

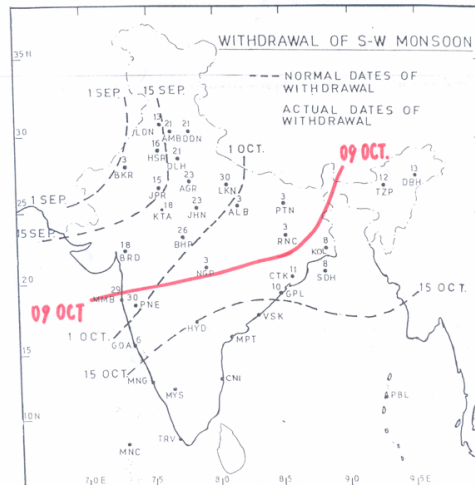


Summary of Agromet Advisory Services for different States of the country
Issued by
Agricultural Meteorology Division, India Meteorological
Department, Pune, India

Thursday, 12th October, 2006

(For the period 12th October to 16th October, 2006)

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



On 9th October southwest monsoon has further withdrawn from remaining parts of East Uttar Pradesh, Madhya Pradesh & Gujarat, entire Bihar & Sub-Himalayan West Bengal & Sikkim, most parts of Jharkhand and northern parts of Gangetic West Bengal, Chhattisgarh & Maharashtra. The withdrawal line passes through Cooch Behar, Bankura, Durg, Akola and Dahanu.

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

Punjab

Weather remained dry.

Dry weather is likely over the State.

Advisories

- Conserve moisture wherever the crops are at maturity stage.
- Cotton crop is susceptible to the incidence of bollworm and other leaf eating caterpillar. Farmers are advised to undertake plant protection measures against spotted boll worm by spraying Quinalphos @ 1.5-2 litres/ha in 800 litres of water.
- Incidences of shoot borer and Gurdaspur borer are reported in sugarcane. Spray Nuvacran @ 1.5 litres of water to control the pests, if the population exceeds ETL.
- Farmers are advised to monitor the locust and carry out antilocus operations i.e. spray of pesticides on standing crops and vegetation to manage the damage from any possible locust invasion.
- Undertake sowing of berseem along with javi and sarson by utilizing the residual moisture. Also conserve soil moisture to take up sowing of rabi crops.

Haryana

Weather remained dry.

Mainly dry weather is likely over the State.

Advisories

- Conserve moisture wherever the crops are at maturity stage.
- Incidences of **boll worm** are reported in **cotton**. Spray Monocrotophos @ 1.5 litre/ha in 800 litres of water to control the pests, if the population exceeds ETL.
- Farmers are advised to monitor the locust and carry out **antilocust** operations i.e. spray of pesticides on standing crops and vegetation to manage the damage from any possible locust invasion.
- Undertake sowing of **berseem** by utilizing the residual moisture. Also conserve soil moisture to take up sowing of **rabi** crops.
- Continue harvesting of **rice, groundnut, maize and pulses** on bright sunny days.
- This is proper time for sowing **wheat and gram**. Use the certified seed of recommended varieties i.e. WH-542,147,157 711 C-306 (Barani Conditions) and PBW-343, WH-711, WH-423 Sonak PBW-373 (Irrigated conditions) for wheat. Select desi and kabuli varieties for gram.

Rajasthan

Weather remained dry in all divisions of the State.

Mainly dry weather is likely over the State.

Advisories

- As all the standing crops in the state are now at maturity stage, conserve moisture in the soil.
- Continue harvesting of matured crops of **bajra, maize and pulses**.
- This is proper time for sowing **mustard**. Continue land preparation and sowing.

Uttar Pradesh

Weather was mainly dry in all divisions of the State during the period.

Weather is likely to be mainly dry in the State.

Advisories

- There was no significant rain during last week and mainly dry weather is likely to prevail over the State for the next three days. Under the circumstance apply irrigation to bring the soil moisture to its field capacity.
- Continue weeding and hoeing, along with top dressing of nitrogen to **toria**.
- To control **gummosis** disease in **mango** spray solution of Napthalene Acetic Acid 200 PPM and 4ml planofix / 9 litre of water.
- Transplanting of winter vegetables like **cauliflower, brinjal, chilli and tomato** may done.
- Harvesting of matured **sugarcane, pulses, oilseeds and vegetables** may be done.

Himachal Pradesh

The weather was mainly dry during the week in the state.

Mainly dry weather is likely over the state.

Advisories

- As there was no rain during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to **vegetable** crops to bring the soil moisture to field capacity.
- Conserve soil moisture wherever the crops are at maturity stage.
- Harvest the matured crops of **rice, maize, potato, moong and apple**.
- Continue land preparation and sowing of **Arcle peas** in the high hills and preparation of nursery of **cauliflower** and **cabbage** in lower hills and transplanting of **cauliflower** and **cabbage** in mid hills and sowing of **radish, turnip and carrot**.
- Monitor the crop for attack of **citrus leaf minor**, if attack crosses economic threshold level, spray Nuvan @ 1ml per litres of water and repeat spray if it persists.

Uttaranchal

Mainly dry weather prevailed during the period. Sky remained mainly clear.

Mainly dry weather is likely over the State.

Advisories

- Weather was dry in the state during last week and mainly dry weather is likely to prevail over the State for next 3 days. Under the circumstances, apply irrigation to **mango**, **sugarcane** and **vegetable** crops to bring the soil moisture to its field capacity.
- Maintain 5 – 7 cm water in **rice** field.
- Continue sowing of **toria**, **pea** and **potato**.

Jammu & Kashmir

Weather remained mainly dry over the State.

Weather will be mainly dry in the State.

Advisories

- Keep vigil against **desert locust** to prevent crop damage.
- Conserve moisture wherever the crops are at maturity stage.
- Continue sowing of **carrot**, **beet root** and **turnip** for seed crop in Jammu division. Undertake transplanting of **methi**, **palak**, **coriander**, **radish**, **cabbage** and **knol-khol** in Kashmir division.
- Continue sowing of **toria** crop in Jammu division and **brown sarson**, **lentil** and **wheat** in Kashmir division to utilize residual moisture. Before sowing, undertake ploughing followed by planking to conserve moisture.
- This is proper time for sowing **sarson**. Select GSL1 and DGS 1 for sowing in Kashmir division.

Delhi

Weather remained mainly dry.

Mainly dry weather is likely over the State.

Advisories

- As there was no rainfall during last week and mainly dry weather is likely over the State for next three days, apply irrigation to **early sown vegetable crops** and **bajra** to bring the soil moisture to its field capacity.
- Prepare land and continue transplanting of 4 – 6 weeks old varieties of **cauliflower** and **cabbage** plants.
- Prepare nursery for snowball variety of **cabbage** and **cauliflower** varieties like Pusa Synthetic, Pusa Subhra and Pusa Himjyoti.
- Prepare land and perform sowing of Japani White and White Asikal varieties of **raddish**, Pusa Kesar, Pusa Mughali, Pusa Desi and Nanty varieties of **carrot** and Pusa kanchan, Purple top, White Glone, golden Ball and Pusa Chandrama varieties of **turnip**. Treat the seeds with Captan or Thairam or Dithane M- 45 @ 2 g / kg seeds.
- Prepare land and continue sowing of **toria**, **mustard** and **berseem**.
- Monitor ergot disease of **bajra** and if noticed, remove the plants and burn them well outside the field.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Southwest monsoon was weak over the State on 11th October. Rain occurred at many places on 9th & 10th October and at a few places on 11th October.

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

Warning: Isolated heavy falls are likely over the State.

Advisories

- Rain/thundershowers are likely to occur at many places in the State for the next three days. Under the circumstance, postpone irrigation to plantation crops.
- Arrange for drainage facilities in case of heavy rainfall.
- Continue intercultural operations and fertilizer application after spells of rain in **arecanut, coconut, pepper, rubber and banana**.
- Attack of **gall midge** is reported in **mundakan** rice nursery. Dip the roots of seedlings in 0.02% Chlorpyrifos for 12 hours at the time of transplanting to prevent further spread.
- Attack of **rhinoceros beetle** and **red palm weevil** insects and **stem bleeding** disease is reported in **coconut**. Hook out the beetles from the affected palms and fill the leaf axils with Sevidol 8 G @ 25 gm and fine sand 200 gm. Use Pheromone trap for controlling **red palm weevil**. Cut **stem bleeding** affected region and paste with coal tar. Spraying of chemicals may be continued after spells of rain.

Tamilnadu

Rainfall occurred at a few places over the State on 9th and 11th October and at isolated places on 10th October.

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

Advisories

- There was no significant rainfall in the state except in **Cuddalore, Dharmapuri, Dindigul, Krishnagiri, Nilgiris, Pudukkottai, Salem, Sivagangai, Theni, Thiruvavur, Thiruvannamalai, Vellore and Villupuram** districts during last week and rain/ thundershowers is likely to occur at a few places over the State for the next three days. Under the circumstances, apply required irrigation to **pulses, early/mid sugarcane and millets** to bring the soil moisture to its field capacity. Apply irrigation depending upon soil profile stored moisture in the above mentioned districts.
- Continue nursery sowing of **samba rice**.
- Continue intercultural operations to keep the field weed free and application of fertilizers and pesticides on a non rainy day to **early/mid sugarcane and kar rice**.
- Monitor **sugarcane** for **internode borer**. Release *Trichogramma chilonis* parasite @ 5 cc / ha on a non rainy day to control the pest. Repeat after 15 days.
- Complete harvesting of **late season sugarcane, pulses, groundnut and millets**. Continue picking of matured kapas of **cotton** on bright sunny days.

Karnataka

Monsoon was active on 9th October and weak on 10th & 11th October over Coastal Karnataka. Over North Interior Karnataka, it was weak on 10th & 11th October. Over South Interior Karnataka, it was active on 9th October and weak on 11th October. Rainfall occurred at isolated places on 10th & 11th October over Coastal Karnataka. Over North Interior Karnataka, rainfall occurred at a few places on 9th October and at isolated places on 10th & 11th October. Over South Interior Karnataka, rainfall occurred at isolated places on 10th & 11th October.

Rain / thundershowers likely to occur at many places over Coastal Karnataka, at a few places over South Interior Karnataka and at isolated places in North Interior Karnataka.

Warning: Isolated heavy falls are likely over Coastal Karnataka.

Advisories

- Postpone irrigation, intercultural operations and application of fertilizers in Coastal Karnataka as rain / thundershowers likely to occur at many places for the next three days.
- Arrange for drainage facilities as heavy rainfall is likely to occur at isolated places.

- There was no significant rainfall in Interior Karnataka during last week. Rain / thundershowers are likely at a few places over South Interior Karnataka and at isolated places in North Interior Karnataka for the next three days. Under the circumstances, apply irrigation to **sugarcane, maize, jowar and groundnut** crops to bring the soil moisture to its field capacity.
- **Woolly aphid** incidence in **sugarcane** is reported at **Mysore, Mandya, Hassan, Bidar & Bagalkote** districts. Release predators like *Dipha* sp after spells of rain in coastal Karnataka and on a non rainy day in south Interior Karnataka to control the pest.
- Undertake inter-cropping with **soyabean** and **pulses** of short duration to reduce **wooly aphid** incidence.
- Continue land preparation and sowing of **rabi jowar, wheat and maize**.

Andhra Pradesh

Rain occurred at a few places over Rayalaseema on 8th October and isolated over Coastal Andhra Pradesh from 5 to 7th October, from 9 to 11th October, over Telangana from 5 to 8th October, over Rayalaseema from 5 to 7th & 9th October. Mainly dry or dry weather prevailed elsewhere over the State.

Isolated rain or thundershowers are likely over Coastal AP and Rayalaseema. Mainly dry weather is likely to prevail over Telangana

Advisories

- There was no significant rainfall in the state during last week and rain / thundershowers likely to occur at isolated places over Coastal AP and Rayalaseema. Mainly dry weather is likely to prevail over Telangana. Under the circumstances, apply irrigation to **groundnut, chilly and tur** to bring the soil moisture to its field capacity.
- Conserve moisture in **maize** and **cotton** as the crops are now at maturity stage.
- Attack of **stem borer** is reported in **rice**. Spray Quinalfos @ 2.3 ml / liter of water to control the pest.

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

Assam

Light to moderate rain occurred at isolated places on 9th, 10th and 11th with isolated heavy falls on 10th and heavy to very heavy falls on 11th October over the State.

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

Advisories

- As there was no significant rainfall in the State except in **Golghat** and **Tinsukia** districts during last week and rain / thundershowers will occur at isolated places over the State for the next three days, apply irrigation to **arhar, black gram and green gram** to bring the soil moisture to its field capacity. Apply irrigation depending on the soil profile stored moisture in Golghat and Tinsukia as excess rainfall is received during last week.
- Maintain 3 – 5 cm water level in **Sali rice** field.
- Mild incidence of **aphids, jassids, flea beetle and leaf spot** in **black gram and green gram** is reported.
- Monitor Pod and apion borer in **arhar** and if crosses economic threshold level, spray Malathion 50 EC @ 1.5 ml per litre of water or Fenitrothion 50 E.C. @ 2ml per litre of water after current spells of rain.
- Monitor Aphids, Jassids, Flea beetles in **black gram and green gram** and if crosses economic threshold level, spray Malathion 50 EC @ 2ml per litre of water. For leaf spot, as soon as diseases appear, spray Blitox or Fitolan @ 1.5 gram per litre of water at an interval of 7 to 10 days. Alternatively Bavistin @ 1 gram per litre of water should be applied at an interval of 12 to 15 days.
- 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 to control the insect. If attack of Stem borer is noticed apply Monocrotophos 40 EC @ 1.5 ml per litre of water.

- Continue land preparation and sowing of **early winter vegetables**.

West Bengal

The South West Monsoon withdrew from the districts of Sub Himalayan West Bengal (SHWB) on 9th. Rain occurred at isolated places over the districts of Gangetic West Bengal (GWB) on 9th and 11th October. Weather remained dry elsewhere during rest period.

Rain / thunder showers will occur at isolated places over coastal West Bengal. Mainly dry weather is likely over rest of the State.

Advisories

- As there was no significant rainfall in the State except in Malda district during last week and rain / thundershowers will occur at isolated places over coastal West Bengal and mainly dry weather is likely over rest of the State for the next three days, apply irrigation to **sugarcane** and **groundnut** to bring the soil moisture to its field capacity to the crop. Apply irrigation depending on the soil profile stored moisture in Malda as excess rainfall is received during last week.
- Maintain 5 – 7 cm water in **aman rice** field.
- Continue harvesting of **green gram** and **aus rice** on bright sunny days.
- Field preparation for sowing of **lentil** and **gram** may be done. Use improved varieties like Mahamaya 1 and 2, Anuradha (39-2) etc. for **gram**.

Bihar

Rain occurred at a few places on 5th & 6th October. Rest days rain occurred at isolated places.

Mainly dry weather is likely over the State.

Advisories

- There was no significant rainfall except **Darbhanga** and **Muzaffarpur** districts during last week and mainly dry weather is likely over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in **vegetables**, and **maize** crops. Apply irrigation depending on the soil profile stored moisture in the above districts.
- Weeding and intercultural operations may done in rice and apply 25-30 kg / ha Nitrogen as top dressing.
- Continue field preparation and sowing of **rabi** crops with available residual moisture.

Jharkhand

Weather remained dry.

Mainly dry weather is likely over the State.

Advisories

- There was no significant rainfall during last week and mainly dry weather is likely over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in **vegetables**, **maize**, and **other** crops.
- Maintain 5-7cm of standing water in the **rice** field.
- Continue field preparation, sowing / transplanting of **tomato**, **cabbage**, **cauliflower**, **brinjal**, **chilli**, **potato** and **pea**.

Sikkim

Sky remained generally cloudy during the period. Very light rain occurred at a few places on 11th October over East Sikkim. Rainfall was scanty during the period.

Mainly dry weather is likely to occur over the State.

Advisories

- As there was no significant rainfall in the state during last week and dry weather is likely to prevail over the State for next three days, apply required irrigation to **rice** and **vegetables** to bring the soil moisture to its field capacity.
- Continue intercultural operations, application of fertilizers and pesticides in **orange**, **vegetables** and **ginger**.
- If **caterpillar infestation** is seen in **large cardamom**, it may be handpicked and destroyed. Rouging of **Chirkey** and **foorkey** affected plants may be done at regular intervals and destroyed by burning.
- Maintain water level of 3-5 cm in **rice** field.
- Monitor **orange** for **trunk borer** and plug the holes in case of damage. Also monitor orange for **fruit fly**. Keep bait made of 20 ml Malathion and 200 g molasses or gur in 2 litres of water to control **fruit fly** and prevent fruit drop.

Arunachal Pradesh

Sky remained mainly cloudy on 10th and 11th October and weather remained mainly dry on 9th October over the State. Rain / thundershower occurred at a few places on 11th October and one or two places on 10th October.

Rain / thundershower are likely to occur at isolated places over the State.

Advisories

- There was no significant rain except **Lohit** and **Tirap** districts and rain / thundershowers are likely to occur at isolated places in the State for the next three days. Under these conditions, apply irrigation to bring the soil moisture to field capacity to new crop of **ginger**. Apply irrigation depending on the soil profile stored moisture in the above mentioned districts.
- Drain out the water 15 days before harvesting from **rice** field and continue harvesting of matured crop.
- Field preparation and sowing of **winter vegetables**, **potato**, **wheat** and **mustard** may be continued.

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

Gujarat

SW monsoon was withdrawn from entire Gujarat State on 9th October.

Weather will be mainly dry over the State.

Advisories

- As there was no significant rain in the State except Dangs district during last week and mainly dry weather is likely over the State for next three days, apply irrigation to **sugarcane**, **pre-monsoon irrigated cotton**, **Kharif cotton** and **castor** to bring the soil moisture to field capacity. Apply irrigation depending on the soil profile stored moisture in Dangs districts.
- Maintain 3 – 5 cm water in **rice** fields.
- There is possibility of attack of **stem borer** in **kharif rice**. Monitor the crop for stem borer and if crosses economic threshold level, apply carbofuran 3 % @ 25 kg / ha or cartap hydrochloride 4% @ 20 kg / ha for the control of the insect.
- If population of sucking pests like **Aphid**, **Jassids**, **Thrips** & **Heliothis** of **cotton** crosses economic threshold level, release chrysoperla eggs or first instar larvae @ 10000 / ha twice at the interval of 15 days.
- For monitoring & management the **boll worms** & **heliiothis** of **cotton** hang 5 pheromance traps in one ha. Change the lures at an interval of 15 days. Destroy trapped moths every day. If boll worm population crosses economic threshold level, release parasite trichogramma @ 1.5 lakhs / ha 5 to 6 times as per requirement depending upon infestation found in field.

- If **white fly** population crosses economic threshold level in **cotton**, spray Neem oil @ 4 liter / ha. For control of **top shoot borer** of **cotton** spray Endosulphan 35 EC @ 2 liter / ha if population crosses economic threshold level.
- Monitor top shoot borer attack in **sugarcane** and collect and destroy dead hearts and egg masses. Release *Tricogamma japonicum* @ 1.0 to 1.5 lakh / ha. If attack crosses economic threshold level, apply carbofuran G @ 33 kg / ha or phorate 10 G @ 10 kg / ha in soil.

Chhattisgarh

Monsoon has withdrawn from north Chhattisgarh.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall in all the districts during last week and mainly dry weather is likely over the State for next three days, apply irrigation to **Sugarcane, green gram, black gram, red gram, soybean, groundnut** and **vegetables** to bring the soil to field capacity.
- Maintain 5 – 7 cm water in **rice** field.
- Continue preparation of nursery for vegetables like **tomato, chilly, brinjal** etc. on the bed of 6-8 inch height.
- Monitor the crop for the attack of **stem borer** in **rice**. Monitor the crops and if crosses economic threshold level, thimet 10 G @ 10 kg / ha or carbofuran 3 G @ 25 kg / ha may be applied.

Maharashtra

Rainfall occurred at most places in South Konkan, at many places in South Madhya Maharashtra, at a few places in North Konkan & at isolated places in North Madhya Maharashtra & Marathwada. Mainly dry weather prevailed over Vidarbha.

Rain/thundershowers are likely at a few places over Konkan & Goa; at isolated places over Madhya Maharashtra and mainly dry weather is likely over Marathawada and Vidarbha.

Advisories

- As rain/thundershowers are likely at isolated places over Madhya Maharashtra and mainly dry weather is likely over Marathawada and Vidarbha for next three days, apply irrigation to **Sugarcane, Jowar, soybean, kharif cotton, tur** and **Cotton (irrigated)** crops.
- Mild incidence of **White Woolly Aphids** in Aurangabad, Latur, Kohlapur and Pune and **Pyrilla, White fly** and **Mealy bug** in Nashik in sugarcane, **Army worm, Aphids, Brown Jassids, Rice hispa, Blue beetle** in Kolhapur division and **Sap sucking insects, Aphids and Jassids** in Latur and Hispa, **Midge fly** in Nagpur division in **Kharif** rice, **Stem borer, aphids and jassids** in Kohlapur div. and **shoot fly** in Amraoti div. in jowar, **Aphids and Jassids** in Aurangabad and Vidarbha div, **Sap sucking insects** in Aurangabad and Latur div. and **Boll worm** in Latur div. in irrigated cotton and **Aphids and Jassids** in Aurangabad and Vidarbha division in **kharif** cotton, is reported.
- Monitor **White Woolly Aphids** in **sugarcane** and if crosses economic threshold level, release 2500 eggs or larvae of *Krisoperla Karnea* or *Konobatra Aphidivora* parasite on the leaves or spray Endosulphan @ 500 ml plus Metasistox 1000 ml and 500 ml sticker or 1 kg detergent powder mixed in 500 liter water / ha.
- Monitor infested plants by Hispa in **rice** & if exceeds economic threshold level, spray Copper oxychloride 50 % @ 1250 gm or Zyneb 75 % @ 1000 gm in 500 liter water.
- Monitor infested plants by Midge fly in **rice** & if exceeds economic threshold level, 10 % granular Phorate / ha may be mixed in the soil.
- Monitor the stem borer, aphids and jassids population in **jowar** and if crosses economic threshold level, spray 5 % Neem seed extract or 35 % endosulphon @ 14 ml or 30 % dimethoate @ 10 ml plus 10 ml sticker in 10 liter water.
- Monitor Shoot fly in **jowar** & if exceeds economic threshold level, spray 35 % Endosulphon @ 350 ml /

ha in 250 liter water.

- Monitor aphids and jassids population in **cotton** and if crosses economic threshold level, spray methyl dimeton 25EC @ 320 ml or dimethoate 30EC @ 500 ml / ha in 500 liter water.
- Monitor Boll worm in **cotton** and if exceeds economic threshold level, spray 36 % Monocrotophos WSC or 35 % Endosulphan WSC @ 850 ml / ha in 500 liter water.
- Field preparation and sowing of *rabi* maize, sunflower, safflower, wheat, gram and jowar may be started.
- Select varieties like Hybrid varieties CSHR-13 (R), 15 (R), & 19 (R) and improved varieties Maldandi, Fule-yashoda & Mauli for *rabi* jowar, Girana, Sharada & Bhima for **Safflower**, HD 2189, 2278, 2380, DWR 162, MACS 2496, Tryambak, Godawari for **irrigated wheat** and Bansi N-59, sarbati N-8223, N-5749, NI5439 & Panchwati for **non irrigated wheat**, Vikas, Fule-G 12 (70 kg seeds), Vishwas, Vijay (85 kg seeds) & Vishal, Virat (100 kg seeds) / ha for **gram**, early varieties like Deccan Hybrid 1, 109, Pusa Sankar 1 & 2, Panchganga, Medium varieties like DMH-107, KH-9491, Manjiri, Karvir & Late varieties like Ganga 11, Deccan 105, Dhaval, African toll for *rabi* maize and Morden, SS-56, BSS-11, APSH-11 *rabi* sunflower.

Madhya Pradesh

South West Monsoon has withdrawn further from remaining parts of the State by 9th October. Dry weather prevailed over the State.

Mainly dry weather is likely over the State.

Advisories

- There was no significant rainfall during last week and mainly dry weather is likely over the State for the next three days. Under the circumstance, apply irrigation to **sugarcane** crop to bring the soil moisture to field capacity. Maintain 3-5 cm water level in *Kharif* rice field. To protect *Kharif* rice crop from **Blastdisease** spray Mancozeb @ 1 kg per hectare.
- Conserve moisture wherever the *kharif* crops are at maturity stage.
- Continue harvesting of matured crops.

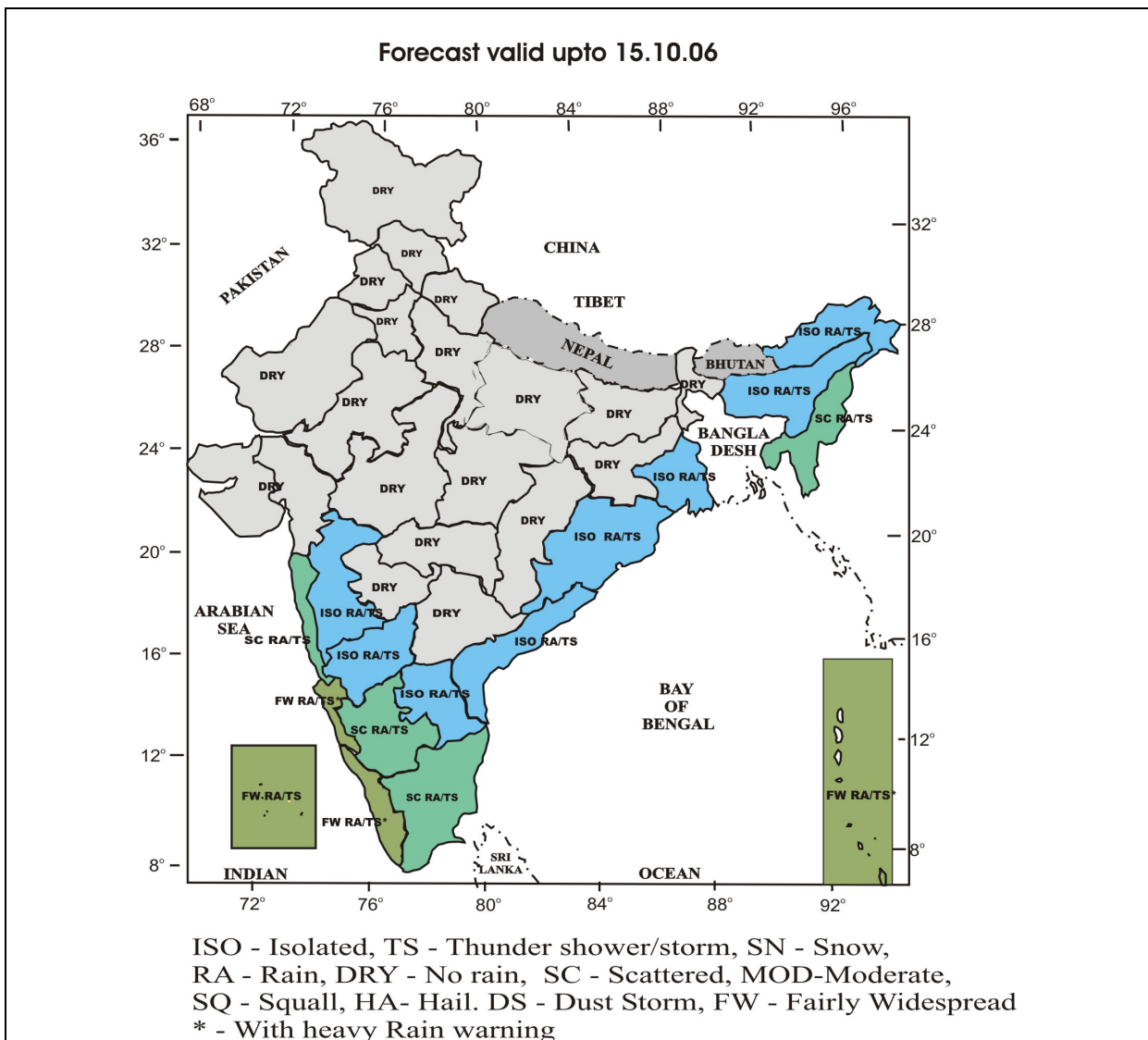
Orissa

Rainfall occurred at isolated places over the State on 9th & 11th October, and weather was mainly dry on 10th October.

Isolated rain / thundershowers are likely over the State.

Advisories

- There was no significant rainfall in the State during last week and rain / thundershowers are likely to occur at isolated places over the State for next 3 days. Under the circumstances, apply irrigation to **vegetables, sugarcane, ground nut and pulses** crops.
- Maintain 5 – 7 cm water in the rice field.
- There are reports of **arhar** crop (at flowering stage) infested by **blister beetle**. Collect the adults and kill them by kerosine water or detergent solution.
- To manage the **Epilachua beetle** in **Brinjal** spray Carbyl @ 4gm / litre of water. To manage the **Bacterial Wilt** in **vegetables** spray Streptocycline @ 1gm / litre of water.
- To manage the **Mealy bug, scale insects, white fly** and **inter node** borer in **sugarcane** spray Endosulfan / Monocrotophos / Malathion @ 2 ml. per litre of water.
- Field preparation and sowing of *rabi* groundnut may be done.



Salient weather features for the week ending 11/10/06

WITHDRAWAL OF SOUTHWEST MONSOON

The southwest monsoon further withdrew on 9th from the remaining parts of East Uttar Pradesh, Madhya Pradesh & Gujarat, entire Bihar & Sub-Himalayan West Bengal & Sikkim, most parts of Jharkhand & northern parts of Gangetic West Bengal, Chhattisgarh & Maharashtra. The withdrawal line passed through Cooch Behar, Bankura, Durg, Akola and Dahanu.

METEOROLOGICAL ANALYSIS

- Last week's upper air cyclonic circulation extending upto mid-tropospheric levels over south Konkan & Goa and neighbourhood persisted upto 5th and became less marked thereafter.
- A north-south trough extending from northeast to southwest Bay of Bengal with embedded upper air cyclonic circulation one over northeast Bay of Bengal and another over adjoining west central Bay of

Bengal was seen on 7th. The cyclonic circulation over west central Bay of Bengal persisted till 11th, however under the influence of the other upper air cyclonic circulation, a low pressure area formed over east-central & adjoining northeast Bay of Bengal on 9th which persisted over there upto 11th.

- An off shore trough at sea level extending from south Konkan coast to Kerala coast was seen on many days of the week.

RAINFALL

Under the influence of the above systems:

- Fairly widespread rainfall occurred over Konkan & Goa, Coastal Karnataka, Kerala and Andaman & Nicobar Islands on many days of the week with isolated heavy to very heavy falls on some days.
- Fairly widespread rainfall occurred over northeastern states, West Bengal & Sikkim and Orissa in the beginning of the week which decreased subsequently and isolated rainfall was experienced on the remaining days of the week.
- Scattered light to moderate rainfall continued over extreme south peninsula throughout the week.
- Isolated light rainfall occurred over Bihar, Chhattisgarh, Coastal Andhra Pradesh, Marathwada and Madhya Maharashtra on some days of the week.
- Weather remained mainly dry over the rest of the country.

RAINFALL DURING THE WEEK ENDING ON 11TH OCTOBER, 2006

Rainfall was excess/normal in 6, deficient/scanty in 24 and no rain in 6 out of 36 meteorological sub-divisions (Actual: 11.2 mm, Normal: 23.7 mm and Departure: -53%).

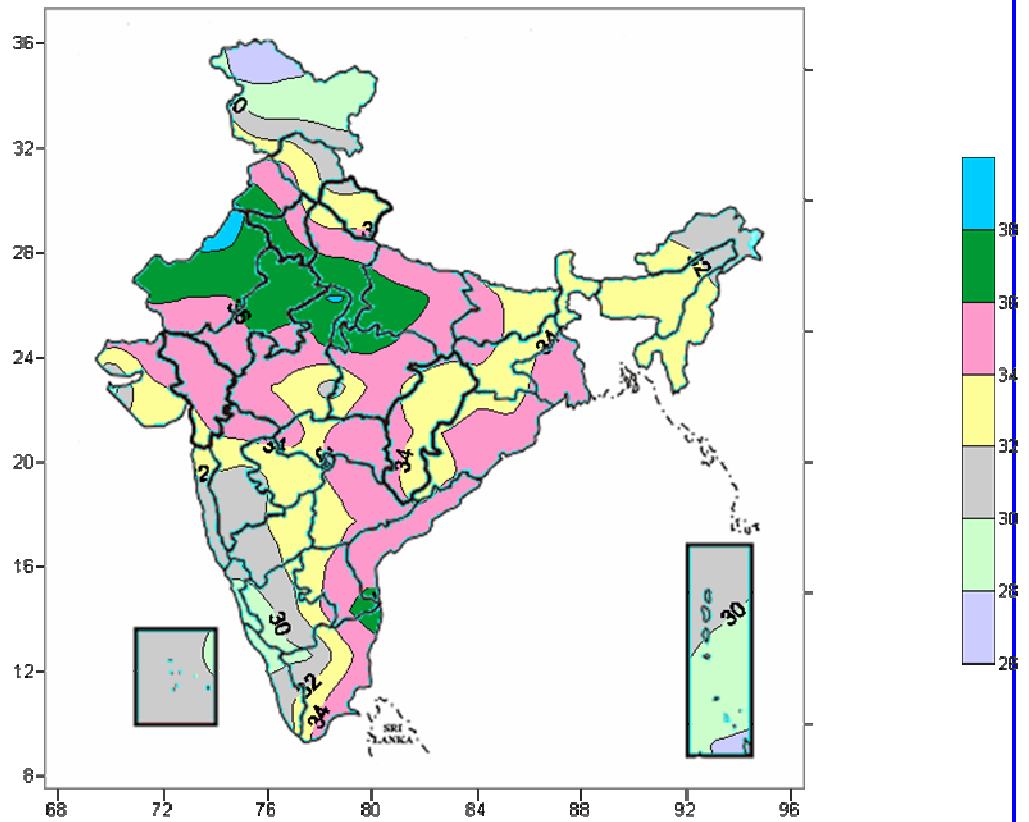
CUMULATIVE SEASONAL RAINFALL (1ST OCTOBER TO 11TH OCTOBER, 2006)

Rainfall was excess/normal in 9, deficient/scanty in 24 and no rain in 3 out of 36 meteorological sub-divisions (Actual: 21.4 mm, Normal: 40.2 mm and Departure: -47%).

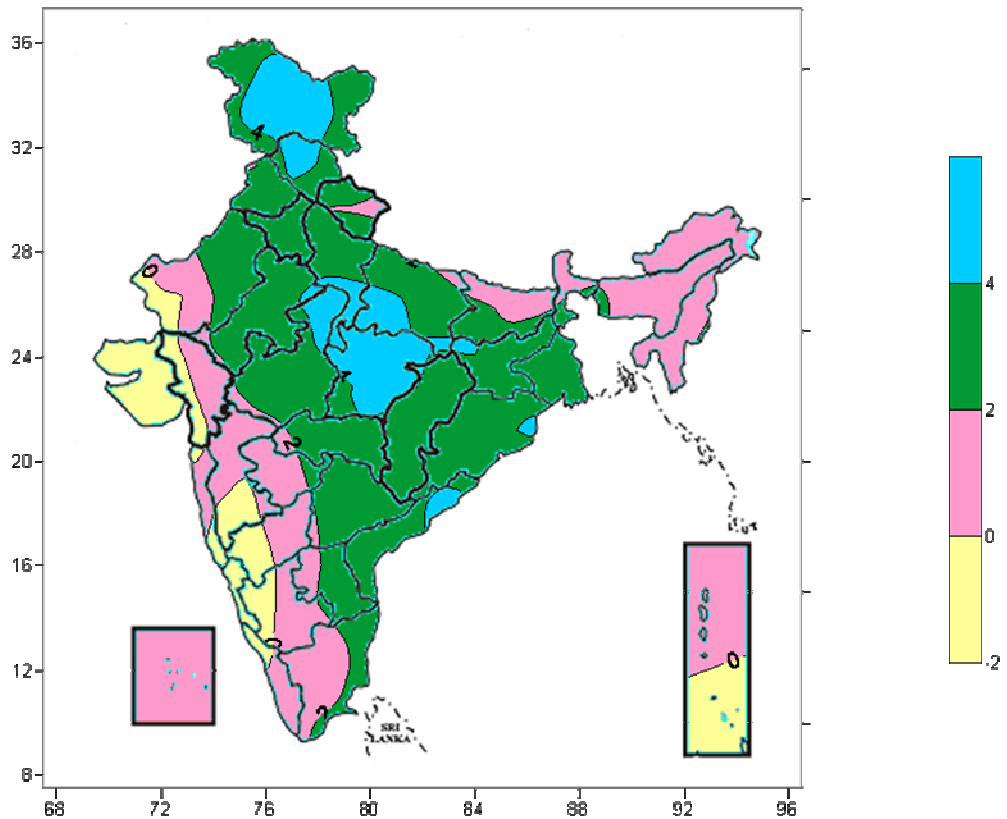
OUTLOOK FOR THE WEEK ENDING ON 18TH OCTOBER, 2006.

- Southwest monsoon is likely to withdraw from northeastern States and remaining parts of east & central India and Maharashtra.
- Scattered rainfall activity likely to continue over extreme south peninsula with possibility to increase over Tamil Nadu & Pondicherry, Kerala and Lakshadweep.

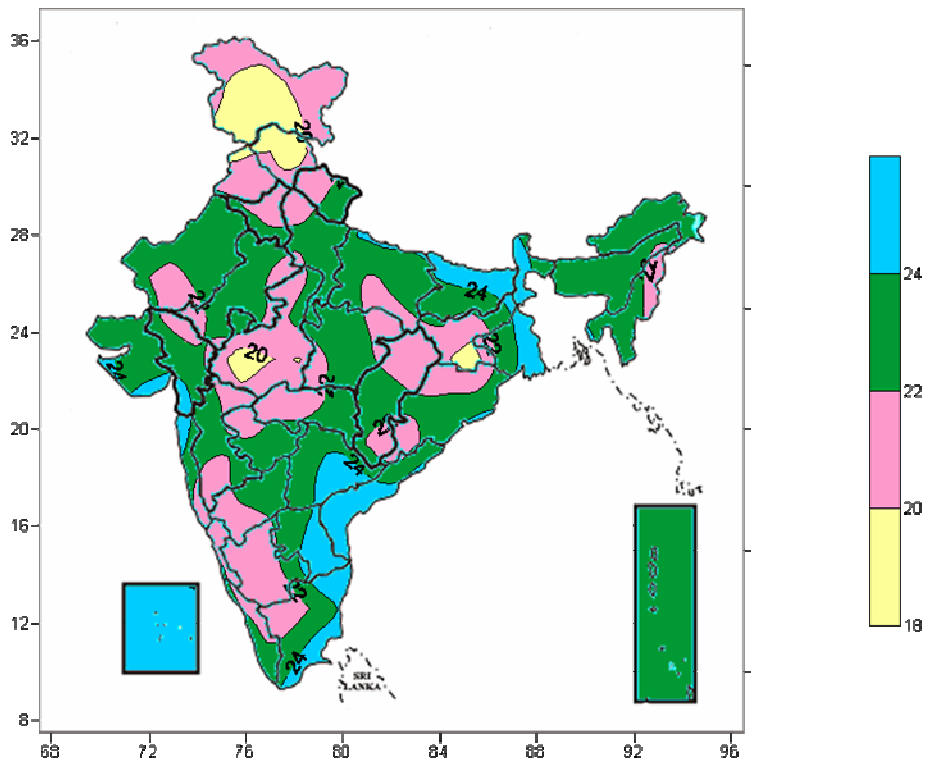
Actual mean maximum Temperature (°C) in India for the week ending 11.10.06



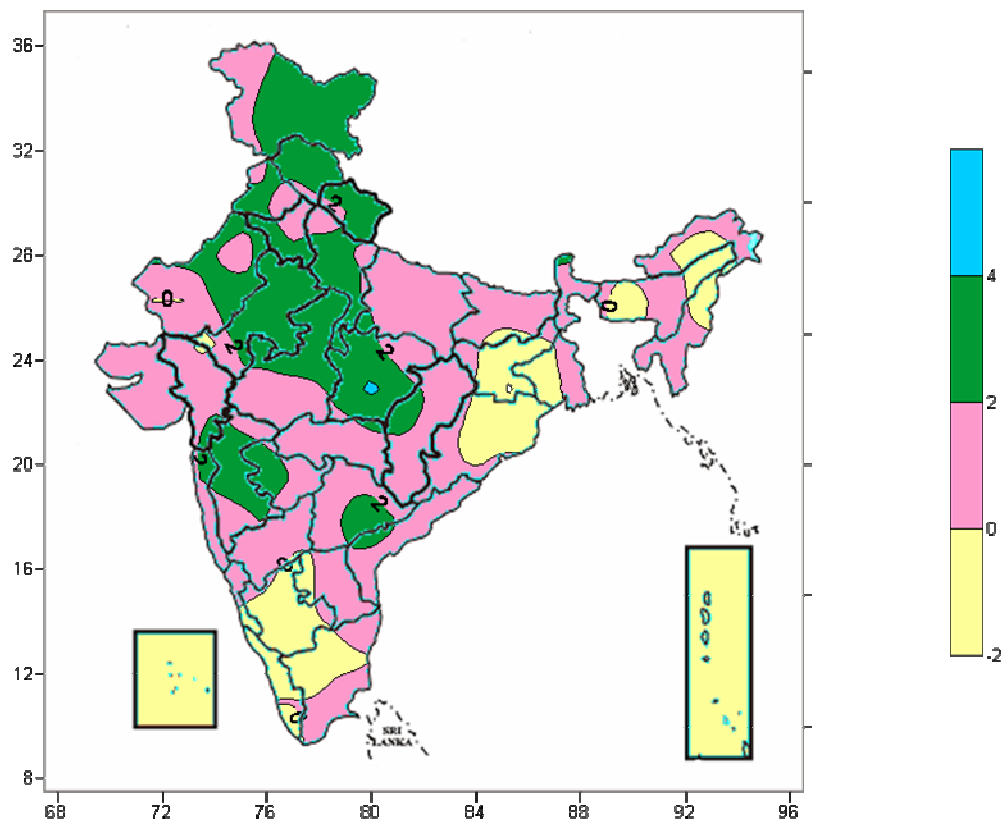
Maximum Temperature (°C) Anomaly In India for the week ending 11.10.06



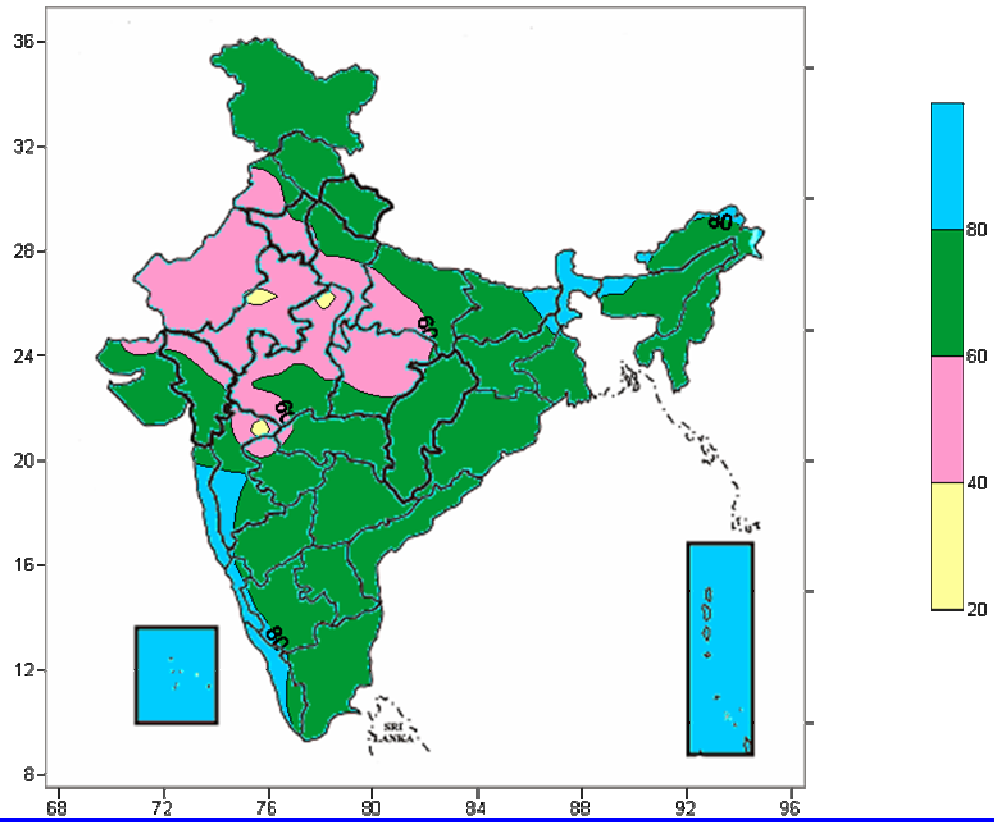
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 11.10.06



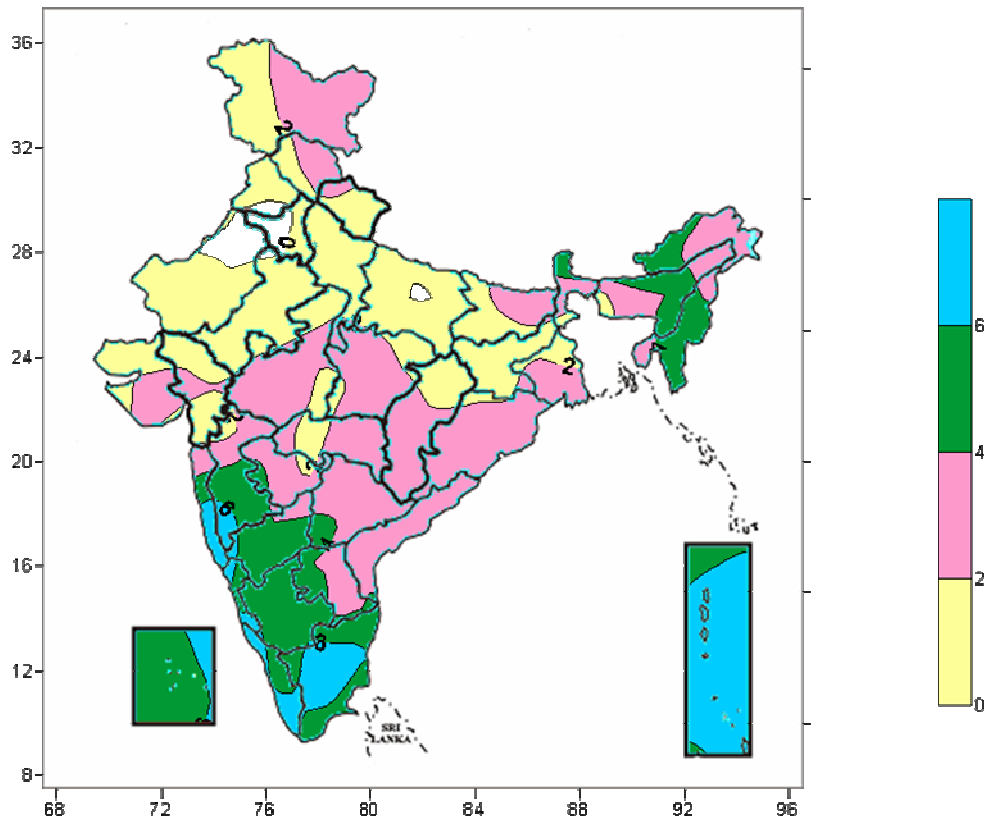
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 11.10.06



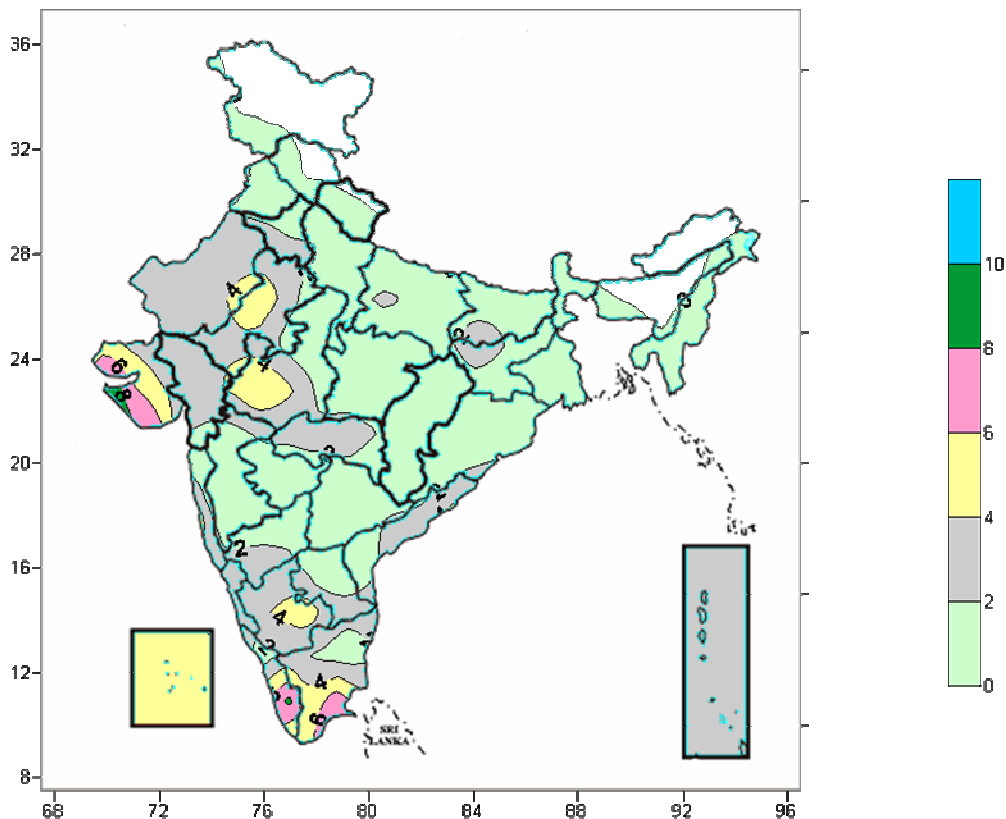
Relative humidity (%) over India for the week ending 11.10.06



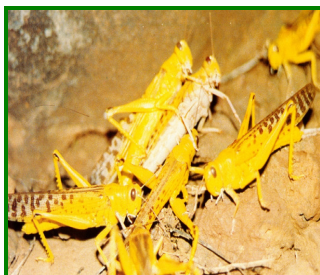
Cloud amount (okta) over India for the week ending 11.10.06



Wind speed (knots) over India for the week ending 11.10.06



Desert Locust Forecasting



Rainfall (mm)							
Station Name	5.10.06	6.10.06	7.10.06	8.10.06	9.10.06	10.10.06	11.10.06
Amritsar	NIL						
Barmer							
Sriganganagar							
Jaisalmer							
Kota							
Deesa							
Churu							

Temperature (degree celcius)							
Station Name	5.10.06	6.10.06	7.10.06	8.10.06	9.10.06	10.10.06	11.10.06
Amritsar	27.0	26.5	27.0	27.0	28.0	27.5	26.5
Barmer	31.0	30.0	28.5	-	-	27.5	28.0
Sriganganagar	31.5	32.0	32.5	31.0	-	29.5	29.5
Jaisalmer	31.5	31.0	30.5	30.0	29.0	-	28.5
Kota	33.5	33.0	31.5	-	-	-	31.5
Deesa	32.5	31.0	30.5	-	29.5	28.5	28.5
Churu	-	-	-	-	-	-	-

Wind

Station Name	5.10.06		6.10.06		7.10.06		8.10.06		9.10.06		10.10.06		11.10.06	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	07	SW	04	E	-	-	-	-	12	SW	-	-	-	-
Barmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sriganga nagar	20	W	15	W	-	-	-	-	-	-	17	W	14	W
Jaisalmer	10	SW	15	WNW	-	-	-	-	11	S	07	SSW	08	SSW
Kota	13	NW	-	-	-	-	-	-	-	-	-	-	-	-
Deesa	-	-	-	-	-	-	-	-	06	SW	-	-	07	W
Churu	25	W	17	W	-	-	-	-	08	W	-	-	15	NW

Although the monsoon rains have finished along the **Indo-Pakistan** border and only scattered adults are present, limited breeding could still occur in Rajasthan and the adjoining areas as heavy rains and flooding occurred last month along the **Indo-Pakistan** border (Rajasthan, **India** and Tharparkar, **Pakistan**).

Farmers are advised to monitor locust population and carry out anti locust operations, if the population of the pest crosses Economic Threshold Level (ETL).

CROP – STATE – STAGE

Delhi

Toria	Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot, and turnip)	Arhar	Rice	Green gram, black gram
Sowing	Nursery sowing/ Transplanting	Maturity / harvesting	Grain formation / maturity	Maturity/harvesting
Bajra	Fodder (Mixed maize , Lobia)	Maize	Early sown vegetable crops	Mustard
Grain formation / maturity	Vegetative	Maturity	Vegetative/ flowering/ fruiting/ harvesting	Sowing
Berseem				
Sowing				

Haryana

Horticultural crop	New Horticultural crop	Paddy	Maize	Cotton
Fruiting	Planting	Grain maturity / early harvesting	Cob maturity / harvesting	Boll development / maturity
Bajra	Groundnut	Kharif pulses	Sugarcane	Gram / Wheat
Ear head harvesting	Pod maturity / early harvesting	Pod harvesting	Vegetative	Sowing

Himachal Pradesh

Rice	Maize	Apple	Summer vegetables (Tomato, brinjal, ladies finger)	Fodder crops
Grain maturity / Harvesting	cob maturity / harvesting	Harvesting	Vegetative/flowering / fruiting / harvesting	Vegetative
Moong / Mash	Fruit plants	Potato	Summer vegetables Radish, Turnip, Carrot	Summer vegetables (Cauliflower, Cabbage) /Arclpe peas
Harvesting	New growth	Tuber maturity / harvesting	Sowing	Preparation of nursery in low hills & Transplanting in

				high hills / Sowing
Jammu & Kashmir				
Vegetables crops	Rice	Maize	Kharif crops	Horticultural crops
Harvesting	Grain development	Maturity / harvesting	Grain maturity	Vegetative
Fodder crops (Maize, Bajra, MP Chari)	Flower crops	Toria	Brown Sarson	Lentil
Vegetative/cutting	Seed bed preparation for sowing	Sowing	Sowing	Sowing
Wheat				
Sowing				
Punjab				
Sugarcane	Paddy	Maize	Cotton	Kharif pulses
Vegetative	Grain maturity / early harvesting	Cob maturity / early harvesting	Boll development / maturity	Pod harvesting
Groundnut				
Pod maturity / early harvesting				
Rajasthan				
Cotton	Groundnut	Bajra	Pulses	Soyabean
Boll maturity	Pod maturity	Harvesting	Pod maturity / harvesting	Pod maturity
Maize	Mustard			
Harvesting	Land preparation / sowing			
Uttar Pradesh				
Kharif Pulses (Urad & Moong)	Sugarcane	Kharif Vegetables	Winter Vegetables	
Pod development / maturity / harvesting	Cane formation / maturity / harvesting	Harvesting	Transplanting	
Mango	Kharif Maize, Jowar, Bajra	Kharif rice	Toria	Kharif Oilseeds
Harvesting	Grain development / maturity / harvesting	Grain formation / maturity	Sowing	Seed formation / maturity / harvesting
New Mango	Toria			
Active growth	Seedling			
Uttaranchal				
Rice	Mango/Litchi	Apple	Sugarcane	Toria
Dough / maturity	Seedling	Maturity	Grand growth	Sowing
	Millets (Ragi)	Pea & Potato		
	Maturity	Sowing		
Assam				
Maize	Sugarcane	Early winter vegetables	Vegetables	Balck gram and Green gram
Harvesting	Cane maturity / harvesting	sowing	Land preparation / sowing	Vegetative
Sali rice	Arhar			
Vegetative / tillering	Vegetative / flowering			
Arunachal Pradesh				
Wet seeded rice	Ginger	Potato	Wheat and Mustard	Winter vegetables
Maturity / harvesting	Vegetative	Land preparation / sowing	Land preparation / sowing	Nursery sowing / transplanting
Bihar				
Fruits and Vegetables	Winter vegetables	Rice	Maize	Rabi Maize
Vegetative	Sowing / transplanting	Flowering / grain formation	Cob formation	Field preparation / sowing

Pulses and Oil seeds	Potato	Rabi Oil seeds (Torina, Sarson, Linseed)	Rabi Pulses (Lentil, Gram, Pea)	
Seed maturity	Field preparation / sowing	Field preparation / sowing	Field preparation / sowing	

Jharkhand

Rice	Upland crops (groundnut, urad)	Finger millet	Maize
Grain formation	Flowering / pod formation / maturity	grain formation / maturity	Cob formation / maturity
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)	Early planted kharif vegetables	Timely sown Arhar	Pea & Tomato
Transplanting	Early vegetative / vegetative	Maturity / harvesting	Sowing

Sikkim

Orange	Rice	Large Cardamom	Rabi vegetables	Ginger
Fruit harvesting	Grain formation	Harvesting	Transplanting	Harvesting

West Bengal

Aus rice	Sugarcane	Jute	Green Gram	Aman rice
Harvesting	Vegetative	Harvesting	Pod maturity / harvesting	Panicle initiation / flowering / grain formation
Groundnut	Lentil	Gram		
Pod formation	Field preparation / sowing	Field preparation / sowing		

Chattisgarh

Chilly, Brinjal, Ladies finger, Beans, Bottle gourd	Niger, Kulthi	Sugarcane	Kharif rice	Soybean
Vegetative / flowering / fruiting / harvesting	sowing	Vegetative	panicle initiation / flowering / grain formation	Pod formation / maturity
Blackgram / Greengram	Groundnut	Red Gram	Tomato, chilli, brinjal	
Pod formation / maturity	Pod formation	Pod formation / maturity	Nursery preparation / transplanting	

Gujarat

Kharif Maize	Pre-monsoon irrigated Cotton	Kharif groundnut	Early Sown Rice	Sugarcane
Cob maturity / harvesting	Boll formation / maturity	Pod maturity / harvesting	Early tillering/tillering	Cane development
Kharif Cotton	Castor	Kharif bajra	Kharif Rice	Mustard
Vegetative/ square / boll formation	Vegetative	Grin maturity / harvesting	Panicle initiation / flowering / grain formation	Land preparation / sowing

Maharashtra

Kharif Groundnut (Madhya Maharashtra, Marathwada & Vidarbha)	Tur (Madhya Maharashtra, Marathwada & Vidarbha)	Irrigated Cotton	Sugarcane (Seasonal) (Madhya Maharashtra, Marthwada and Vidarbha)	Bajra (Madhya Maharashtra, Marthwada and Vidarbha)
Pod maturity / harvesting	Branching / flower bud formation	Active vegetative/ square formation / boll formation	Active vegetative / elongation	grain maturity/ harvesting
Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Soyabean (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif rice (Konkan)	Kharif rice (Madhya Maharashtra, Marathwada & Vidarbha)
Flowering / grain formation / grain maturity	Head maturity / harvesting	Pod maturity / harvesting Late sown crops are at pod formation stage	Panicle initiation / flowering (late varieties) Flowering / grain formation	Flag leaf initiation (in Vidarbha) Flowering / grain formation (in Madhya)

			(medium varieties) Grain formation / grain maturity (early maturing)	Maharashtra, Marathwada)
Moong (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Wheat (Madhya Maharashtra, Marathwada & Vidarbha)
Harvesting	Active vegetative / square formation	Field preparation / sowing	Field preparation / sowing	Field preparation / sowing
Rabi gram (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi maize (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Safflower (Madhya Maharashtra, Marathwada & Vidarbha)		
Field preparation / sowing	Field preparation / sowing	Field preparation / sowing		

Madhya Pradesh

Sugarcane	Moong	Kharif crops (Jowar, urad, tur)	Kharif Soyabean	Kharif rice
Vegetative	Harvesting	pod formation/ grain maturity / harvesting	Harvesting	Grain formation
Maize	Cotton			
Cob maturity	Boll maturity			

Orissa

Vegetables	Earlier sown vegetables	Early sown Groundnut	Rabi Groundnut	Sugarcane
Sowing / transplanting	Flowering / fruiting / harvesting	Early vegetative / vegetative/ pod development	Sowing	Vegetative / tillering
Kharif rice	Early transplanted rice	Pulses	Early sown Pulses	
Tillering / panicle initiation	Early tillering / tillering / panicle initiation	Sowing (Biri / Mung / Kulthi)	Vegetative / flowering / pod maturity	

Andhra Pradesh

Kharif rice	Kharif crops (Chillies/ Chillies/ Tur)	Maize	Groundnut	Cotton
Panicle initiation / flowering	Pod formation	Cob maturity	Pod formation	Boll maturity

Karnataka

Groundnut	Sugarcane (Ratoon crop & new crop)	Kharif crops (jowar, maize)	Kharif rice	Kharif cotton
Pod development / maturity	Grand growth	Maturity	Tillering / panicle initiation	Boll formation / maturity
Rabi jowar, wheat and maize	Rabi jowar, wheat and maize (Early sown)			
Land preparation and sowing	Germination / seedling			

Kerala

Rubber	Virippu Rice	Pepper		
Tapping	Harvesting	Berry development / maturity		

Tamil Nadu

Pulses (Black gram and green gram)	Millets	Summer irrigated cotton	Early & mid sugarcane	Groundnut
Pod maturity / early harvesting	Grain maturity / harvesting	Harvesting	Grand growth	Pod maturity / early harvesting
Rice (Kuruvai)	Rice (Samba)			
Flowering	Land preparation / sowing			

