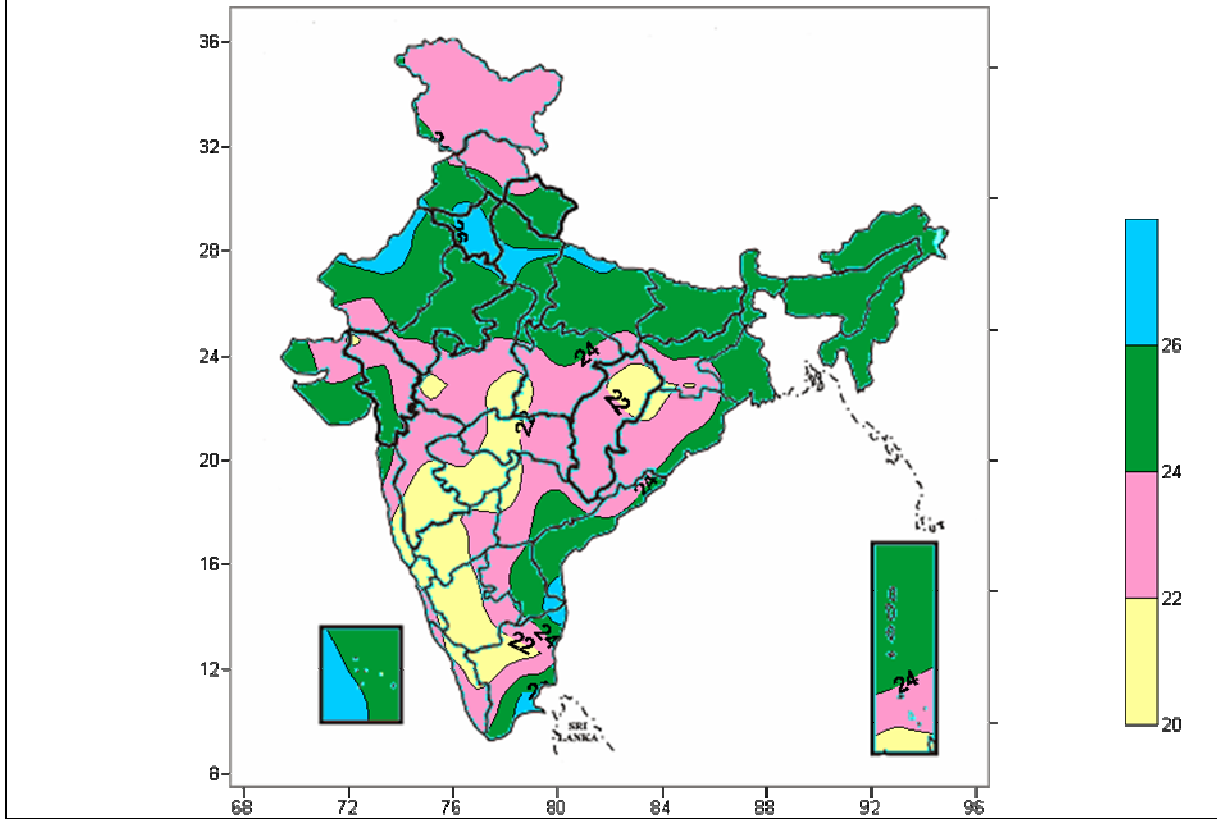
Actual mean maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 09.08.06



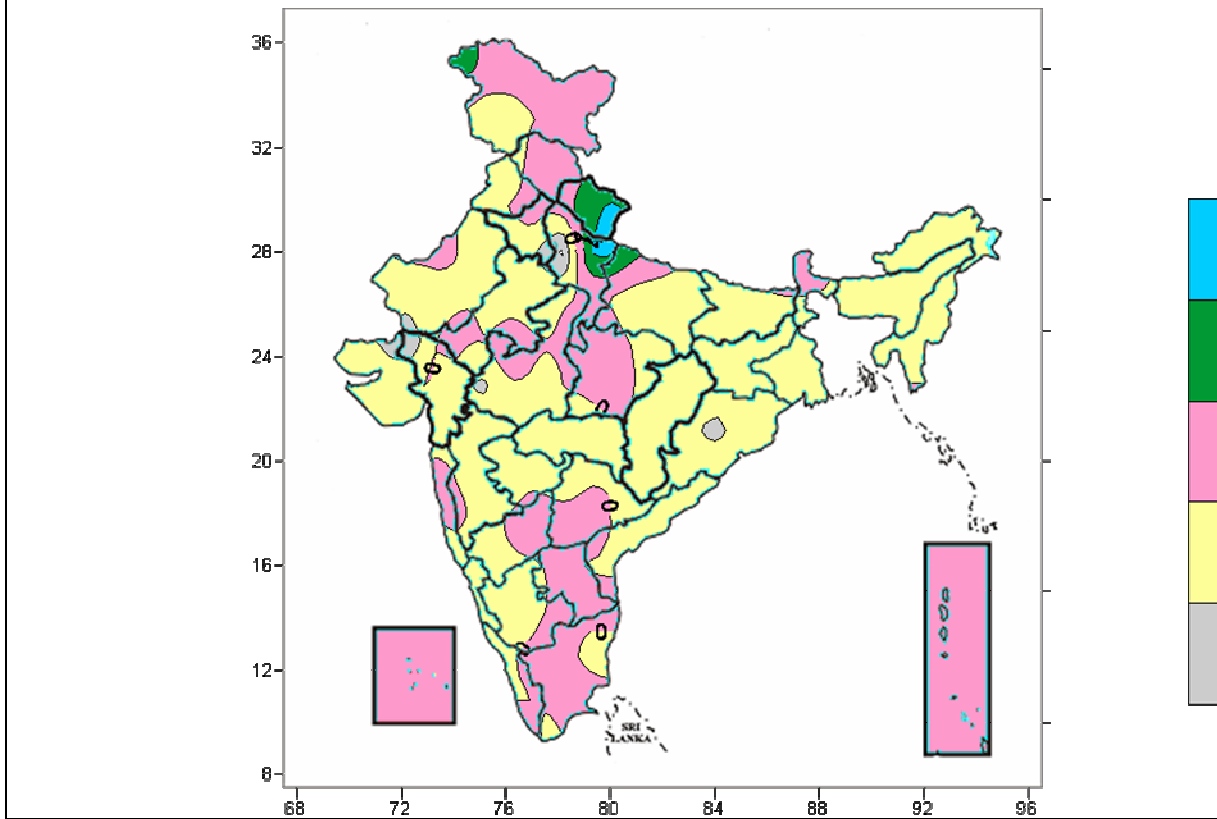
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 09.08.06



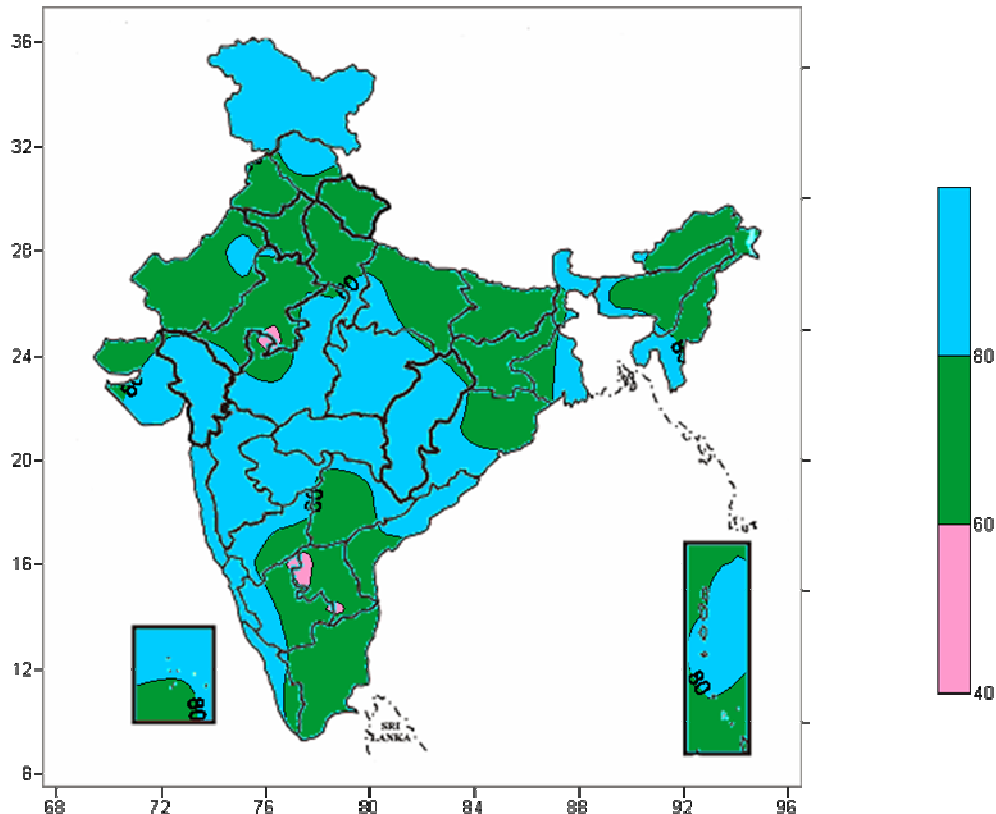
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 09.08.06



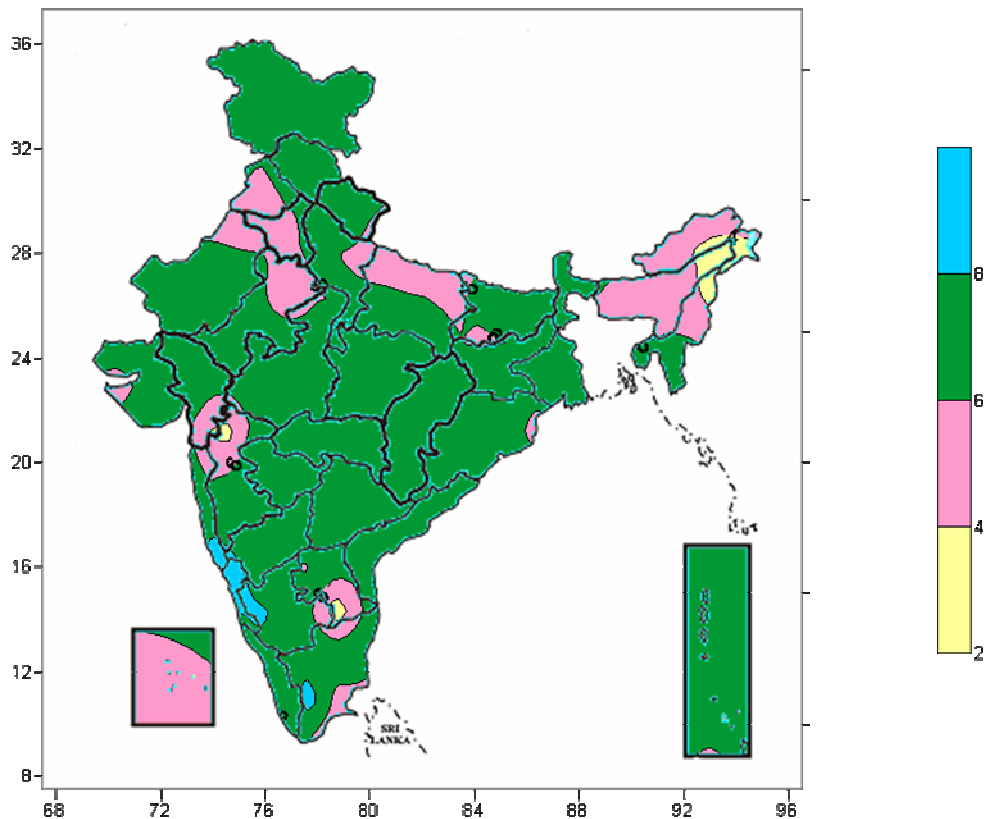
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 09.08.06



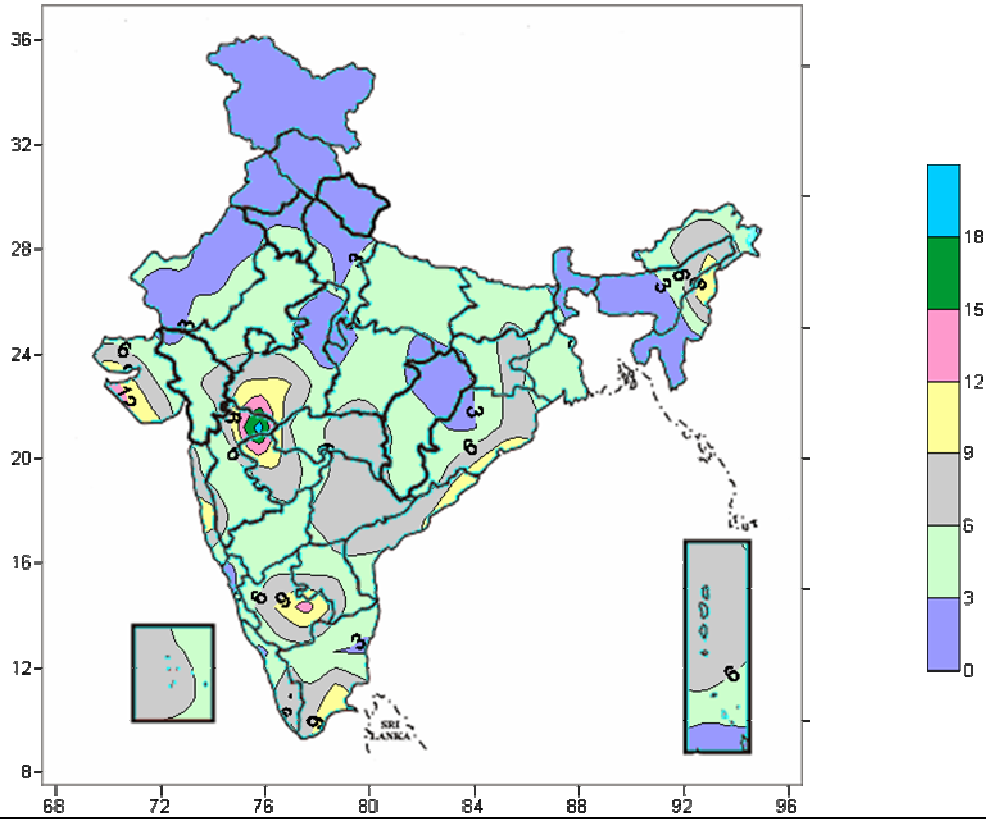
Relative humidity (%) over India for the week ending 09.08.06



Cloud amount (okta) over India for the week ending 09.08.06



Wind speed (knots) over India for the week ending 09.08.06



Desert Locust Forecasting



Rainfall (mm)							
Station Name	3.8.06	4.8.06	5.8.06	6.8.06	7.8.06	8.8.06	9.8.06
Amritsar	-	-	7.4	7.0	-	6.6	-
Barmer	0.6	-	-	7.6	5.2	-	4.9
Sriganganagar	-	-	-	-	-	0.5	-
Jaisalmer	2.2	-	-	130.9	36.8	16.4	8.0
Kota	-	5.1	27.9	1.4	0.4	15.0	19.1
Deesa	2.4	2.4	-	1.8	49.7	68.1	13.4
Churu	-	-	51.9	-	-	-	-

Temperature (degree celcius)							
Station Name	3.8.06	4.8.06	5.8.06	6.8.06	7.8.06	8.8.06	9.8.06
Amritsar	30.5	30.0	27.0	25.5	27.0	26.5	29.5
Barmer	25.5	27.0	29.0	30.0	28.0	29.5	30.0
Sriganganagar	36.0	33.0	32.5	32.0	31.5	27.5	31.5
Jaisalmer	29.0	29.5	32.0	30.5	29.0	30.0	29.0
Kota	28.0	29.5	28.5	28.5	27.5	27.5	27.5
Deesa	27.0	25.5	26.5	27.0	26.5	26.0	25.0
Churu	-	-	-	-	-	-	-

Wind

Station Name	3.8.06		4.8.06		5.8.06		6.8.06		7.8.06		8.8.06		9.8.06	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	15	E	-	-					08	E	15	ENE	-	-
Barmer	-	-	07	SE					-	-	-	-	07	NW
Sriganga nagar	07	SE	05	E					09	ENE	15	E	13	E
Jaisalmer	-	-	08	ESE					06	NNE	-	-	10	N
Kota	12	NNE	-	-					-	-	-	-	-	-
Deesa	-	-	-	-					-	-	-	-	-	-
Churu	03	ESE	04	NE					16	E	19	E	15	ENE

Adults are present along the **Indo-Pakistan** border. As there is good amount of rainfall in the North Western parts of the country, particularly in Rajasthan, there is a chance of migration of locust from the Indo-Pakistan border as well as there is a chance of in situ formation of desert locust in Rajasthan & neighbourhood area. It is advised to carry out suitable anti locust operations.

CROP – STATE – STAGE

Delhi

Vegetable crops	Kharif vegetables	Arhar	Rice	Green gram, black gram
Vegetative/Flowering / fruiting / harvesting	Transplanting	Vegetative	Tillering	Pod formation
Bajra	Fodder (Mixed maize , Lobia)	Maize		
Early vegetative/vegetative	Vegetative	Early vegetative/vegetative		

Haryana

Horticultural crop	Sugarcane	Paddy	Maize	Cotton
Vegetative/fruiting	Vegetative	Transplanting/vegetative	Vegetative/early tasseling	Vegetative to square formation
Bajra	Kharif pulses / groundnut			
Sowing/germination	Seedling/early vegetative			

Himachal Pradesh

Rice	Maize	Apple	Summer vegetables (Tomato, brinjal, ladies finger)	Fodder crops
Tillering	Vegetative/tasseling	Harvesting	Vegetative/flowering/ fruiting / harvesting	Vegetative
Moong / Mash	Fruit plants	Potato		
Pod development	fruiting	Vegetative / tuber development / maturity		

Jammu & Kashmir

Vegetables crops	Rice	Maize	Kharif crops	Horticultural crops
Vegetative	Tillering	Vegetative	Vegetative	Planting

Punjab

Sugarcane	Paddy	Maize	Cotton	Kharif pulses / groundnut
Vegetative	Vegetative	Vegetative/early tasseling	Vegetative	Seedling/early vegetative to square formation

Rajasthan

Cotton	Groundnut	Bajra / Maize / Soyabean	Pulses	
Vegetative/Square formation	Vegetative	Vegetative	Sowing	
Uttar Pradesh				
Ealy sown Pulses	Kharif Pulses (Urad & Moong)	Sugarcane	Kharif Vegetables	Summer vegetables
Early vegetative/vegetative	Early vegetative/vegetative	Vegetative	Early vegetative/vegetative	Harvesting
Mango	New Mango	Kharif rice	Early sown Oilseeds	Kharif Oilseeds (Til, Soybean, Groundnut)
Harvesting	Active growth	Transplanting	Seedling	Sowing
Kharif Maize, Jowar, Bajra				
Early vegetative/vegetative				

Uttaranchal

Rice & cauliflower	Mango	Lady's finger / French Bean	Sugarcane	Chilli & Tomato
Vegetative	Maturity	Fruiting	Tillering	Fruiting / maturity
Apple	Millets			
Maturity	Seedling			

Assam

Maize	Sugarcane	Jute	Summer vegetables	Balck gram and Green gram
Harvesting	Vegetative /cane formation	Harvesting	Fruiting/Maturity / harvesting	Land preparation/sowing
Transplanted rice	Arhar	Sali rice	Regular ahu rice	
Vegetative/tillering	Early vegetative/vegetative	Transplanting	Maturity/harvesting	

Arunachal Pradesh

Wet seeded rice	Ginger	Millet	Summer vegetables	Jhum Paddy
Grain formation stage	Rhizome formation/maturity	Harvesting	Harvesting	Grain formation stage

Bihar

Vegetables	Rice	Maize	Pulses and Oil seeds	
Vegetative	Transplanting/early vegetative	Vegetative	Vegetative	

Jharkhand

Rice	Upland crops (groundnut, arhar, urad)	Finger millet	Maize
Transplanting	Seedling	Transplanting	Seedling
Kharif vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)	Upland crops (Early sown crops)	(Early sown crops) Finger millet	
Sowing/transplanting	Seedling	Seedling	

Sikkim

Orange	Rice	Large Cardamom	Kharif vegetables	Potato
Fruiting	Tillering	Seed development	Vegetative/fruitletting	Tuber harvesting (in low & mid hills)
Maize	Ginger			
Cob maturity	Vegetative			

West Bengal

Aus rice	Sugarcane	Jute	Green Gram	Aman rice
Flowering/grain formation	Vegetative	Vegetative /maturity/harvesting	Vegetative / Flowering/pod formation	Transplanting

Groundnut	Early transplanted rice			
Vegetative/flowering	Early vegetative/tillering			

Chattisgarh

Chilly, Brinjal, Ladies finger, Beans, Bottle gourd	Kharif Vegetables	Sugarcane	Kharif rice	Soybean
(summer veg.- Vegetative / flowering / fruiting / harvesting)	Sowing / transplanting	Vegetative	Transplanting	Sowing
Green gram / Black gram(early sown)	Blackgram / Greengram	Groundnut	Red Gram	Kharif vegetables
Vegetative / flowering / pod formation	Sowing	Sowing	Sowing	sowing / transplanting
Early sown rice	Early sown(Redgram, Groundnut, Soybean)			
Early vegetative/tillering	Germination/seedling/vegetative			

Gujarat

Kharif Maize	Premonsoon irrigated Cotton	Kharif groundnut	Early Sown Rice	Sugarcane
Vegetative	Vegetative/ Square formation	Vegetative	Early tillering/tillering	Vegetative / elongation
Kharif Cotton	Castor	Kharif bajra	Kharif Rice	
Vegetative	Sowing	Vegetative	Transplanting	

Maharashtra

Kharif Groundnut	Tur	Irrigated Cotton	Sugarcane (Seasonal)	Bajra (Madhya Maharashtra, Marthwada and Vidarbha)
Early vegetative/vegetative	Germination/early vegetative	Vegetative	Early vegetative	Germination/early vegetative/vegetative
Jowar	Kharif sunflower	Soyabean	Kharif rice (Konkan)	Kharif rice (Madhya Maharashtra, Marathwada & Vidarbha)
Germination/early vegetative	Germination/early vegetative/vegetative	Germination/early vegetative/vegetative	Early tillering	Seedling / transplanting/Early tiling
Moong	Kharif cotton			
Germination/early vegetative/vegetative	Germination/early vegetative/vegetative			

Madhya Pradesh

Sugarcane	Moong	Kharif crops (Maize, jowar, cotton, urad, tur)	Kharif Soyabean	Kharif rice
Vegetative	Vegetative / flowering	Vegetative	Early vegetative	Tillering

Orissa

Vegetables	Earlier sown vegetables	Early sown Groundnut	Groundnut	Sugarcane (pre-seasonal)	
Sowing / transplanting/vegetative	Flowering / fruiting / harvesting	Early vegetative/vegetative	Sowing	Vegetative/tillering	
Kharif rice	Pulses	Early sown Pulses		jute	
Sowing / nursery sowing / transplanting	Sowing	Early vegetative/vegetative		Vegetative	

Andhra Pradesh

	Kharif rice	Kharif crops (Groundnut/Maize/Chillies/Tur)		
	Transplanting	Vegetative		

Karnataka

Groundnut	Sugarcane	Kharif crops (jowar, maize, cotton)	Kharif rice	Early sown rice
Vegetative	Vegetative -ratoon crop	Vegetative	Nursery sowing	Transplanting

Kerala

Rubber	Virippu Rice			
Tapping	Flowering			

Tamil Nadu

Rice (Navarai)	Millets	Summer irrigated cotton	Early & mid sugarcane	Late season sugarcane
Harvesting	Vegetative	Boll development	Vegetative / Grand growth	Maturity / Harvesting
Rice (Kuruvai)	Pulses	Groundnut		
Transplanting	Early vegetative/vegetative	Early vegetative/vegetative		