

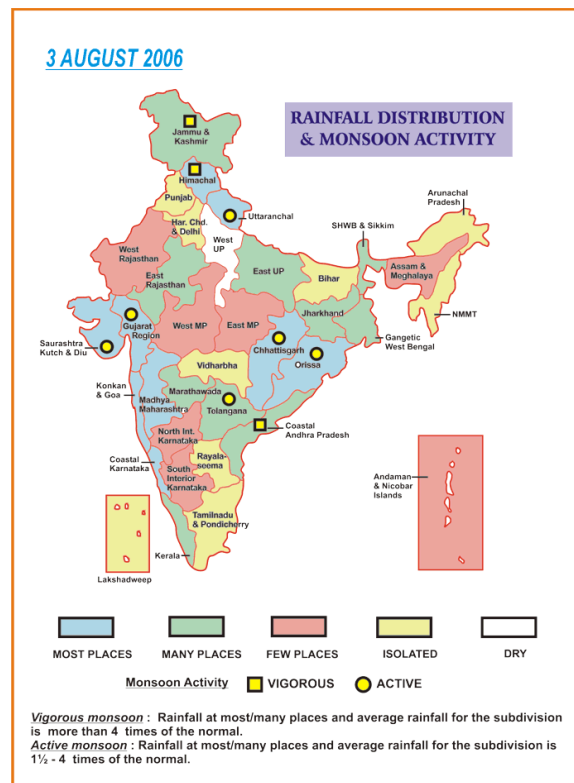


Summary of Agromet Advisory Services for different States of the country
Issued by
Agricultural Meteorology Division, India Meteorological
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Thursday, 3rd August, 2006

(For the period 3rd to 7th August, 2006)

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



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

Punjab & Haryana

Rain / thundershowers occurred at isolated places on 1st August. Rain also occurred at a few places on 31st July and at isolated places on 2nd August.

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

Advisories

- Avoid irrigation in the standing crops in **Amritsar, Bhatinda** and **Patiala** districts of Punjab State and **Bhiwan, Jhajar, Jind, Katihal, Panipat, Mahendragarh, Rewari** and **Sirsa** districts of Haryana State as rainfall was excess during last week. Apply irrigation in the remaining districts of the State as no significant rain occurred during last week and rain / thundershowers are likely at a few places over the State.
- As prevailing weather conditions i.e. rainfall, high humidity and cloudiness may favour the further spreading of the incidences of **top shoot borer** in **sugarcane**, recommended plant protection measures i.e. 12 kg carbofuran or 10 kg phorate may be taken on a non-rainy day.
- Prevailing weather conditions are favourable for further spread of **Jassid, Bollworm** and other leaf eating caterpillar. Adopt adequate plant protection measures on a non-rainy day.

Rajasthan

Light to moderate widespread rainfall occurred at most places in Kota and Udaipur divisions; at many places in Ajmer, Jaipur and Jodhpur divisions and almost dry weather prevailed in Bikaner division. Heavy to very heavy rainfall also occurred at few places in Kota, Udaipur and parts of Jodhpur (Jalore) divisions.

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

Advisories

- Continue sowing of *kharif* crops like groundnut, bajra, maize, soyabean and pulses crops with the help of recent monsoon rain.
- Rainfall occurred at most places in Kota and Udaipur divisions and at many places in Ajmer, Jaipur and Jodhpur divisions. Heavy to very heavy rainfall also occurred at few places in Kota, Udaipur and parts of Jodhpur(Jalore) divisions during last week and rain / thundershowers are likely at a few places over the State for the next three days. Under the circumstances, apply irrigation to cotton depending on soil profile stored moisture.
- Arrange for drainage of excess water in waterlogged areas.

Uttar Pradesh

Rain occurred at many places in Varanasi and Allahabad divisions and at a few places in Faizabad, Kanpur and Lucknow divisions and at isolated places in remaining divisions of State on 31st July. Rain occurred at many places in Varanasi, Faizabad and Agra divisions and at a few places in remaining divisions of the State on 1st August. Rain occurred at many places in Varanasi & Faizabad divisions and at few places in Gorakhpur, Allahabad, Kanpur and Lucknow divisions and at isolated places in remaining divisions of the State on 2nd August.

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

Advisories

- There was excess / normal rainfall during last week in the State except in Ambedkar Nagar, Bahraich, Ballia, Banda, Barabanki, Gonda, Gorakpur, Kheri, Maharajganj, RaiBareilly, Sant Ravidas Nagar, Sonbhadra, Sultanpur, Bijnor, Bulandshahar, Hamirpur, Jotirba Phule Nagar, Mathura and Saharanpur districts and rain or thundershowers are likely at a few places over the State for the next three days. Under the circumstances, apply irrigation to summer sugarcane, vegetables and mango crops depending upon the soil profile stored moisture. Apply irrigation in remaining districts.
- Thinning, weeding and hoeing, along with topdressing of Nitrogen may be done on a non rainy day in maize, jowar, bajra, *kharif* pulses and oilseeds.
- Continue transplanting of *kharif* rice.

Himachal Pradesh

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

Rain / thundershower are likely at many places in the State.

Advisories

- As rain / thundershowers are likely at many places over the State for next three days, postpone irrigation to maize, moong and early sown vegetable crops.
- Also postpone intercultural operation, application of fertilizer and plant protection measures under prevailing weather condition.
- Also make arrangement for draining out excess water from the field as maize crop is highly susceptible to water logging.
- Remove the mulch from the beds of the fruit plants to avoid the standing of water in the beds.
- Postpone sowing of french bean in mid hills and preparation of nursery for cauliflower.

Uttaranchal

Light to moderate rain was recorded at many places on 27th, 29th & 31st July, at a few places on 28th July, while light to heavy rain was recorded at a few places on 2nd August & moderate rain was recorded at isolated places on 1st August. Sky remained partly cloudy to overcast.

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

Advisories

- Light to moderate rain was recorded at many places and heavy rain was recorded at a few places in the State during last week. Rain / thundershowers are likely at many places over the region, for next three days. Under the circumstances, postpone irrigation to **mango, apple, sugarcane** and **vegetable** crops.
- Continue transplanting of **rice** and sowing and transplanting of **cauliflower**.
- Arrange for drainage facilities for excess water to avoid water logging.

Jammu & Kashmir

Light rain occurred at a few places on 1st August and at isolated places on 2nd August. Weather remained mainly dry on 31st July.

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

Advisories

- Rain / thundershowers are likely to occur at many places in the State. Under the circumstances, postpone irrigation to **vegetables, pulses, rice** and **maize**.
- Also postpone intercultural operations, application of fertilizers and pesticides to the crops under prevailing weather condition.
- 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 1st August at many places. Very light rain occurred on 31st July at a few places. Weather remained mainly dry on 2nd August.

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

Advisories

- As rain / thundershowers are likely at a few places over the State for next three days, apply light 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 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 on a non-rainy day. 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 1st & 2nd August. Rain occurred at many places during the period.

Rain is likely to occur at many places in all the districts of the State.

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 **stem borer**, **brown plant hopper**, and **sheath rot** is reported in **rice**. Spray Quinalphos 25 EC @ 750 ml / litre to control **stem borer**. Apply Carbaryl or quinalphos to control **brown plant hopper** as soon as the yellowing symptom is observed, covering the patches and the area surrounding the patches. Spray Hinosan 200 ml/acre in 200 litre of water to control **sheath rot**.
- Attack of **spindle bug**, **bud rot** and **fruit rot (Mahali) diseases** is reported in **arcanut**. Spray the crowns with Carbaryl 50% WP @ 20gm/100 litre of water to control the bug. Continue spraying Boardeaux 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 gm / litre / palm to control **mahali disease**. Spray entire crown of 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 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 31st July, 1st and 2nd August.

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

Advisories

- There was no significant rainfall in the state during last week and rainfall is likely to occur only at a few places over Tamil Nadu for the next three days. Under the circumstances, apply irrigation to **cotton**, **early / mid sugarcane** and **millets** depending upon soil moisture.
- 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 on a non rainy day to control the pests.
- 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 on 2nd August over South Interior Karnataka. Rainfall occurred at most places on all the days over Coastal Karnataka. Over Interior Karnataka, rainfall occurred at a few places on 1st August

and at isolated places on 31st July & 2nd August.

Rain / thundershowers are likely at most places over Coastal Karnataka, at many places over interior Karnataka.

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

Advisories

- Postpone irrigation and top dressing of Nitrogen in **sugarcane, maize, jowar** and **groundnut** as rain / thundershowers are likely to occur at most places in coastal Karnataka and at many places in interior Karnataka.
- Farmers are advised to continue sowing of **kharif rice** by utilizing the monsoon showers.
- Arrange for drainage facilities to avoid water stagnation in case of heavy rainfall in coastal Karnataka.
- Release predators like *Dipha* sp, after current spells of rain, adopt wider spacing and intercropping with soyabean and pulses of short duration for ratoon crop in **Mysore, Mandya, Hassan, Bidar & Bagalkote** districts to control **wooly aphids** in sugarcane.
- Spray Phosphomidon @ 200 ml / ha or Dimethoate @ 600 ml / ha to control **aphids / sucking pests** in **cotton**. Spraying may be undertaken after current spells of rain.

Andhra Pradesh

Southwest Monsoon was vigorous over Rayalaseema & Telangana on 27th July and active over Coastal Andhra Pradesh on 27th July and 2nd August. Rain occurred at most places over Telangana on 28th July & at many places over Telangana on 29th & 30th July and at a few places over Coastal Andhra Pradesh on 28th & 29th July, over Telangana on 31st and over Rayalaseema on 1st August. Isolated rain occurred elsewhere over the State during the week.

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

Warning: Heavy to very heavy rainfall at a few places with extremely heavy falls (more than 25 cm) is likely over north Coastal Andhra Pradesh. Isolated heavy to very heavy rainfall also likely over Telangana.

Advisories

- As rain / thundershowers are likely to occur at most places over north Coastal A.P. and at many places over south Coastal A.P, postpone irrigation to **maize, groundnut, cotton, chilly** and **tur**. Apply irrigation depending upon soil moisture in **Rayalaseema**.
- Postpone intercultural operations, application of fertilizers and pesticides over north and south Coastal A.P. and Telangana. Continue these operations on a non rainy day in Rayalaseema.
- Arrange for extensive drainage facilities as heavy to very heavy rainfall with extremely heavy falls (more than 25 cm) is likely at a few places over north 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 in north and south coastal AP and Telangana to control the vector thereby reducing the spread of disease. Continue spraying on a non rainy day in Rayalaseema.
- Attack of **sucking pest** is reported in **cotton**. Spray Monocrotophos @ 1.6ml / lit of water after spells of rain in north and south coastal AP and Telangana to control the pest. Continue spraying on a non rainy day in Rayalaseema.

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

Assam

Light to moderate rain occurred at a few places on 31st & 1st and at isolated places on 2nd over the State.

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

Advisories

- As **Hailakandi** district received excess rain during last week and rain / thundershowers are likely at a few places over the State for next three days, apply light irrigation to **sugarcane, summer vegetables, and arhar** in this district depending on soil moisture status.
- As the other districts of the State received no significant rainfall during last week, apply irrigation to the crops in these districts.
- Maintain 5 – 7 cm water level in **regular ahu rice** field. 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.
- Infestation of fruit fly and powdery mildew is reported in **vegetables** in few localities. For protection of fruits from fruit fly apply 2 ml Malathion 50EC per litre of water and for damaged fruits 2 ml Diathin Z-78 per litre of water. For control of Powdery Mildew apply 1gm Bavistin per litre of water. Apply the chemicals on a non-rainy day.
- Infestation of rice hispa is reported in **Sali rice** in few localities. Apply plant protection measures to *sali* rice when one adult of rice hispa per hill or one leaf is found damaged by hispa. Apply Monocrotophos 40 EC @ 1.5 ml per litre of water or Chloropyriphos 20 EC @ 2 ml per litre of water on a non-rainy day to control the insect.

West Bengal

SW Monsoon was weak over Sub Himalyan West Bengal on 31st July and over Gangetic West Bengal on 1st August.

During this period moderate rain occurred at isolated places on 31st July, at a few places on 2nd August over the districts of Sub Himalyan West Bengal. Heavy rain occurred on 1st August over the districts of West Bengal. But during the same period moderate rain occurred on 31st July and 2nd August over the districts of Gangetic West Bengal.

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

Advisories

- As rain / thundershowers are likely at many places over the State, postpone intercultural operation, irrigation and application of fertilizer and plant protection measures to **sugarcane, green gram, aus rice, jute and groundnut**.
- Maintain 5 – 7 cm water in the **aus rice** field.
- 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 / thundershower may occur at a few places.

Advisories

- As rain / thundershowers are likely to occur at a few places over the State for the next three days, apply irrigation to **vegetables, maize, pulses, and oilseed** crops depending on the soil profile stored moisture.
- Continue weeding, intercultural operations and application of top dressed Nitrogen in **maize, pulses and oilseeds** on a non-rainy day.
- The farmers are advised to continue transplanting of **rice** seedlings. Apply irrigation to the main field where deficient rainfall received and maintain required 3 – 5 cm of standing water.

Jharkhand

Rain occurred at a few places.

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

Advisories

- Transplanting of **rice** may be continued. Maintain 3 – 5 cm of standing water in the field wherever already transplanted crops are at tillering stage.
- Continue sowing / transplanting of **khariif vegetable** crops.
- Arrange to provide drainage in standing crops.

Sikkim

Sky remained generally cloudy during the period. Moderate to nearly heavy rain occurred at most places on 2nd August & very light to light rain occurred at a few places over East Sikkim on 28th July during the period.

Rain / thundershowers are likely 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.
- Also postpone intercultural operations, application of fertilizers and pesticides to the crops under prevailing weather condition.
- Weather conditions are favourable for the occurrence of **rhizome rot** in **ginger**. Monitor the crop and destroy the affected plants by burning.
- Rouging of **Chirkey** and **foorkey** affected plants may be done at regular intervals and destroyed by burning.
- The **orchards** must be inspected from time to time and plug **trunk borer holes**. Sprouts emerging out of the trunks may be removed.
- Postpone harvesting of **potato**.

Arunachal Pradesh

Rain / thundershower occurred at few places on 27th July and 1st and 2nd August, at one or two places on 30th July and weather remained dry during other days of the week. Sky remained partly cloudy over the State during the week.

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

Advisories

- Complete harvesting of matured **summer vegetable** crops.
- 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 Saurashtra, Kutch, Diu & active over Gujarat region, Daman, Dadra Nagar Haveli on 31st. Rainfall occurred at many places over Saurashtra and at a few places over Kutch on 1st August. Monsoon was vigorous over Gujarat state, Diu, Daman, Dadra Nagar Haveli on 2nd August.

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

Advisories

- Due to heavy rainfall during last week water stagnation and flood like situation occurred in Navsari, Mahua, Vadodara, Bharuch, Anand, Kheda, Surat, Rajkot and Amreli districts of the State. Navsari and Mahua districts are the worst affected. Farmers are advised to make arrangement for extensive drainage over these areas as rain / thundershowers are likely at many places over the State.
- As all 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

Monsoon was vagarious in Bilaspur division on 31st and active on 2nd August.

Rain / thundershowers are likely at most places over South Chattisgarh and at many places over North Chhattisgarh. Heavy to very heavy rainfall at a few places with extremely heavy falls (more than 25 cm) is likely over South Chattisgarh.

Advisories

- As rain / thundershowers are likely at many places over north Chhattisgarh and at most places over south Chhattisgarh with the possibility of heavy to very heavy rainfall at a few places with extremely heavy falls (more than 25 cm) over South Chattisgarh for next three days, postpone intercultural operation, irrigation and application of fertilizer and plant protection measures to Sugarcane and early sown vegetables, green gram, black gram, red gram, soybean, groundnut and *kharif* rice.
- Also make arrangement for draining out of excess water from the field under prevailing weather condition.
- Also postpone sowing of *Kharif* vegetables, red gram, green gram, black gram, soybean, groundnut and transplanting of *Kharif* rice.

Maharashtra

Monsoon was active in North Madhya Maharashtra on 31st July. Rainfall occurred at most places over Konkan, North Madhya Maharashtra, at many places in South Madhya Maharashtra, at a few places over Marathwada & Vidarbha.

Rain / thundershowers are likely at most places over Konkan and Goa, Madhya Maharashtra & Vidarbha and at a few places over Marathwada. Isolated heavy to very heavy rainfall likely over Konkan and Goa, vidarbha and Marathwada. Enhanced rainfall activity is likely to continue over Konkan & Goa.

Advisories

- Due to heavy rainfall during last week water stagnation and flood like situation occurred in Satara, Sangli, Solapur and Kolapur districts of the State. 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.
- As there was no significant rainfall during last week in the districts of Marathwada and rain / thundershowers are likely at a few places over this region for next three days, apply light irrigation to

Sugarcane, Jowar, *Kharif* groundnut, bajra, soybean, sunflower, *kharif* cotton, tur, moong and Cotton (irrigated).

- Undertake intercultural operation on a non-rainy day in Marathwada to keep the field weed free.
- For the control of White Woolly Aphids of sugarcane release 2500 eggs or larvae of *Chrysoperla Carnea* or *Konobatra aphidivora* parasite on the leaves or spray Endosulphan @ 1 ml. plus Metasistox @ 1 ml. mixed in 1 liter water on a non-rainy day in Marathwada.
- As rain / thundershowers are likely at most places over Madhya Maharashtra and Vidarbha with possibility of isolated heavy to very heavy rainfall, postpone irrigation over these regions and make arrangement for draining out excess water from the field.
- Also postpone intercultural operation, application of fertilizer and plant protection measures under prevailing weather condition.

Madhya Pradesh

Monsoon has been vigorous in East M.P. on 31st July, in West M.P. on 1st August and active in South West M.P. on 31st July. Rainfall also occurred at most places in South East M.P. on 1st August, at many places in North West M.P. on 31st July and South West M.P. on 2nd August and at a few places in rest of the State on remaining period.

Rain / thundershowers are likely at many places over East Madhya Pradesh, at a few places over West Madhya Pradesh. Increase in rainfall activity likely during next 2-3 days.

Rainfall activity is likely to increase over West Madhya Pradesh.

Advisories

- Thinning, weeding and hoeing of cotton, maize, soybean, urad, jowar may be done on a non-rainy day in west Madhya Pradesh and after current spells of rain in East Madhya Pradesh.
- As rain / thundershowers are likely at many places over East Madhya Pradesh with isolated heavy falls likely for next three days, postpone irrigation to sugarcane, soybean and moong.

Orissa

Rainfall occurred at most places over the State on 1st and 2nd August and at isolated places on 31st July. Heavy to very heavy fall occurred at isolated places over the State on 1st & 2nd August.

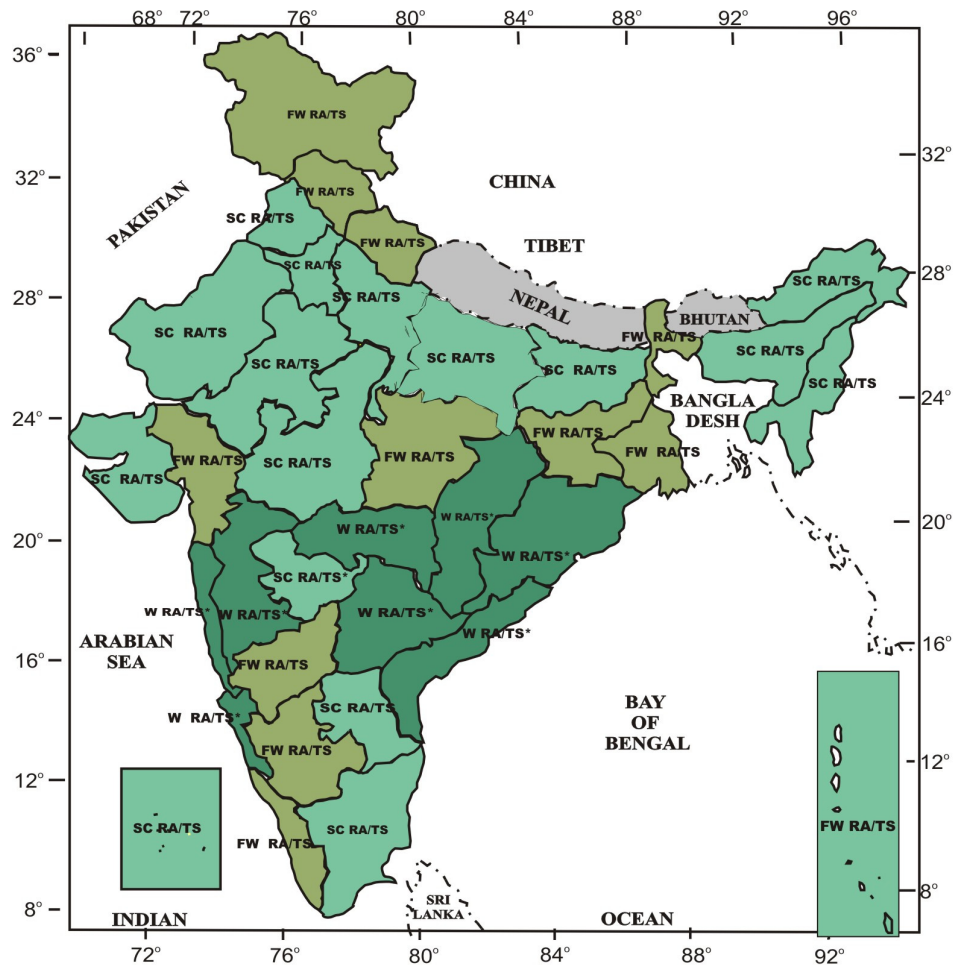
Rain / thundershowers are likely at most places over the State.

Warning: Heavy to very heavy rainfall at a few places with extremely heavy falls (more than 25 cm) is likely over south Orissa.

Advisories

- Rain fall occurred at most places over the State with heavy to very heavy fall at isolated places. Rain / thundershowers are likely at most places over the State with the possibility of heavy to very heavy rainfall at a few places with extremely heavy falls (more than 25 cm) over south Orissa. Under the circumstances, postpone irrigation to vegetables, sugarcane and jute crops.
- Undertake drainage of excess water to avoid water logging.
- Farmers are advised to postpone land preparation and sowing of *kharif* crops like rice, groundnut and pulses under prevailing weather condition.
- Also postpone intercultural operation, application of fertilizer and plant protection measures.

Forecast valid upto 6th August, 2006



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

Salient weather features for the week ending 02/08/06

METEOROLOGICAL ANALYSIS

- A low pressure area formed over northwest Bay of Bengal off north Orissa-West Bengal coast on 27th. It became well marked over the same region on 28th. It lay over coastal areas of West Bengal and Orissa and adjoining northwest Bay of Bengal on 29th, over north Chhattisgarh and neighbourhood on 30th, over northwest Madhya Pradesh and neighbourhood on 31st and over southeast Rajasthan and neighbourhood on 1st August. It moved away westwards on 2nd.
- An upper air cyclonic circulation extending upto mid-tropospheric level lay over north Bay of Bengal off Orissa-West Bengal Coast on 31st July. Under its influence, a well marked low pressure area formed over northwest Bay of Bengal off north Orissa-West Bengal coast on 1st August. It concentrated into depression and lay centred at 0830 hours IST of 2nd August 2006 near latitude 20.5° N and longitude 87.5° E about 100

Km east-southeast of Chandbali. It further intensified into a deep depression and lay centred at 1430 hours IST of same day near latitude 20.0° N and longitude 87.0° E, about 50 Km east-southeast of Paradip. Subsequently the system crossed Orissa coast between Gopalpur and Puri around 0830 hours IST of 3rd August. Moving in a westerly direction it lay centred at 1430 hours IST of 3rd near Lat. 19.5 E & Long 84.5 E about 50 km northwest of Gopalpur.

- Last week's cyclonic circulation over central Uttar Pradesh and neighbourhood persisted upto 28th. It lay as a low pressure area over West Madhya Pradesh and adjoining southeast Rajasthan on 29th, over southeast Rajasthan & adjoining West Madhya Pradesh and Gujarat on 30th and moved away westwards on 31st July.
- Last week's cyclonic circulation over southwest Bay of Bengal and adjoining coastal Tamil Nadu became less marked on 27th.
- The axis of monsoon trough at sea level lay either in its normal position or to the south of the normal position throughout the week.

RAINFALL

Under the influence of the above systems:

- The southwest monsoon was active/vigorous causing scattered heavy to very heavy rainfall over eastern India except Bihar, Jharkhand & Sub-Himalayan West Bengal & Sikkim and over Central India except Vidarbha and over Gujarat, Rajasthan and Madhya Maharashtra of West India during many days of the week. It was also active/vigorous causing isolated heavy to very heavy rainfall over some sub-divisions of northwest India and southeast Peninsula during first two days of the week.
- Apart from the above, fairly widespread rainfall with isolated heavy falls occurred over the Konkan & Goa and Coastal Karnataka during many days of the week. Fairly widespread rainfall also occurred over Nagaland, Manipur, Mizoram & Tripura during many days of the week.
- Scattered/isolated rainfall activity was experienced over the remaining meteorological subdivisions during many days of the week.

Rainfall During The Week Ending on 2nd August, 2006

Rainfall was excess/normal in 22, deficient/scanty in 13 and no rain in 01 (Lakshadweep) out of 36 meteorological sub-divisions (Actual: 84.2 mm, Normal: 66.7 mm and Departure: 26%).

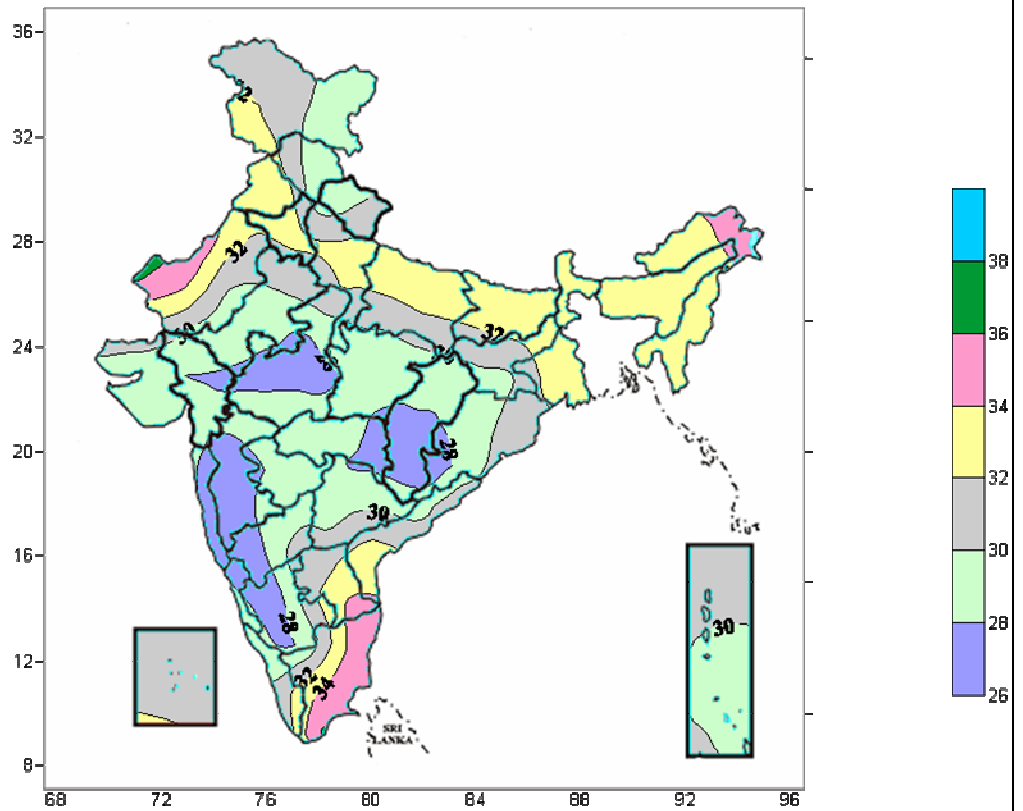
Cumulative Seasonal Rainfall (1st June to 2nd August, 2006)

Rainfall was excess/normal in 26, deficient/scanty in 10 out of 36 meteorological sub-divisions. (Actual: 441.2 mm, Normal: 474.8 mm and Departure: -7%).

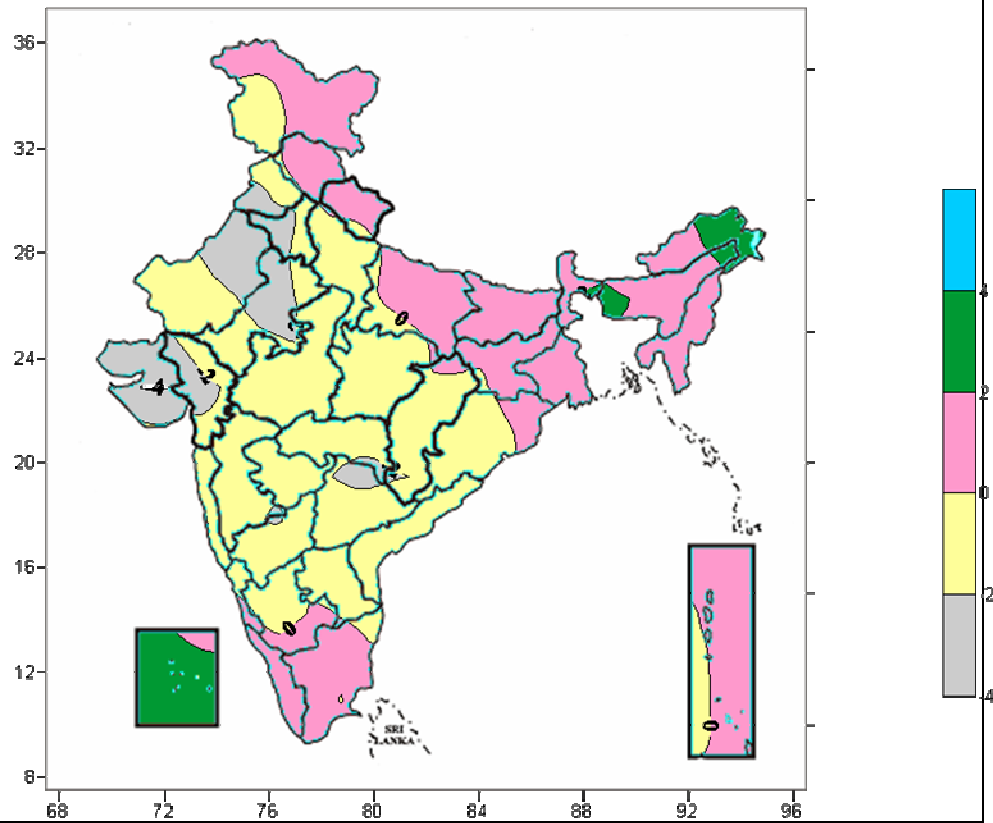
Outlook for the week ending on 9th August, 2006.

- As the deep depression is expected to move in a west-northwestly direction, the enhanced rainfall activity is likely to extend westwards across Chhattisgarh, Vidarbha, Madhya Pradesh, Gujarat Region and adjoining southeast Rajasthan.
- Current rainfall activity is likely to continue over Konkan & Goa.

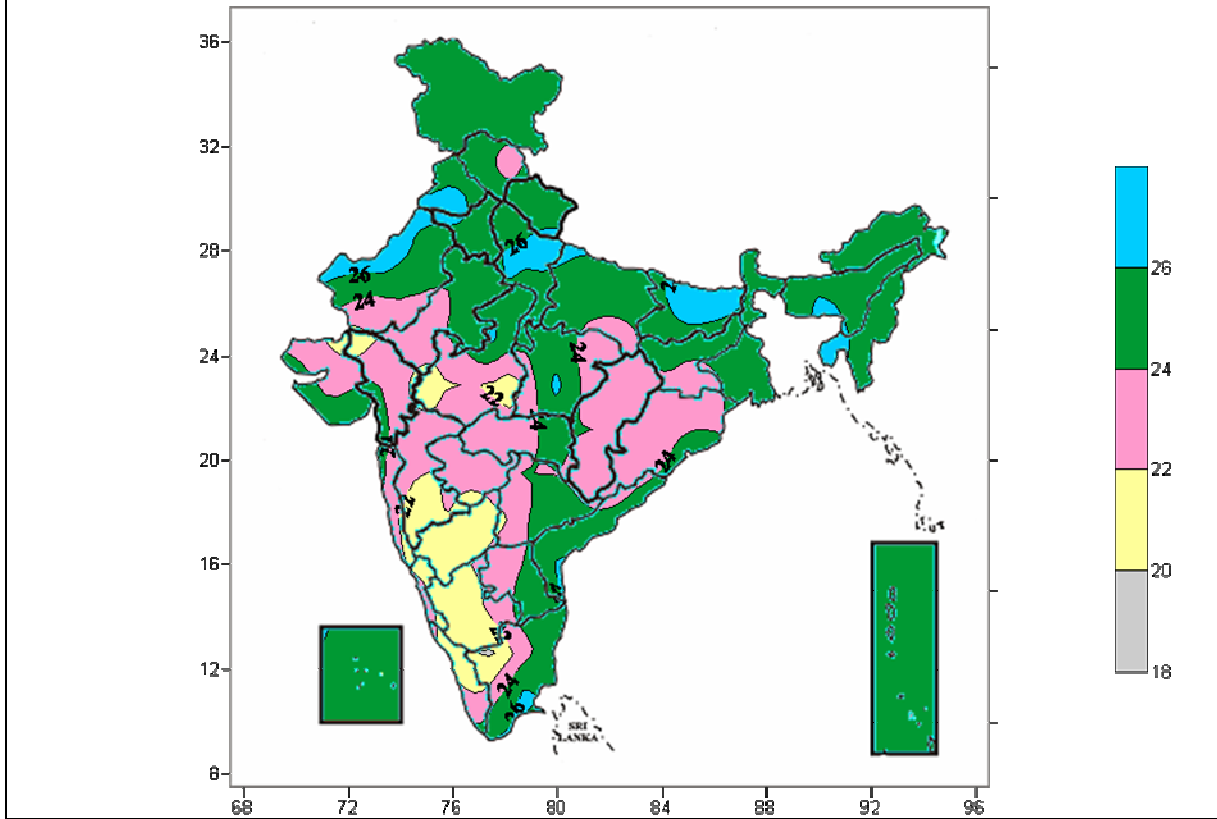
Actual mean maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 02.08.06



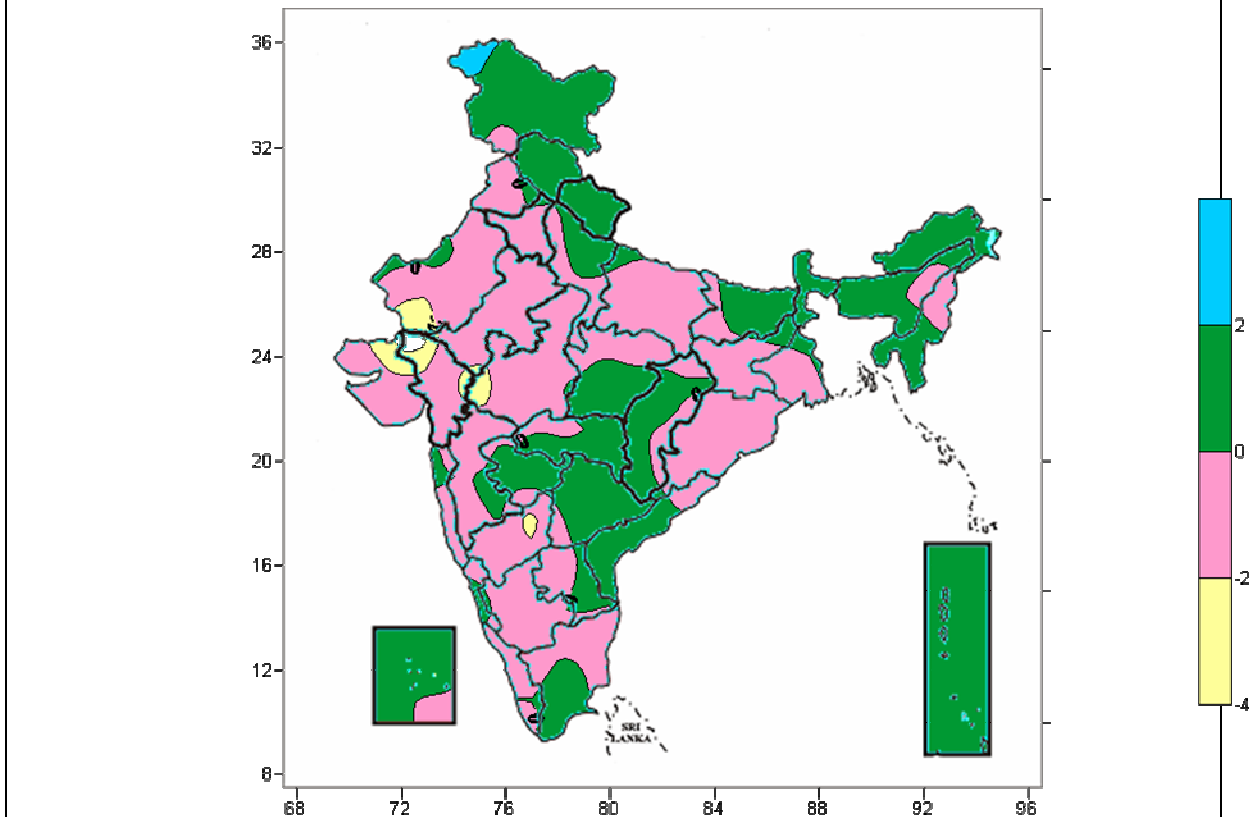
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 02.08.06



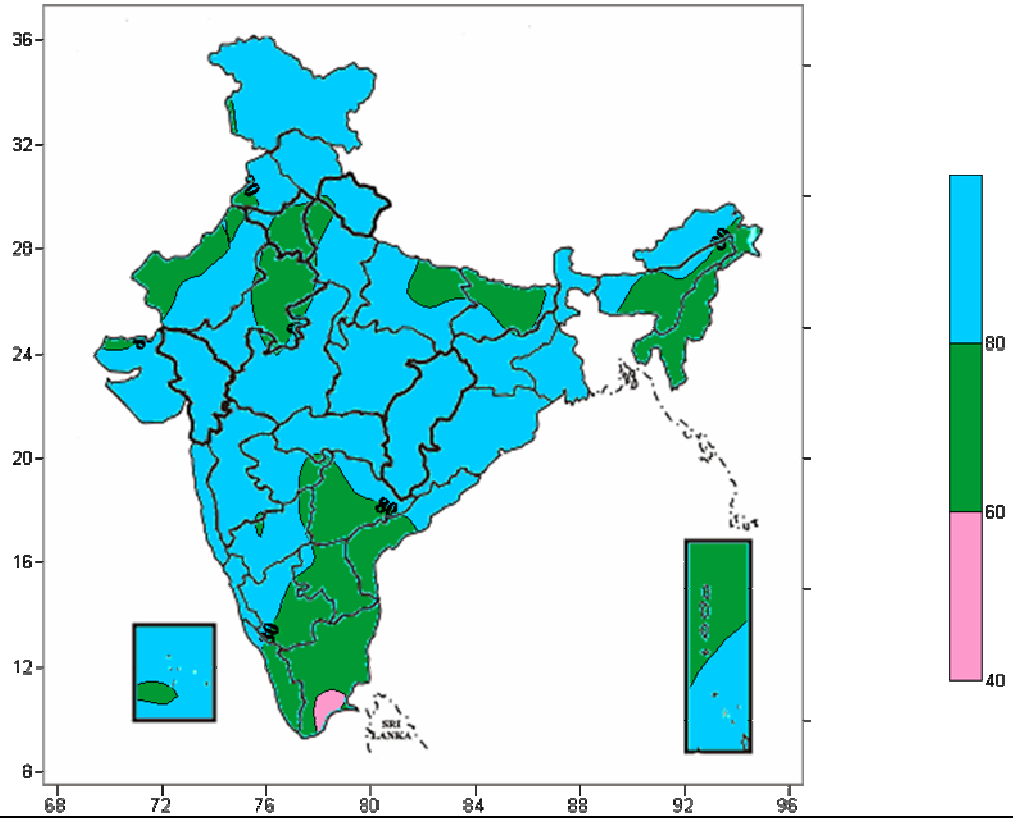
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 02.08.06



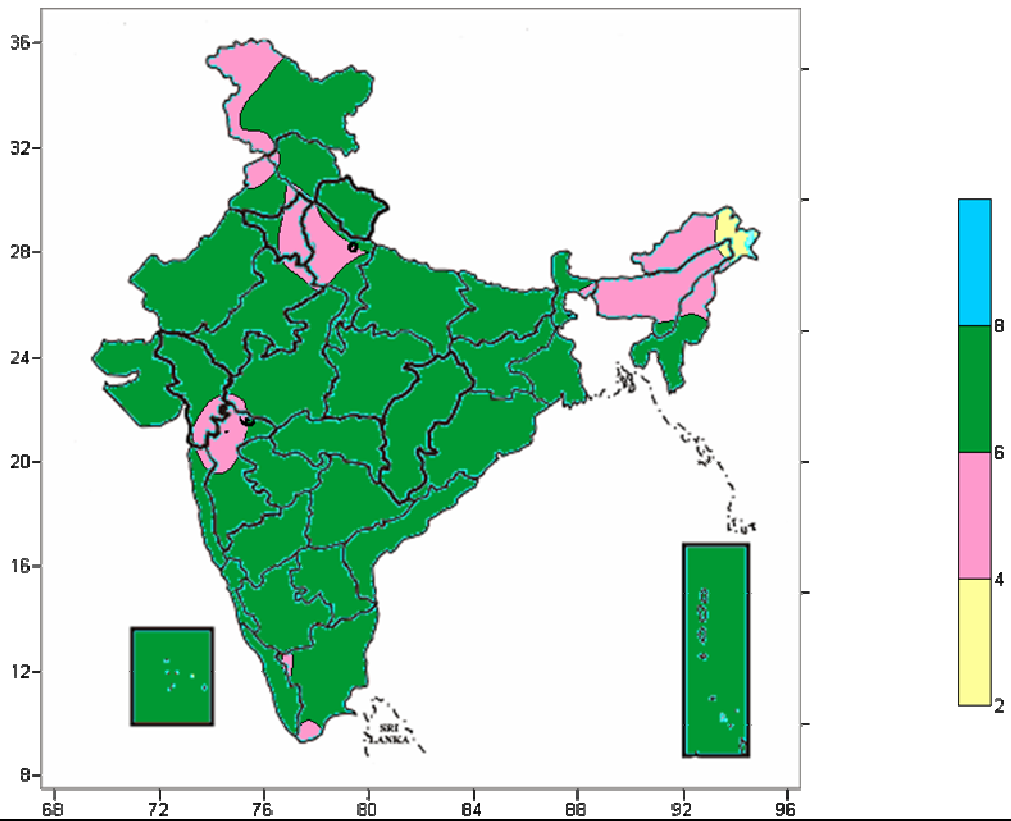
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 02.08.06



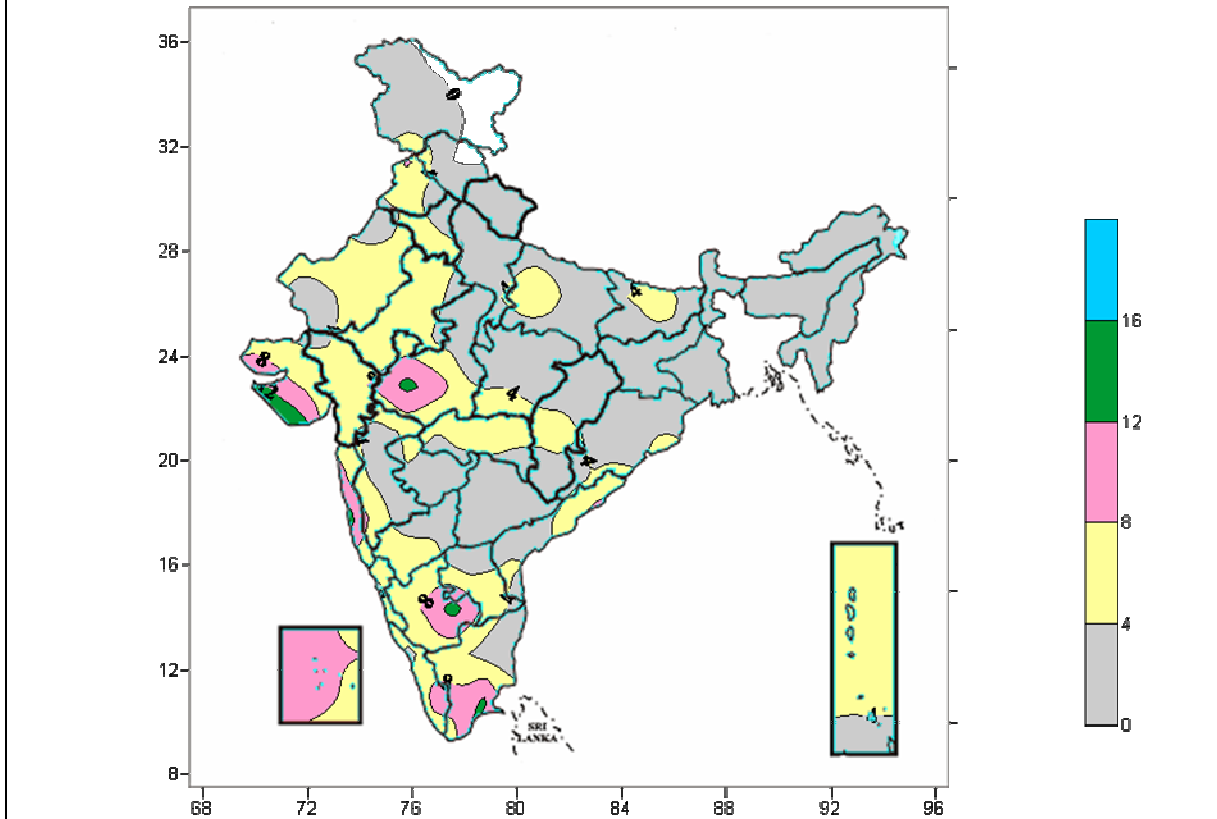
Relative humidity (%) over India for the week ending 02.08.06



Cloud amount (okta) over India for the week ending 02.08.06



Wind speed (knots) over India for the week ending 02.08.06



Desert Locust Forecasting



| Station Name | Rainfall (mm) | | | | | | |
|---------------|---------------|---------|---------|---------|---------|--------|--------|
| | 27.7.06 | 28.7.06 | 29.7.06 | 30.7.06 | 31.7.06 | 1.8.06 | 2.8.06 |
| Amritsar | 13.3 | 26.0 | - | - | - | - | - |
| Barmer | - | - | - | 28.0 | 6.2 | - | 8.0 |
| Sriganganagar | 4.1 | - | - | - | 4.2 | 2.8 | - |
| Jaisalmer | - | - | - | - | 3.5 | - | - |
| Kota | 7.3 | 26.0 | 23.7 | 3.4 | 3.4 | 0.1 | - |
| Deesa | 0.2 | 15.6 | 50.8 | 7.6 | 20.2 | 74.6 | 49.2 |
| Churu | 21.0 | 11.6 | 0.2 | 4.2 | - | - | - |

| Temperature (degree celsius) | | | | | | | |
|------------------------------|---------|---------|---------|---------|---------|--------|--------|
| Station Name | 27.7.06 | 28.7.06 | 29.7.06 | 30.7.06 | 31.7.06 | 1.8.06 | 2.8.06 |
| Amritsar | 27.5 | 31.0 | 30.0 | 28.5 | 32.5 | 30.5 | - |
| Barmer | 28.5 | 28.0 | 30.5 | 29.0 | 29.5 | 30.0 | - |
| Sriganganagar | 28.0 | 29.5 | 31.0 | 32.5 | 28.0 | 31.5 | - |
| Jaisalmer | 30.5 | 31.0 | 32.5 | 34.0 | 32.0 | 33.5 | - |
| Kota | 27.5 | 27.0 | 26.0 | 28.0 | 29.0 | 26.5 | - |
| Deesa | 27.0 | 26.0 | 25.0 | 24.5 | 26.0 | 23.5 | - |
| Churu | - | - | - | - | - | - | - |

| Wind | | | | | | | | | | | | | | |
|---------------|---------|------|---------|------|---------|------|---------|------|---------|------|--------|------|--------|------|
| Station Name | 27.7.06 | | 28.7.06 | | 29.7.06 | | 30.7.06 | | 31.7.06 | | 1.8.06 | | 2.8.06 | |
| | Speed | Dir. | Speed | Dir. | Speed | Dir. | Speed | Dir. | Speed | Dir. | Speed | Dir. | Speed | Dir. |
| Amritsar | - | - | 15 | ESE | - | - | 10 | SE | 05 | NW | 05 | NE | 05 | NE |
| Barmer | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sriganganagar | 07 | SW | 10 | N | 10 | E | 15 | E | 20 | E | 27 | ENE | 20 | ESE |
| Jaisalmer | - | - | 10 | NE | 25 | N | 20 | NE | 25 | NE | - | - | - | - |
| Kota | 11 | WNW | - | - | - | - | - | - | - | - | - | - | 25 | WSW |
| Deesa | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Churu | - | - | 15 | NNE | 10 | ESE | 20 | E | 25 | ENE | - | - | 06 | ESE |

Locust adults are present along the **Indo-Pakistan** border. Good rains have fallen in most of these areas and small-scale breeding in August will cause locusts to increase slightly. It is advised to make continuous monitoring in north-western region of the country.

CROP – STATE – STAGE

| Delhi | | | | |
|--|---|--|---|------------------------------|
| Early sown Vegetable crops | Kharif vegetables | Arhar | Bajra | Green gram, black gram |
| Vegetative / Flowering / fruiting / harvesting | Transplanting | Early vegetative / vegetative | Germination / seedling / early vegetative | Pod formation |
| Fodder (Mixed maize , Lobia) | Maize | Rice | | |
| Vegetative | Germination / seedling / early vegetative | early vegetative / tillering | | |
| Haryana | | | | |
| | Sugarcane | Paddy | Maize | Cotton |
| Kharif pulses / groundnut | Vegetative | Transplanting / Vegetative(already sown paddy) | Germination/ seedling/ early vegetative | Vegetative/ square formation |
| Germination/ seedling/ early vegetative | Horticultural crop | | | |
| Sowing/ germination | Vegetative/fruiting | | | |
| Himachal Pradesh | | | | |
| Rice | Maize | Apple | Tomato, brinjal, ladies finger | Fodder crops |
| Early vegetative / tillering | Vegetative / tasseling | Maturity / harvesting | Vegetative/flowering/ fruiting / harvesting | Vegetative |
| Moong / Mash | Fruit plants | | | |
| Pod development | fruiting | | | |
| Jammu & Kashmir | | | | |
| Vegetables crops | Rice | Maize | Kharif crops | Horticulture crops |
| Vegetative | tillering | Vegetative | vegetative | planting |

| Punjab | | | | |
|--|--|--|---|--|
| Sugarcane | Paddy | Maize | Cotton | Kharif pulses / groundnut |
| Vegetative | Transplanting/ Vegetative (Early sown paddy) | Germination / seedling/ early vegetative | Vegetative / square formation | Germination/ seedling/ early vegetative |
| Rajasthan | | | | |
| Cotton | Groundnut | Bajra / Maize / Soyabean / Pulses | | |
| Vegetative | seedling | Sowing | | |
| Uttar Pradesh | | | | |
| Kharif Maize, Jowar, Bajra | Kharif Pulses (Urad & Moong) | Sugarcane | Kharif Vegetables | Summer vegetables |
| Seedling | Seedling | Vegetative | Transplanting / early vegetative | harvesting |
| Mango | New Mango | Kharif rice | Early sown rice | Kharif Oilseeds (Til, Soybean, Groundnut) |
| Harvesting | Active growth | Transplanting | Early vegetative | Seedling |
| Uttaranchal | | | | |
| Rice & cauliflower | Mango | Lady's finger / French Bean | Sugarcane | Chilli & Tomato |
| Seedling / vegetative | Maturity | Fruiting | Tillering | Fruiting / maturity |
| Apple | | | | |
| Fruit growth/maturity | | | | |
| Assam | | | | |
| Maize | Sugarcane | jute | Summer vegetables | Arhar |
| maturity / harvesting | Vegetative / cane formation | Maturity / harvesting | Maturity / harvesting | Seedling / early vegetative / vegetative |
| Sali rice | Regular ahu rice | Early ahu rice | | |
| transplanting | grain formation / maturity | harvesting | | |
| Arunachal Pradesh | | | | |
| Wet seeded rice | ginger | millet | Summer vegetables | Jhum Paddy |
| Grain formation | Sowing | Harvesting | End Harvesting | Grain formation stage |
| | Early sown ginger | | | |
| | Sprouting stage | | | |
| Bihar | | | | |
| Vegetables | Rice | Maize | Pulses and Oil seeds | |
| Vegetative | Transplanting | Vegetative | Vegetative | |
| Jharkhand | | | | |
| Rice | Upland crops (rice, maize, groundnut, arhar, urad) | | Finger millet | Maize |
| transplanting | Seeding | | 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 | Vegetative / tillering (low hills) tillering (high hills) | Seed development | Vegetative / fruiting | Tuber harvesting (in low & mid hills) |
| Maize | Ginger | | | |
| cob development / maturity | Vegetative | | | |
| West Bengal | | | | |
| Aus rice | Sugarcane | Jute | Green Gram | Aman rice |
| Flowering / grain formation | Vegetative | Vegetative / maturity | Vegetative / Flowering | transplanting |
| Groundnut | | | | Early transplanted rice |
| Seedling / early vegetative / vegetative | | | | Early vegetative |

| Chattisgarh | | | | |
|---|--|--|----------------------------------|---|
| Blackgram / Greengram | Kharif Vegetables | Sugarcane | Kharif rice | Early transplanted rice |
| Sowing | Sowing / transplanting | Vegetative | Land preparation & transplanting | Early vegetative / tillering |
| Green gram / Black gram(early sown) | Early sown kharif vegetables | Groundnut | Red Gram | Early sown red gram |
| Vegetative / flowering / pod formation | Vegetative / flowering / fruiting / harvesting | Sowing | Sowing | Germination / seedling / vegetative |
| Soybean | Early sown soybean | Early sown groundnut | | |
| Sowing | Germination / seedling / vegetative | Germination / seedling / vegetative | | |
| Gujarat | | | | |
| Kharif Maize | Castor | Kharif groundnut | Kharif Rice | Sugarcane |
| early vegetative / vegetative | sowing | early vegetative / vegetative | Transplanting | Vegetative / elongation |
| Kharif Cotton | Premonsoon irrigated Cotton | Kharif bajra | Early sown rice | |
| early vegetative / vegetative | Vegetative / square formation | early vegetative / vegetative | Early tillering / tillering | |
| Maharashtra | | | | |
| Kharif Groundnut / Cotton / sunflower | Tur / moong | Irrigated Cotton | Sugarcane (Seasonal) | Bajra |
| Germination/early vegetative | Germination/early vegetative | Vegetative | Early vegetative | Germination/early vegetative |
| Jowar | Kharif sunflower | Soyabean | Kharif rice (Konkan) | Kharif rice (Madhya Maharashtra, Marathwada & Vidarbha) |
| Germination/early vegetative | Germination/early vegetative | Germination/early vegetative | transplanting/early tillering | germination / seedling / transplanting |
| Madhya Pradesh | | | | |
| Sugarcane | Moong | Kharif crops (Maize, jowar, cotton, urad, tur) | Kharif Soyabean | Kharif rice |
| vegetative | Vegetative / flowering | Seedling / early vegetative | Seedling / early vegetative | transplanting |
| Orissa | | | | |
| Vegetables | Earlier sown vegetables | Early sown Groundnut | Groundnut | Sugarcane (pre-seasonal) |
| Sowing / transplanting / vegetative | Flowering / fruiting / harvesting | Germination / early vegetative/vegetative | Sowing | Vegetative/tillering |
| Kharif rice | Pulses | Early sown Pulses | | jute |
| Sowing / nursery sowing / transplanting | Sowing | Germination / early vegetative/vegetative | | Vegetative |
| Andhra Pradesh | | | | |
| | Kharif rice | Kharif crops(Groundnut/Maize/Chillies/Cotton /Tur) | | |
| | Nursery sowing | vegetative | | |
| Karnataka | | | | |
| Sugarcane | Kharif crops (jowar, maize, cotton) | Kharif rice | | Early sown rice |
| Vegetative | vegetative | Nursery sowing | | transplanting |
| | | | | |
| Rubber | Virippu Rice | | | |
| Tapping | Panicle initiation / flowering | | | |
| Tamil Nadu | | | | |
| Rice (Navarai) | Millets | Summer irrigated cotton | | Early & mid sugarcane |
| Harvesting | Vegetative (sorghum – sowing) | Boll formation / development | | Vegetative / Grand growth |
| Rice (Kuruvai) | Pulses | Groundnut | | |
| Nursery / Transplanting | vegetative | Sowing / early vegetative / vegetative | | |