



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

**Thursday, 2<sup>nd</sup> November, 2006**

(For the period 2<sup>nd</sup> to 6<sup>th</sup> November, 2006)

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

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

**Punjab**

Weather was mainly dry in the State during the period and expected to be remained dry in next 2-3 days. Day temperatures remained between 29-31<sup>o</sup>C which were near to normal range. Night temperatures were 14-16<sup>o</sup>C. They were slightly above normal in northern districts and normal rest parts of the State.

Mainly dry weather is likely over the State.

**Advisories**

- Weather was dry in the State during last week and dry weather is likely to prevail for the next three days. Under the circumstances, apply required irrigation to **sugarcane** to bring the soil moisture to its field capacity.
- This is proper time for sowing **wheat, gram** and **rabi oil seeds**. 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.
- Apply recommended dose of fertilizer at sowing time. Destroy the canes affected by **stem borer** & **gurdaspur borer** and to control **pyrilla** or **white fly** spray 600-800ml Malathion in 800 ml of water per acre.

**Haryana**

Weather was mainly dry in the State during the period and expected to be remained dry in next 2-3 days. Day temperatures remained between 29-31<sup>o</sup>C in western districts which were slightly below normal and around 30<sup>o</sup>C in eastern parts which were near normal. Night temperatures were 18-20<sup>o</sup>C in western parts which were appreciably above normal and around 15<sup>o</sup>C in eastern districts which were slightly above normal.

Mainly dry weather is likely over the State.

**Advisories**

- Weather was dry in the State during last week and dry weather is likely to prevail for the next three days. Under the circumstances, apply required irrigation to **sugarcane** to bring the soil moisture to its field capacity.
- This is proper time for sowing **wheat, gram** and **rabi oil seeds**. Use the certified seeds 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.

Weather likely to be mainly dry in all the divisions of the State.

**Advisories**

- Continue harvesting matured crops of **cotton, groundnut** and **soyabean**.

- This is proper time for sowing of **barley, mustard, gram and wheat**. Continue land preparation and sowing. Undertake seed treatment before sowing.
- Farmers are advised to monitor locust population and carry out anti locust operations, if the population of the pest crosses Economic Threshold Level (ETL).

### **Uttar Pradesh**

Weather was mainly dry in all divisions of the State.

Isolated rain / thundershowers are likely over the State.

#### **Advisories**

- There was no rainfall in the State during last week and isolated rain / thundershowers are likely over the State for the next three days. Under the circumstance apply irrigation to bring the soil moisture to its field capacity in standing crops.
- Continue weeding and hoeing, along with top dressing of nitrogen in **winter vegetables and toria**.
- Sowing of **rabi wheat, barley and fodder crops** may be done.
- Complete sowing of **rabi pulses and oilseed, mustard and rai**.
- Transplanting of winter vegetables **cauliflower, brinjal, chilli and tomato** may done.
- Harvesting of matured **rice, bajra, maize, jowar, sugarcane, pulses, groundnut and kharif vegetables** may be continued.

### **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 week 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.
- Continue land preparation and sowing of **Arcle peas** in the high hills, transplanting of **cauliflower and cabbage** and sowing of **wheat, gram, barley, radish, turnip and carrot**.
- Select varieties from VL 616, HS 277, PBW-343 for early sown **wheat**, HPW-89, HS-240, HPW-147, HPW-184 for timely sown and HPW-42, HS-295 for late sown **wheat**, Himachal Chana – 1; C-235; HPG-17 for **gram** and Vimal (HBL-113) Dolma; Sonu (HBL-87); Gopi (HBL-316); Harit HBL-276) for **barley**.

### **Uttaranchal**

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

Isolated rain / thundershowers are likely over the State.

#### **Advisories**

- There was no rainfall during last week and isolated rain / thundershowers are likely over the State for next three days. Under the circumstances, apply irrigation to **mango, litchi and sugarcane** to bring the soil moisture to its field capacity.
- Continue sowing of **wheat**.
- Continue harvesting of matured **rice and finger millet** crop.

### **Jammu & Kashmir**

Weather remained mainly dry over J & K State.

Weather will be mainly dry over the State.

#### **Advisories**

- Continue sowing of **carrot, beet root and turnip** for seed crop in Jammu division and sowing of crops like

methi , palak , coriander, raddish etc. in Kashmir division. Start nursery sowing for onion.

- 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 gobi sarson. Select GSL1 and DGS 1 for sowing in Kashmir division.

## Delhi

Weather remained dry.

Mainly dry weather is likely over the State.

## Advisories

- As there was no significant rainfall during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to early sown vegetable crops 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 land and perform sowing of Japanese White and Reshmi varieties of raddish and Pusa kanchan, 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, wheat and gram.
- Select varieties from Type I, Sangam, T.L. – 15 and Ludhiana Composite for toria, Pusa Bold, Pusa Barani, T-59 (Varuna) and Pusa Kalyani for mustard, HD-2329, HD-2009, WL-74, HD-3428, CPAN and PBW-215 for wheat and P-209, Pusa-408, Gaurav C-235 and K-851( Kabli chana ) for gram for sowing.

## Southern Region (AP, Tamilnadu, Karnataka and Kerala)

### Kerala

Northeast monsoon was active over the State on 30<sup>th</sup> October. Rain / thundershowers occurred at most places on 30<sup>th</sup> October, many places on 1<sup>st</sup> November and at a few places on 31<sup>st</sup> October.

Rain / thundershowers will occur at a few places over the State.

## Advisories

- There was excess rainfall in all the districts except in Palakkad during last week. Under the circumstance, postpone irrigation to the crops. Apply irrigation depending upon soil profile stored moisture in Palakkad district as there was normal rainfall during last week.
- 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 pollu beetle and quick wilt is reported in pepper. Spray Ekalux @ 2ml in one litre of water to control beetle. Spray and drench with 1% Bordeaux mixture to control wilt. Undertake these plant protection measures on a non rainy day.
- Pink disease is reported in rubber. Apply 1 % Bordeaux paste on a non rainy day to control the disease.
- Attack of rhinoceros beetle, red palm weevil insects and leaf rot disease is reported in coconut. Hook out the beetles from the affected palms and fill the leaf axils with sevidol 8 G @ 25 g and fine sand 200 gm on a non rainy day. Use Pheromone trap on a non rainy day for controlling red palm weevil. Remove the rotten parts from spear and two adjacent leaves of the affected palm and pour Contaf 5 EC @ 2 ml or Mancozeb @ 3 g in 300 ml water on a non rainy day for controlling leaf rot.
- Attack of bunchy top, leaf spot and pseudo stem weevil is reported in banana. Eradicate bunchy top affected plants to reduce the spread of the disease. Apply Phorate @ 25 g / pit before planting new crop to prevent further spread of the disease. Fill the leaf axils with Chlorophyriphos @ 2.5 ml / litre of water on a non rainy day to control pseudo stem weevil. Spray Bordeaux mixture @ 1% on a non rainy day to control leaf spot disease.

## Tamilnadu

Rainfall occurred at many places over North Tamilnadu and at a few places over South Tamilnadu on 30<sup>th</sup> October and 1<sup>st</sup> November and at a few places on 31<sup>st</sup> October.

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

### Advisories

- There was excess rainfall in the State during last week. Under the circumstance, postpone irrigation to **early / mid sugarcane**. Arrange for drainage facilities in case of excess rainfall.
- Continue nursery sowing / transplanting of **samba rice**.
- Continue intercultural operations, application of fertilizers and pesticides on a non rainy day.
- 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.
- Start land preparation and sowing of **millet, cotton, pulses and groundnut**.

## Karnataka

Rainfall occurred at a few places on 30<sup>th</sup> October and at isolated places on the remaining days over Coastal Karnataka. Over North Interior Karnataka, rainfall occurred at isolated places on 30<sup>th</sup> October and dry weather prevailed on the remaining days. Over South Interior Karnataka, rainfall occurred at isolated places on all the days.

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

### Advisories

- Conserve moisture in the field wherever the crops are at maturity stage.
- **Woolly aphid** incidence is reported at **Mysore, Mandya and Hassan** districts. Release predators like *Dipha* sp on a non rainy day to control the pest.
- Undertake inter-cropping with **soyabean and pulses** of short duration to reduce **woolly aphid** incidence.
- Continue land preparation and sowing of **rabi jowar, wheat and maize**.

## Andhra Pradesh

Northeast monsoon has been vigorous over South Coastal Andhra Pradesh from 28<sup>th</sup> October to 1<sup>st</sup> November, active over Rayalaseema on 28<sup>th</sup> October. Rain occurred at many places over North Coastal Andhra Pradesh from 28<sup>th</sup> to 31<sup>st</sup> October, over Telangana on 1<sup>st</sup> November and at a few places over Coastal Andhra Pradesh on 1<sup>st</sup> November, over Telangana on 28<sup>th</sup> & 29<sup>th</sup> October and over Rayalaseema on 27<sup>th</sup>, 29<sup>th</sup> & 30<sup>th</sup> October. Isolated rain occurred elsewhere over the State during the week.

Rain or thundershowers are likely to occur at a few places over the State.

### Advisories

- There was excess rainfall in all the districts of the State during last week except in **Nizamabad in Telangana** and in **Cuddappah and Kurnool in Rayalaseema** subdivisions and rain / thundershowers likely to occur at a few places over the State. Under the circumstances, postpone irrigation to **groundnut, rice, cotton, chilly and tur**. Apply irrigation to bring the soil moisture to its field capacity in the above mentioned districts.
- Conserve moisture in the field wherever the crops are at maturity stage.
- Continue harvesting **maize and chillies** on bright sunny days.
- Attack of **brown plant hopper** is reported in **rice**. Spray Ethiphenfos @ 1.5 ml/liter of water on a non rainy day to control the pest. Avoid spraying wherever the crops are at maturity stage.

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

### Assam

Dry weather prevailed during the period.

Isolated Rain / thundershowers are likely to occur over the State.

#### Advisories

- There was no rainfall during last week and isolated rain/thundershowers are likely over the State for the next three days. Under these conditions, apply irrigation to **arhar**, **black gram** and **green gram** to bring the soil moisture to its field capacity.
- 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. Monitor **Aphids**, **Jassids**, **Flea beetles** in **black gram** and **green gram** and if crosses economic threshold level, spray Malathion 50 EC @ 2 ml 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 **winter vegetables**, **rapeseed**, **mustard**, **potato**, **wheat**, **pea** and **lentil**.

### West Bengal

Very light rain occurred at a few places on 31<sup>st</sup> October, very light to light rain at many places on 1<sup>st</sup> November over the districts of Gangetic West Bengal. Weather remained mainly dry elsewhere during the rest period.

Isolated rain / thundershowers are likely over the State.

#### Advisories

- As there was no significant rainfall in the State during last week and isolated rain / thundershowers are likely over the State for the next three days, apply irrigation to **sugarcane** to bring the soil moisture to its field capacity to the crop.
- Conserve soil moisture during maturity stage of the **groundnut** crop.
- Maintain 5 – 7 cm water in **aman rice** field.
- Field preparation for sowing of **boro rice**, **maize**, **lentil** and **gram** may be done.

### Bihar

Weather was mainly dry.

Rain / thundershowers are likely to occur at isolated places.

#### Advisories

- There was no rainfall during last week and isolated rain/thundershowers are likely over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in **vegetables**.
- Continue transplanting early **cauliflower**, **chillies**, **brinjal** from ready seedling and sow **winter vegetables**.
- Harvest the matured **maize** and **rice** crops.

- Continue field preparation and sowing of *rabi* maize, pulses, oilseeds and potato with available residual moisture.
- Weeding / thinning operation may be done in early sown *rabi* pulses / oilseed crops.

### **Jharkhand**

Rain / thundershowers occurred at a few places.

Rain or thundershower is likely to occur at isolated places.

#### **Advisories**

- There was no rainfall during last week and isolated rain / thundershowers are likely over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in *vegetables*.
- Maintain 3-5cm of standing water in the *rice* field where the crop is at *grain formation* stage.
- Continue field preparation, sowing / transplanting of *onion, tomato, cabbage, cauliflower, brinjal, chilli, potato and pea*.
- Sowing of *rabi* pulses, oilseeds, maize and wheat may be done.
- Weeding, intercultural operation, application of fertilizer may be done early planted *vegetable* crops.

### **Sikkim**

Sky remained partly cloudy during the period. No rain occurred during the period over East Sikkim.

Isolated rain / thunder showers are likely to occur over the State.

#### **Advisories**

- Rain / thundershowers are likely to occur at isolated places over the State. Under the circumstance, apply required irrigation to *vegetables* to bring the soil moisture to its field capacity.
- Continue harvesting of *large cardamom* and *rice*.
- Start sowing of *wheat, mustard* and transplanting of *rabi* vegetables.
- 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 to prevent fruit drop.

### **Arunachal Pradesh**

Sky remained partly cloudy to mainly clear over the State.

Isolated rain/thundershowers are likely over the State.

#### **Advisories**

- There was no rainfall during last week and isolated rain/thundershowers are likely over the State for the next three days. Under these conditions, apply irrigation to bring the soil moisture to its field capacity to new crop of *ginger* and *winter vegetables*.
- Field preparation and sowing of *potato, wheat* and *mustard* may be continued.
- Intercultural operation may be done as and when required in *ginger* and *winter vegetables*.

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

#### **Gujarat**

Weather remained dry during the period.

Weather will be mainly dry over the State.

#### **Advisories**

- As there was no significant rain in the State during last few weeks 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.

- Continue harvesting of *kharif* rice and *kharif* groundnut.
- For monitoring & management the boll worms & *Heliothis* 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.
- Prepare land and continue sowing of mustard crop. Sow G-Mustard-1, 2 & Varuna varieties with basic fertilizer dose 25 kg Nitrogen & 50 kg phosphorus. If there is deficiency of sulphur in soil, apply 40 kg. Sulphur / ha as a basal dose.

## Chhattisgarh

Isolated rain/thundershowers are likely over the State.

### Advisories

- As there was excess rainfall in Bilaspur, Jashpurnagar, Koriya and Surguja districts during last week, postpone irrigation to the crop in these districts.
- As there was no significant rainfall in remaining districts during last week and isolated rain / thundershowers are likely over the State for next three days, apply irrigation to sugarcane and vegetables to bring the soil moisture to field capacity.
- Maintain 5 – 7 cm water in rice field wherever crops are at grain formation stage.
- Continue preparation of land and sowing of gram, linseed, safflower, mustard and toria.
- Seeds of gram may be treated with 2 to 2.5 gm Thiram or Captan / kg seeds & 250 gm Rhizobium + PSB / 10 kg seeds before sowing.

## Maharashtra

Rain has occurred at isolated places in Konkan, Madhya Maharashtra, Marathwada & Vidarbha.

Isolated rain/thundershowers are likely to occur over the State.

### Advisories

- As rain/thundershowers are likely at isolated places over the State for next three days, apply irrigation to Sugarcane, *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 Latur 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 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.
- Continue field preparation and sowing of **rabi jowar, safflower, wheat, gram, rabi maize, sunflower** and planting of **sugarcane (pre-seasonal)** and **potato**.
- 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**, Morden, SS-56, BSS-11, APSH-11 for **rabi sunflower**, CO-740, CO-7219, CO-86032, CO-M-88121 for **sugarcane (Pre-seasonal)** and Kufari-Sinduri, Kufari-Lavkar, Kufari-Chandramukhi for **potato**.

### Madhya Pradesh

Rainfall occurred at isolated places in South East Madhya Pradesh on 30<sup>th</sup> October. Mainly dry / dry weather prevailed over the rest of the State on remaining period.

Isolated rain / thundershowers are likely over the State.

#### Advisories

- Conserve moisture in **tur** as the crop is now at maturity stage.
- Undertake land preparation and sowing of **rabi** crops like **wheat, gram** and **mustard**.
- Before sowing, undertake seed treatment with Carbendazim @ 1.5 grams and Thiram @ 1.5 grams or *Trichoderma viridi* @ 5grams for 1 kg of seed.

### Orissa

Rainfall occurred at isolated places over the State.

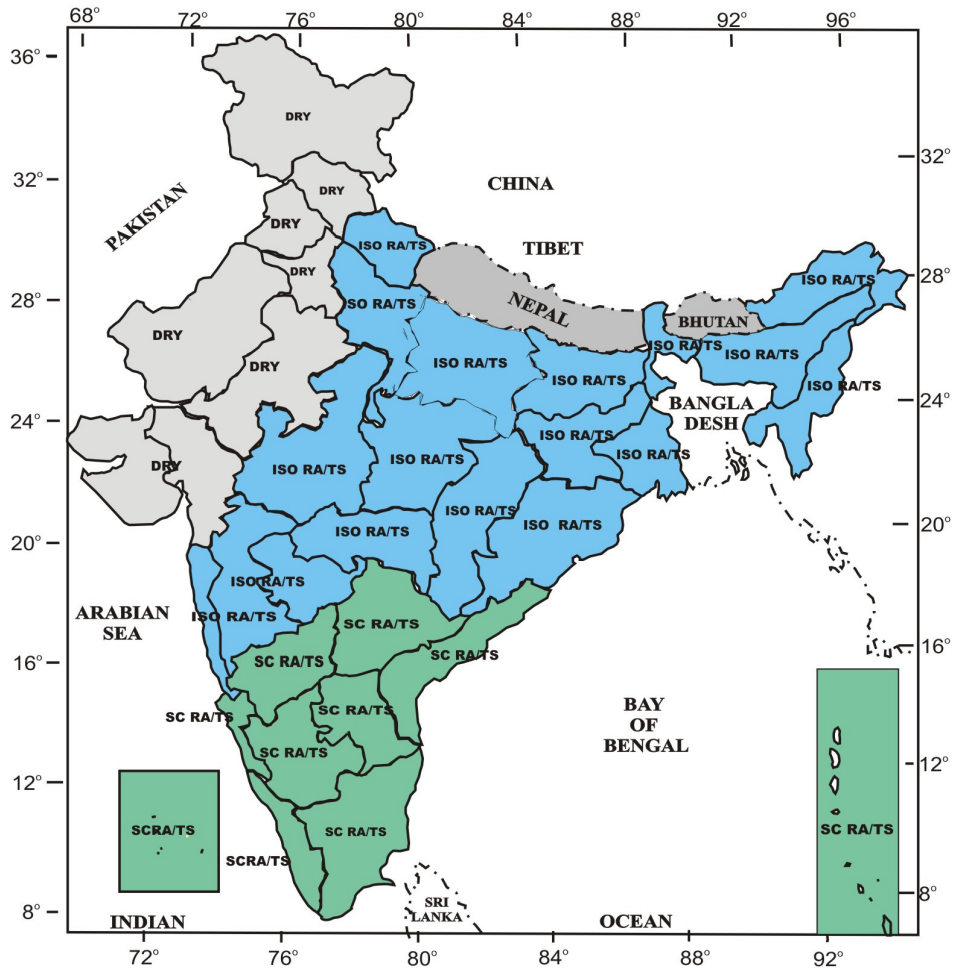
Isolated rain / thundershowers are likely to occur over the State.

#### 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 bring the soil moisture to its field capacity in **vegetables** and **sugarcane**.
- Continue transplanting of **vegetables**.
- Field preparation and sowing of **rabi groundnut, mung, kulthi, field pea** and **mustard** may be done.
- Harvest the matured **rice** crop.
- To manage the **Epilachna beetle** in **brinjal** spray Carbaryl @ 4gm / litre of water. To manage the **bacterial wilt** in **vegetables** spray Streptocycline @ 1gm / litre of water.
- There are reports of **arhar** crop infested by **blister beetle**. Collect the adults and kill them by kerosine water or detergent solution.
- 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.



## Forecast valid upto 05.11.06



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 01/11/06*

### METEOROLOGICAL ANALYSIS

- A low pressure area formed over southwest Bay of Bengal off Tamil Nadu coast on 28<sup>th</sup> morning. It concentrated into a depression and lay centred at 0830 hrs IST of 29<sup>th</sup> over west-central Bay near Lat 14.5°N and Long 80.5°E about 50 km east of Nellore. Moving northwards it further intensified into a deep depression and lay centred at 1430 hrs IST of same day near Lat 15.0°N and Long 80.5°E about 50 km east of Kavali. Remaining practically stationary it intensified into a Cyclonic storm “OGNI” at 1730 hrs IST of the same day. It lay centred at 0830 hrs IST of 30<sup>th</sup> near Lat 15.6°N and Long 80.3°E close to Ongole. Moving slowly further northward, it weakened into a deep depression and crossed south Andhra Pradesh coast between Ongole and Bapatla around 1300 hrs IST of 30<sup>th</sup>. It further weakened into a depression at 1430 hrs IST with its center at about 25 km southwest of

Bapatla. It lay as a well marked low pressure area at 1730 hrs IST of 30<sup>th</sup> and became less marked on 31<sup>st</sup>.

- Easterly waves affected peninsular region during the entire week.
- Last week's trough in westerly at 500 hPa level along 77°E to the north of 20°N persisted up to 31<sup>st</sup> and then moved away eastwards.

## **RAINFALL**

Under the influence of the above systems:

- Widespread/fairly widespread rainfall occurred over Tamil Nadu & Pondicherry, Coastal Andhra Pradesh, Kerala on most days of the week. Heavy to very heavy falls at a few places with isolated extremely heavy falls (25 cm or more) occurred over Coastal Andhra Pradesh during 30-31<sup>st</sup>. Scattered rainfall activity was also realized on remaining parts of the south peninsula during the week.
- Rain/thundershowers occurred at a few places over coastal Orissa during 29<sup>th</sup> October to 1<sup>st</sup> November. Isolated rain/thundershowers also occurred over Maharashtra, Madhya Pradesh, Chhattisgarh, interior Orissa, Jharkhand and Gangetic West Bengal and Tripura on 1<sup>st</sup> November.
- The weather remained mainly dry over the rest regions during the week.
- The night temperatures continued to be above normal over many parts of north & central India during the week.

## **RAINFALL DURING THE WEEK ENDING ON 1<sup>ST</sup> NOVEMBER, 2006**

Rainfall was excess/normal in 6 and deficient/scanty in 16 and no rain in 14 out of 36 meteorological sub-divisions (Actual: 15.4 mm, Normal: 9.7 mm and Departure: +59%).

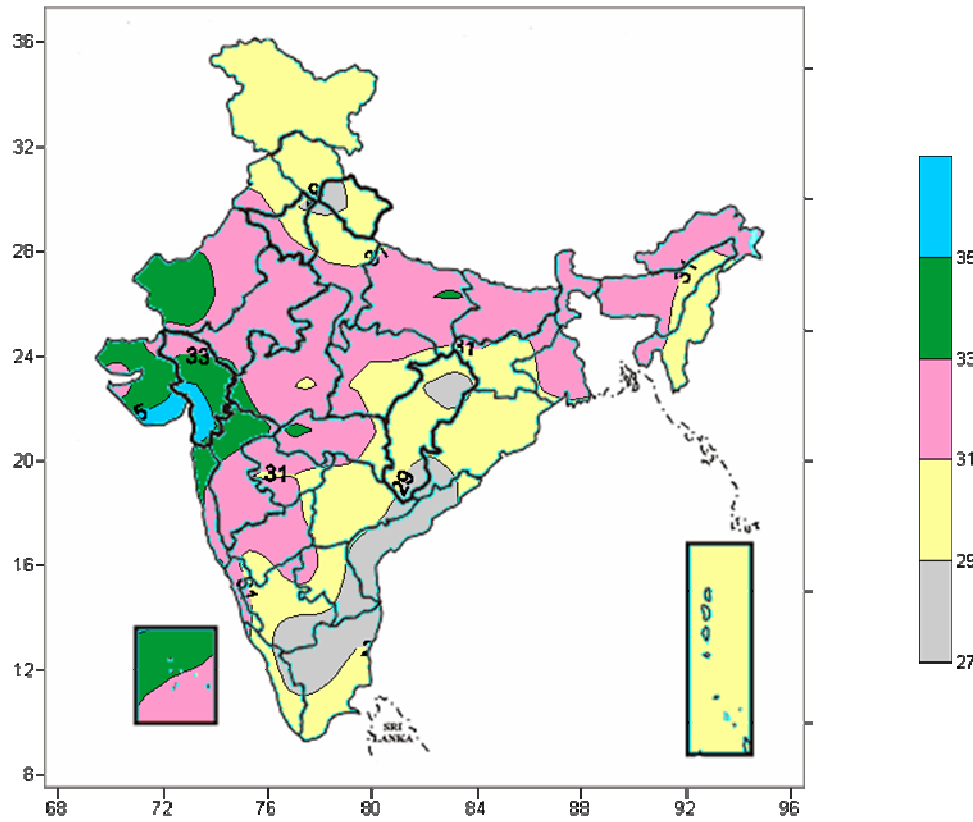
## **CUMULATIVE SEASONAL RAINFALL (1<sup>ST</sup> OCTOBER TO 1<sup>ST</sup> NOVEMBER, 2006)**

Rainfall was excess/normal in 7 and deficient/scanty in 29 out of 36 meteorological sub-divisions. (Actual: 52.7 mm, Normal: 79.7 mm and Departure: -34%).

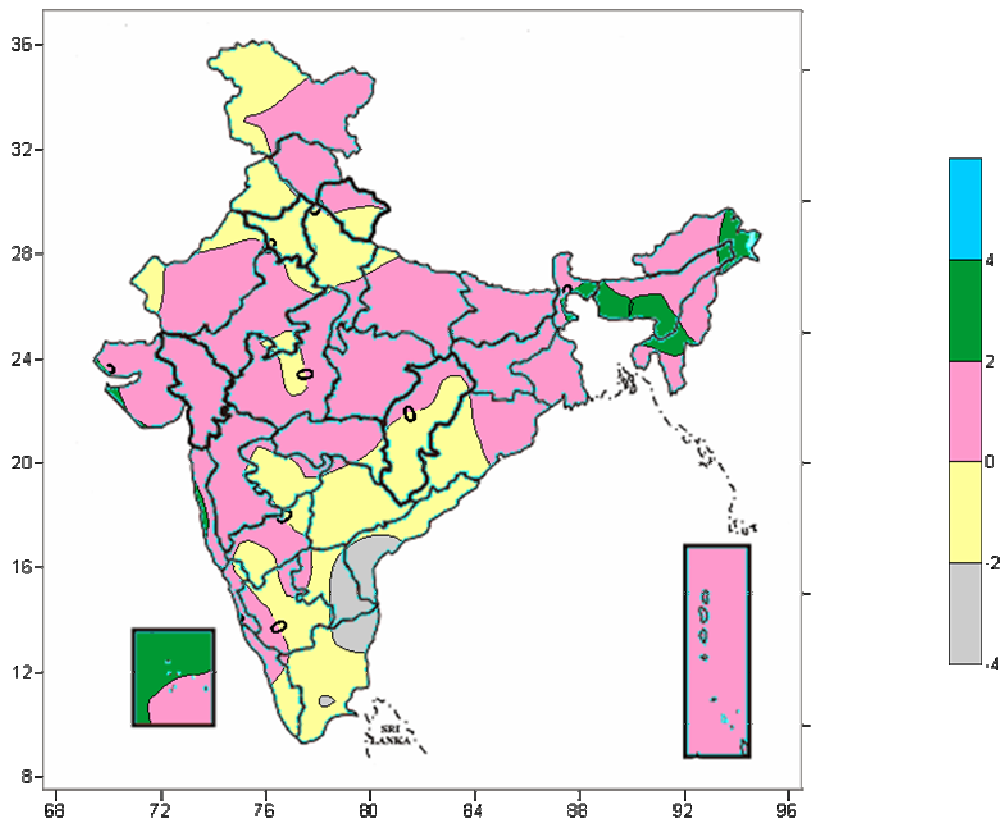
## **OUTLOOK FOR THE WEEK ENDING ON 8<sup>TH</sup> NOVEMBER, 2006.**

- Scattered to fairly widespread rainfall activity is likely over south peninsula.
- Fall in night temperatures over north and central India from middle of the week.

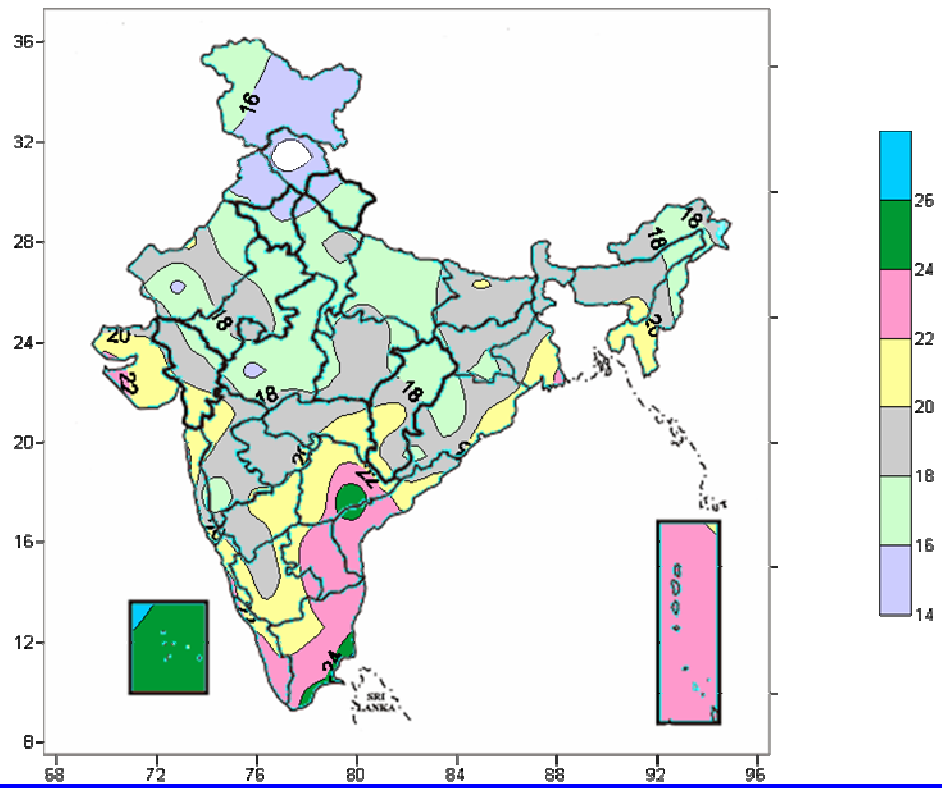
**Actual mean maximum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 01.11.06**



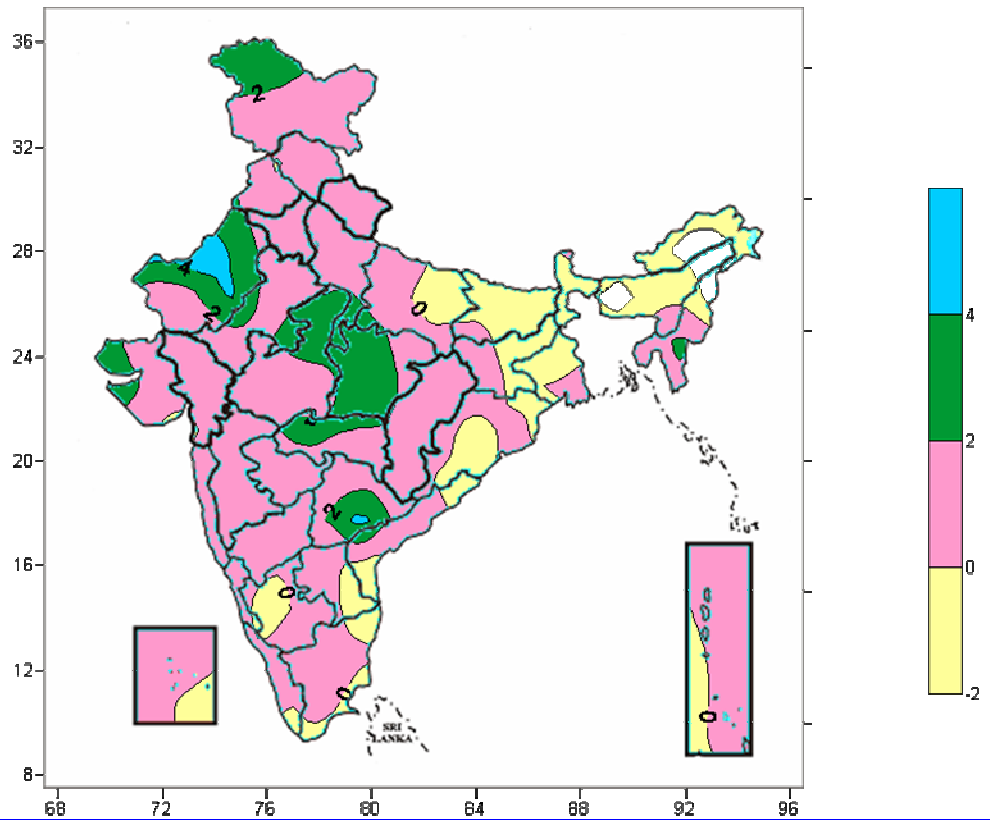
**Maximum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 01.11.06**



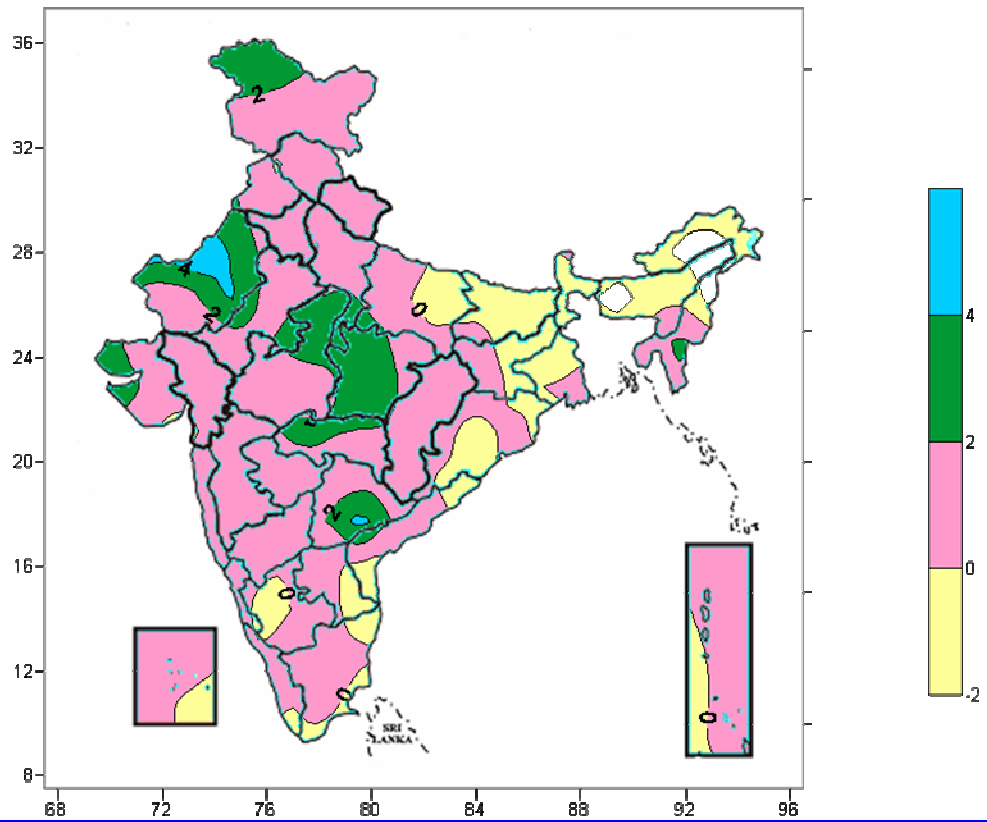
**Actual mean Minimum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 01.11.06**



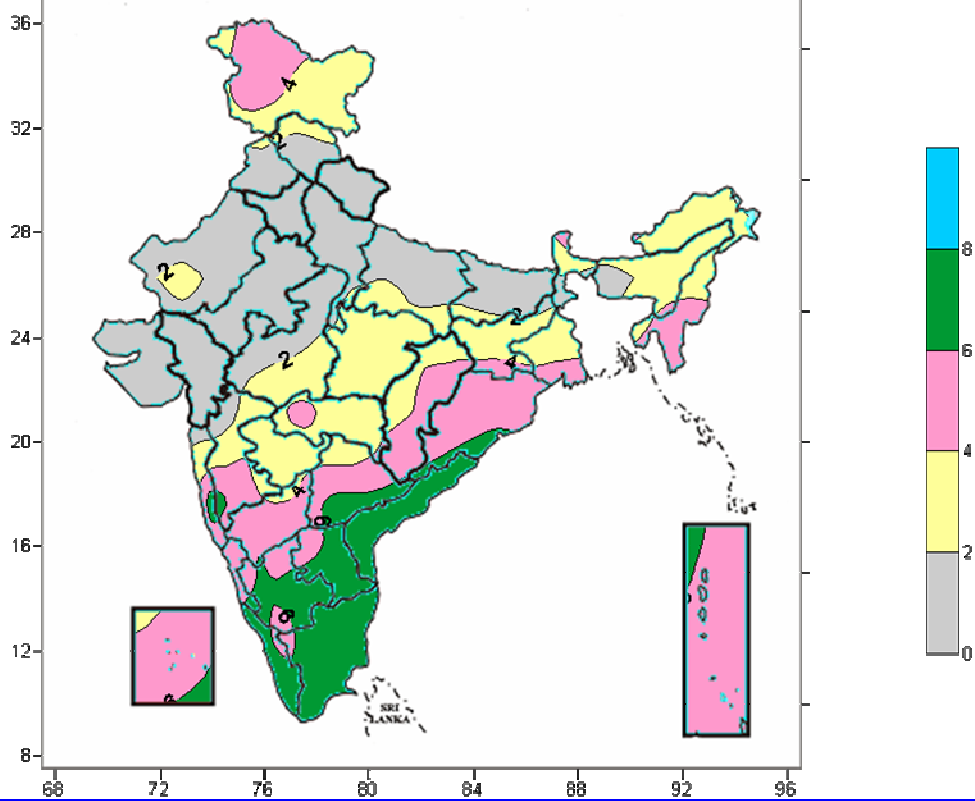
**Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 01.11.06**



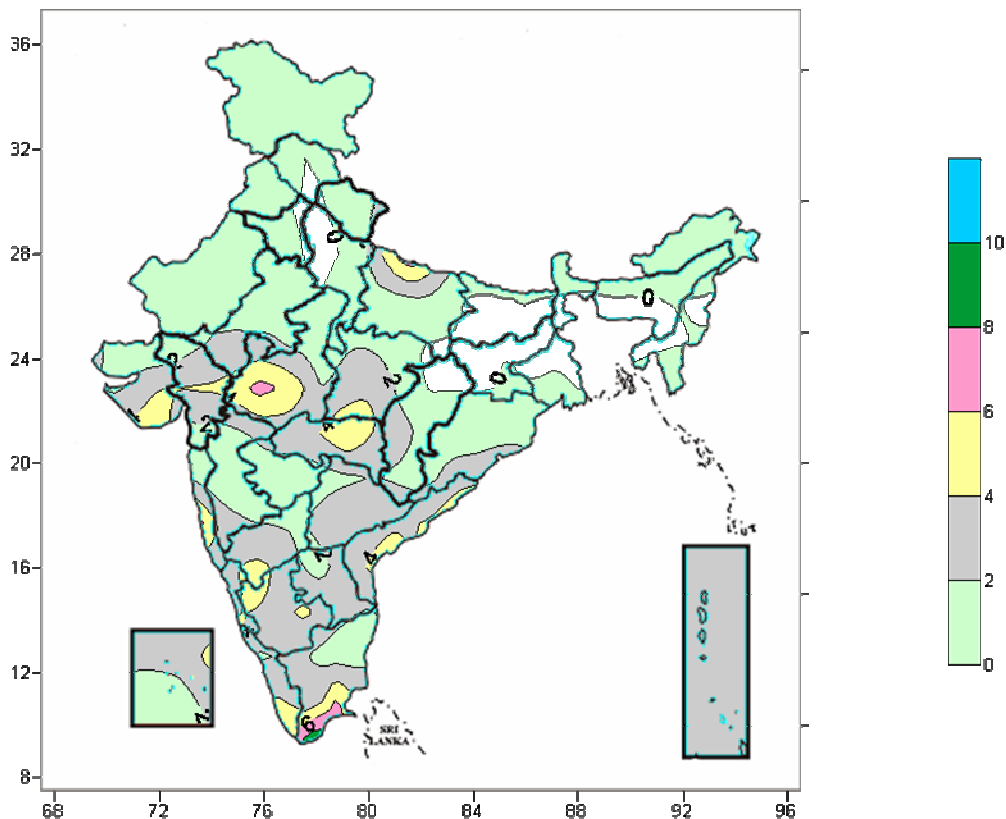
**Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 01.11.06**



**Cloud amount (okta) over India for the week ending 01.11.06**



**Wind speed (knots) over India for the week ending 01.11.06**



## Desert Locust Forecasting



	Rainfall (mm)				
<b>Station Name</b>					
<b>Amritsar</b>	NIL				
<b>Barmer</b>					
<b>Sriganganagar</b>					
<b>Jaisalmer</b>					
<b>Kota</b>					
<b>Deesa</b>					
<b>Churu</b>					

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.

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

<b>Toria</b>	<b>Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot, and turnip)</b>	<b>Early sown vegetable crops</b>	<b>Wheat</b>	<b>Gram</b>
Sowing	Sowing/Transplanting	Vegetative/ flowering/ fruiting/ harvesting	Sowing	Sowing
<b>Early sown Toria</b>	<b>Mustard</b>			
Vegetative	Sowing			

### Haryana

<b>Horticultural crop</b>	<b>Sugarcane</b>	<b>Gram</b>	<b>Rabi oilseeds</b>	<b>Wheat</b>
Sowing/plantation	Vegetative	Sowing/early vegetative	Sowing	Sowing/early vegetative

### Himachal Pradesh

<b>Wheat</b>	<b>Gram</b>	<b>Apple</b>	<b>Vegetables (Tomato, brinjal, ladies finger)</b>	<b>Barley</b>
Land preparation/sowing	Land preparation/sowing	Harvesting	Vegetative/flowering / fruiting / harvesting	Land preparation/sowing
			<b>Summer vegetables Radish, Turnip, Carrot</b>	<b>Summer vegetables (Cauliflower, Cabbage) /Aricle peas</b>
			Sowing	Preparation of nursery in low hills & Transplanting in high hills / Sowing

### Jammu & Kashmir

<b>Vegetables crops</b>	<b>Rice</b>	<b>Mustard</b>	<b>Pea</b>	<b>Wheat</b>
Harvesting	Grain maturity	Sowing	Sowing	Sowing
		<b>Toria</b>	<b>Brown Sarson</b>	<b>Lentil</b>
		Sowing	Sowing	Sowing
<b>Wheat</b>				
Sowing				

### Punjab

<b>Sugarcane</b>	<b>Rabi oilseeds</b>	<b>Gram</b>	<b>Horticultural crop</b>	<b>Wheat</b>
Vegetative	Sowing	Sowing / early vegetative	Sowing/plantation	Sowing / early vegetative

### Rajasthan

<b>Cotton</b>	<b>Groundnut</b>	<b>Wheat</b>	<b>Gram</b>	<b>Barley</b>
Boll picking	Harvesting	Land preparation/sowing	Land preparation/sowing	Land preparation/sowing
<b>Soyabean</b>	<b>Mustard</b>			
Harvesting	Land preparation / sowing			

### Uttar Pradesh

<b>Kharif Pulses/Rabi pulses</b>	<b>Sugarcane</b>	<b>Kharif Vegetables</b>	<b>Winter Vegetables</b>	<b>Mustard, Rai</b>
Harvesting /Sowing	Cane maturity / harvesting	Harvesting	Early vegetative	Sowing
<b>Mango</b>	<b>Kharif Maize, Jowar, Bajra</b>	<b>Kharif rice</b>	<b>Toria</b>	<b>Kharif Groundnut</b>
Active growth	Harvesting	Maturity/harvesting	Early vegetative	Harvesting
<b>Wheat</b>	<b>Barley</b>			

Sowing	Sowing			
<b>Uttaranchal</b>				
<b>Rice</b>	<b>Mango/Litchi</b>	<b>Wheat</b>	<b>Sugarcane</b>	<b>Toria</b>
Maturity/harvesting	Active growth	Sowing	Grand growth	Seedling/early vegetative
	<b>Millets (Ragi)</b>	<b>Pea &amp; Potato</b>		
	Maturity/harvesting	Seedling/early vegetative		
<b>Assam</b>				
<b>Maize</b>	<b>Sugarcane</b>	<b>Wheat</b>	<b>Vegetables</b>	<b>Balck gram and Green gram</b>
Harvesting	Cane maturity / harvesting	Land preparation/sowing	Land preparation / sowing	Flowering pod formation
<b>Sali rice</b>	<b>Arhar</b>	<b>Rape seed and Mustard</b>	<b>Early sown Rape seed and Mustard</b>	<b>Pea, Lentil and Potato</b>
Grain formation/maturity	Flowering pod formation	Land preparation/sowing	Early vegetative	Land preparation/sowing
<b>Arunachal Pradesh</b>				
<b>Mustard</b>	<b>Ginger</b>	<b>Potato</b>	<b>Wheat</b>	<b>Winter vegetables</b>
Land preparation / sowing	Vegetative	Land preparation / sowing	Land preparation / sowing	Vegetative
<b>Bihar</b>				
<b>Fruits and Vegetables</b>	<b>Winter vegetables</b>	<b>Rice</b>	<b>Early sown Maize</b>	<b>Rabi Maize</b>
Vegetative	Sowing / transplanting	Grain formation/maturity/harvesting	Land preparation/sowing/germination	Field preparation / sowing
<b>Pulses and Oil seeds</b>	<b>Potato</b>	<b>Rabi Oil seeds (Toria, Sarson, Linseed)*early sown</b>	<b>Rabi Pulses (Lentil, Gram, Pea)*early sown</b>	<b>Maize</b>
Seed maturity	Field preparation / sowing	Field preparation / sowing/*Early vegetative	Field preparation / sowing/*Early vegetative	Cob maturity/harvesting
<b>Jharkhand</b>				
<b>Rice</b>		<b>Wheat</b>	<b>Rabi Maize</b>	
Grain formation/maturity		Field preparation /sowing	Field preparation /sowing	
<b>Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)</b>	<b>Early planted kharif vegetables</b>	<b>Rabi pulses and oilseeds</b>	<b>Pea &amp; Onion</b>	
Transplanting	Early vegetative / vegetative	Field preparation /sowing	Sowing	
<b>Sikkim</b>				
<b>Orange</b>	<b>Rice</b>	<b>Large Cardamom</b>	<b>Rabi vegetables</b>	<b>Wheat</b>
Fruit harvesting	Grain maturity/early harvesting	Harvesting	Early vegetative/vegetative Transplanting – in some areas contd.	Sowing
<b>Mustard</b>				
Sowing				
<b>West Bengal</b>				
<b>Boro rice</b>	<b>Sugarcane</b>		<b>Green Gram</b>	
Field preparation / sowing	Vegetative		Pod maturity / harvesting	
<b>Groundnut</b>	<b>Lentil</b>	<b>Gram</b>	<b>Aman rice</b>	<b>Maize</b>
Pod formation/maturity	Field preparation / sowing	Field preparation / sowing	Flowering/grain formation	Field preparation / sowing
<b>Chattisgarh</b>				
<b>Gram</b>	<b>Tomato, chilli, brinjal</b>	<b>Sugarcane</b>	<b>Kharif rice</b>	<b>Linseed, Safflower, Mustard, Toria</b>
Field	Vegetative	Cane development	Grain	Field



preparation/sowing			formation/maturity/harvesting	preparation/sowing
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**Gujarat**

<b>Mustard</b>	<b>Pre-monsoon irrigated Cotton</b>	<b>Kharif groundnut</b>		<b>Sugarcane</b>
Land preparation/sowing	Boll formation / picking	Harvesting		Cane development/early maturity
<b>Kharif Cotton</b>	<b>Castor</b>		<b>Kharif Rice</b>	<b>Mustard</b>
Square / boll formation	Vegetative/flowering		Harvesting	Land preparation / sowing

**Maharashtra**

<b>Kharif Groundnut (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Tur (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Irrigated Cotton</b>	<b>Sugarcane (Seasonal) (Madhya Maharashtra, Marathwada and Vidarbha)</b>	
Pod maturity / harvesting	Flowering/pod formation	Boll formation / boll maturity	Elongation/cane maturity	
<b>Jowar (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif sunflower (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Soyabean (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif rice (Konkan)</b>	<b>Kharif rice (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>
Grain maturity/harvesting	Head maturity / harvesting	Pod maturity / harvesting Late sown crops are at pod formation stage	(medium varieties) Grain formation/maturity/harvesting/ (late varieties) Grain formation/grain maturity	Flowering / grain formation (in Vidarbha) Grain formation / Grain maturity (in Madhya Maharashtra, Marathwada)
<b>Potato (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif cotton (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Rabi Jowar (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Rabi Sunflower (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Wheat (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>
Field preparation/planting	Square formation/Boll formation	Field preparation / sowing	Field preparation / sowing	Field preparation / sowing
<b>Gram (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Rabi maize (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Rabi Safflower (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Sugarcane Preseasonal (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	
Field preparation / sowing	Field preparation / sowing	Field preparation / sowing	Field preparation/planting	

**Madhya Pradesh**

<b>Wheat</b>	<b>Mustard</b>	<b>Kharif crops</b>	<b>Masoor</b>	<b>Linseed</b>
Sowing	Sowing	Pod maturity	Sowing	sowing
<b>Gram</b>				
Sowing				

**Orissa**

<b>Vegetables</b>	<b>Earlier sown vegetables</b>	<b>Mustard</b>	<b>Rabi Groundnut</b>	<b>Sugarcane</b>
Transplanting	Flowering / fruiting / harvesting	Sowing	Sowing	Vegetative / tillering
		<b>Pulses</b>	<b>Oilseeds</b>	<b>Early sown pulses</b>
		Sowing (Biri / Mung / Kulthi)	Sowing	Pod maturity

**Andhra Pradesh**

<b>Kharif rice</b>	<b>Kharif crops(Chillies/ Chillies/ Tur)</b>	<b>Maize</b>	<b>Groundnut</b>	<b>Cotton</b>
Grain development	Pod formation/ Chillies- fruiting/harvesting	Harvesting	Pod formation	Boll maturity

**Karnataka**

<b>Groundnut</b>	<b>Sugarcane (Ratoon crop &amp; new crop)</b>	<b>Kharif crops (jowar, maize)</b>	<b>Kharif rice</b>	<b>Kharif cotton</b>
Pod harvesting	Maturity/early harvesting	Harvesting	Grain development	Boll maturity/picking
<i>Rabi jowar, wheat and maize</i>	<i>Rabi jowar, wheat and maize(Early sown)</i>			
Sowing	Germination / seedling			

**Kerala**

<b>Rubber</b>	<b>Virippu Rice</b>	<b>Pepper</b>	<b>Mundakan rice</b>	
Tapping	Transplanting	Berry development /maturity	Nursery	

**Tamil Nadu**

<b>Pulses (Black gram and green gram)</b>	<b>Millets</b>	<b>Cotton</b>	<b>Early &amp; mid sugarcane</b>	<b>Groundnut</b>
Pod maturity / early harvesting	Sowing	Sowing	Maturity	Pod maturity / early harvesting
<b>Rice (<i>Kuruvai</i>)</b>	<b>Rice (<i>Samba</i>)</b>	<b>Pulses (Blach gram and Green gram)</b>	<b>Oilseeds (Groundnut)</b>	
Dough	Nursery	Sowing	Sowing	