



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

**Thursday, 8<sup>th</sup> March, 2007**

(For the period 8<sup>th</sup> March to 12<sup>th</sup> March, 2007)

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 Uttarakhand)**

**Punjab**

Weather remained mainly dry.

Mainly dry weather is likely over the state during next 24 hours. Isolated to scattered rain / thundershowers are likely to commence from tomorrow onwards.

**Advisories**

- Undertake planting of early maturing varieties of **sugarcane** i.e COJ 64, COH 56 and COH 92 and mid season CO 7717, COH 99 and COS 8436. For planting select only 2/3<sup>rd</sup> portion of healthy cane free from diseases. Recommended seed rate for one hectare is 34800 two budded setts or 23200 three budded setts weighing about 30 quintal.
- Monitor **rabi oilseeds** for **aphids** attack and if the pests population crosses ETL, spray Dimecron @ 250 ml / ha or Methyl Demiton @ 850 ml / ha on a non rainy-day.
- Spray one litre Endosulfan 35 EC in 650 litres of water on a non-rainy day to control **aphids** in **wheat**.
- Monitor the **pulse** crops for **pod borer** attack and if the pest population crosses ETL, spray Endosulphan @ 500-750 ml / ha on a non-rainy day.

**Haryana**

Weather remained mainly dry in the state during the period.

Mainly dry weather is likely over the state during next 24 hours. Isolated to scattered rain / thundershowers are likely to commence from tomorrow onwards.

**Advisories**

- Undertake planting of early maturing varieties of **sugarcane** i.e CO J-64, COH 56 and COH 92 and mid season CO 7717, COH 99 and COS 8436. For planting select only 2/3<sup>rd</sup> portion of healthy cane free from diseases. Recommended seed rate for one hectare is 34800 two budded setts or 23200 three budded setts.
- Continue sowing of **sunflower**.
- Attack of rust is reported in **wheat**. For controlling brown and yellow rust spray with Indofil Z-78@ 800 g / acre in 200 liters water on a non-rainy day.
- Attack of leaf miner is reported in **mustard**. For controlling leaf miner, spray Dimecron @ 250 ml / ha or Methyl Demiton @ 850 ml / ha on a non-rainy day.

**Rajasthan**

Weather remained generally sunny in all the divisions of the State.

Isolated rain / thundershowers are likely over the State from 9<sup>th</sup> March.

**Advisories**

- Apply irrigation to **wheat** as rain / thundershower is likely to occur only at isolated places over Rajasthan from

9<sup>th</sup> March onwards. Conserve moisture in **mustard**, **gram**, **cumin** and **barley** fields as the crops are now at maturity stage.

- Weather conditions are congenial for the attack of **aphids** in **mustard**, **pod borer** in **gram** and **aphids**, **powdery mildew** and **blight** attack in **cumin**. Avoid spraying as the crops are now at maturity stage.
- Monitor **wheat** for **termite** attack and apply Endosulfan 35EC @ 2.285 litres / ha or Chloropyrifos 20 EC @ 4 litres / ha to control termite.

## Uttar Pradesh

Weather was mainly dry in all divisions of U.P. from 5<sup>th</sup> March to 7<sup>th</sup> March.

Mainly dry weather is likely over west U.P. during next 24 hours. Isolated to scattered rain / thundershowers are likely to commence from tomorrow onwards in west U.P. Mainly dry weather is likely over East U.P.

### Advisories

- There was excess rainfall in the State during last week and mainly dry weather is likely over East U.P. Under the circumstances apply light irrigation depending on the soil profile stored moisture to **wheat** and **winter vegetable** in East U.P.
- To control the violet spot disease in **Onion** spray the solution of Mancozeb 0.2% @ 2gm / liter on a non-rainy day in west U.P. Continue the spraying in East U.P.
- Monitor **mango** for hopper and if the pests population crosses ETL, spray the solution of 1 ml Phentirothion or Diazenon 2 ml / litre in water on a non-rainy day in west U.P. Continue the spraying in East U.P.
- Continue the sowing of **summer urd**, **moong**, **maize**, **sunflower** and **sugarcane**.

## Himachal Pradesh

The weather was mainly dry.

Mainly dry weather is likely over the State during next 24 hours. Scattered rain / snow is likely to commence from tomorrow onwards.

### Advisories

- As scattered to fairly widespread rain / snow is likely to occur from tomorrow onwards over the State, postpone irrigation to the crops.
- Continue land preparation and nursery sowing and transplanting of **cauliflower** and **cabbage** in low and mid hills.
- Apply second split dose of N @ 25 – 30 kg / ha on a non-rainy day at tillering stage of **wheat**.
- There is mild chance of attack of **pod borer** in **gram**. If attack crosses economic threshold level, spray Monocrotophos (Monocil 36 EC/SL) or Carbaryl 50 WP (Sevin) @ 875 ml or Endosulfan 35 EC (Thiodan/Hindon/Endocel) @ 1250 ml in 625 litres of water per ha on a non-rainy day. Spraying can be repeated at 15 days interval, if the pest still persists.
- As isolated hail storm is likely over the State, farmers are advised to arrange for shading to save the horticultural crops.
- Farmers are advised to arrange for smoking around the field to save the crops from cold injury. Also wipe out water droplets on the leaves by pulling rope from the two sides of field. This will prevent formation of ice crystals during night time.

## Uttarakhand

Light to moderate rain / snow was recorded at many places on 1<sup>st</sup> and 2<sup>nd</sup> March, while mainly dry weather prevailed during rest of the period.

Mainly dry weather is likely over the state during next 24 hours. Isolated to scattered rain / thundershowers are likely to commence from tomorrow onwards.

### Advisories

- There was excess rain in the State during last week and mainly dry weather is likely over the state during next 24 hours. Only isolated to scattered rain / thundershowers are likely to commence from tomorrow onwards.

Under the circumstances, apply light irrigation depending on soil profile stored moisture to **mango, potato and wheat** crops.

- Undertake planting of **potato** in hilly areas.
- Field preparation may be started for sowing / ratooning of **sugarcane**.

### **Jammu & Kashmir**

Light rain / snow occurred at isolated places on 5<sup>th</sup> March. Weather remained mainly dry for rest of the days over J & K State.

Mainly dry weather is likely over the State during next 24 hours. Scattered rain / snow is likely to commence from tomorrow onwards.

#### **Advisories**

- Hail storm / squall is likely at isolated places on 11<sup>th</sup> and 12<sup>th</sup>. Monitor the crops and arrange for shading arrangements to prevent damage to the horticultural crops due to hail storm. Drain out excess water immediately. Make arrangements for preventing lodging of plants due to squally winds.
- Postpone irrigation to **vegetables, wheat and brown sarson** as there are chances of rainfall at scattered places.
- There are chances of cold / frost injury to horticultural crops in Jammu and Kashmir. In order to protect the crops from cold / frost injury, farmers are advised to undertake the following measures.
  - Arrange for smoke near the field to safeguard the crops from cold / frost injury.
  - Wipe out water droplets on the leaves by pulling rope from the two sides of field. This will prevent formation of ice crystals during night time.
- Rouge out loose smut and flag smut affected **wheat and barley** crops in Jammu and destroy them completely to prevent further spread.
- Undertake intercultural operations, application of fertilizers and pesticides in **vegetable crops and brown sarson** in Kashmir division on a non rainy day.
- Complete sowing **bhindi, beans, cucurbits and fruit crops**

### **Delhi**

Weather remained mainly dry.

Mainly dry weather is likely over the State during next 24 hours. Isolated to scattered rain / thundershowers are likely to commence from tomorrow onwards.

#### **Advisories**

- As there was no significant rainfall during last week over the State and only isolated to scattered rain / thundershower is likely to commence from tomorrow onwards, apply irrigation to **vegetables, wheat, barley, gram and mustard**.
- Prepare land and perform sowing of **pumpkin, ladies finger, beans and Spinach**.
- Use Parbani Kranti, Pusa Savnee and Pusa Sadabahar varieties of **ladies finger** and Pusa Jyoti variety of **spinach** for sowing.
- Monitor red pumpkin beetle in **cucurbits** and if attack exceeds economic threshold level, spray carbaryl 50% WP @ 750 – 1000 gms / ha on a non-rainy day.

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

#### **Kerala**

Rain / thundershowers occurred at isolated places on 5<sup>th</sup> & 7<sup>th</sup> March. Dry weather prevailed on 6<sup>th</sup> March.

Isolated rain / thundershowers likely over Kerala.

#### **Advisories**

- Apply irrigation to **plantation crops and punctiona rice** as rain / thundershower is likely to occur only at isolated

places for the next three days over the state.

- Attack of leaf folder, stem borer and gall midge is reported in **puncha rice**. Spray Carbaryl @ 2 kg / ha to control the pests.
- Attack of coried bug, leaf rot and stem bleeding is reported in **coconut**. Spray Sevin @ 4 gm / litre of water to control coried bug. Spray crowns and leaves with Bordeaux mixture @ 1% or Copper Oxy Chloride @ 0.5% or Mancozeb @ 0.4% to control leaf rot. Chisel out affected tissues completely and paint the wound with Tridemorph 5% to control stem bleeding disease. Apply coal tar after 1-2 days. Root feed with Tridemorph @ 5% to prevent further spread.
- Attack of spindle bug is reported in **arecanut**. Spray Carbaryl @ 4 g / litre of water to control the pest.
- Protect the **plantation crops** from scorching by applying lime.

### **Tamilnadu**

Weather remained mainly dry.

Mainly dry weather is likely over the state.

#### **Advisories**

- Apply irrigation to **rice, millets, sunflower, pulses, cotton** and **groundnut** as dry weather is likely to prevail for the next three days over the state.
- Complete planting of **early sugarcane**. Undertake sett treatment with *Pseudomonas fluorescence* @ 600 g / ha before planting. Monitor the early planted crop for shoot borer. Pick up the egg mass and destroy completely. Spray Endosulfan or Monocrotophos @ 1.5 litres / ha to control larvae.
- Undertake intercultural operations to keep the field weed free and application of fertilizers in **maize, groundnut, cotton** and **sunflower**.

### **Karnataka**

Dry weather prevailed over the State on all days.

Mainly dry weather is likely over the State.

#### **Advisories**

- Apply irrigation to **summer groundnut, sunflower, sugarcane** and **rice** as there was no significant rainfall during last few weeks and mainly dry weather is likely to prevail for the next three days.
- Monitor **rice** for **leaf roller, stem borer** and **thrips** and if the pest population crosses ETL, undertake plant protection measures.
- Monitor **groundnut** for **leaf miner** and if the pest population crosses ETL, undertake plant protection measures.
- Complete harvesting **rabi** crops like **jowar** and **wheat**.
- Monitor **sugarcane** for **wooly aphids** in Mysore, Mandya and Hassan districts and if the pest population crosses ETL, release *Dipha* sp, adopt wider spacing, inter-cropping with **soyabean** and **pulses** of short duration.

### **Andhra Pradesh**

Isolated rain occurred over Coastal Andhra Pradesh on 4<sup>th</sup> & 5<sup>th</sup> March. Dry weather prevailed over the State during the period.

Isolated rain / thundershowers are likely over the State.

#### **Advisories**

- Conserve moisture in **groundnut** as the crop is now at maturity stage.
- Attack of **blast** is reported in **rice**. Spray Tricyclozole @ 0.5 gm or Edfenophos @ 1 ml / litre of water. Undertake weeding followed by application of urea in **rice**. Maintain 4-5 cm standing water in the field.
- Continue harvesting matured crops of **Bengal gram, maize** and **red gram**.

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

### Assam

Light rain occurred at one or two places on 6<sup>th</sup> and weather was mainly dry on 5<sup>th</sup> & 7<sup>th</sup> March over the state.

Mainly dry weather is likely over the State.

#### Advisories

- As there was excess rain in Darrang, Lakhimpur, Nalbari and Sonitpur districts of the State during last week and mainly dry weather is like for next three days, apply light irrigation to wheat at milk and dough stage depending on soil profile stored moisture in these districts. Apply irrigation in the remaining districts of the State to the crops to bring soil to field capacity.
- Maintain 3 – 5 cm water at tillering stage in the *boro rice* field.
- Continue harvesting of sugarcane, arhar, rapeseed and mustard, pea, lentil and potato on bright sunny days. Red rot infested canes should be harvested early and field should be newly planted and ratooning should be discouraged.
- Mild incidence of Aphids and Stem borer and Leaf blight and Leaf spot diseases in wheat and Hispa, Brown Plant Hopper, Yellow stem borer and blast and sheath blight diseases in rice is reported in a few localities.
- There is mild chance of attack of aphids and stem borer and leaf blight and leaf spot diseases in wheat. Apply Dimecron 100 E.C. @ 0.5 ml per litre of water or Malathion 50 E.C. @ 2 ml per litre of water to control aphids and stem borer. For control of leaf blight and leaf spot diseases apply Diathane Z -78 @ 2.5 gm per litre of water.
- Monitor attack of Hispa, Brown Plant Hopper and blast and sheath blight diseases in *boro rice*. If attack crosses economic threshold level, to control Hispa and Brown Plant Hopper insecticides like Chloropyriphos 20 E.C. @ 1.5 ml per litre of water or Phosphamidon @ 1ml per litre of water is to be applied. For management of yellow stem borer, *Trichogramma Japonicum* @ 50,000 per hectare in six releases is to be used. For control of Blast diseases as soon as 1 or 2 spots on leaf are seen Hinosan 50 E.C. @ 1ml per litre of water or Blitox @ 4gm per litre of water is to be applied and spraying is to be continued at an interval of 10-15 days till the diseases is controlled. For control of sheath blight diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.
- Prepare land and start sowing of summer vegetables like ladies finger, ridge gourd, cucumber etc. and nursery preparation of *early ahu rice*.
- For nursery preparation of *early ahu rice*, land should be thoroughly paddled. Seed bed of 10 m length and 1.25 m breadth with 36 cm gap between two beds should be prepared. Low lying areas having sufficient soil moisture and having assured irrigation facility should be selected. In each bed 20 to 30 Kg cow dung or compost, 80 gm urea, 80 gm single super phosphate and 40 gm MOP are to be applied. Well germinated seeds are to be sown @ 650-1000 gm per bed.

### Arunachal Pradesh

Sky remained mainly cloudy over the State.

Mainly dry weather is likely over the State.

#### Advisories

- Mainly dry weather is likely over the State for the next three days. Under these conditions, apply required irrigation to winter vegetables, potato, mustard, wheat and ginger crops.
- Intercultural operation may be continued in ginger and winter vegetables.
- Monitor mustard crop for aphid infestation. The crop should be protected from aphids by spraying of Metasystox (1ml per liter water) or neem based insecticide (2 ml / litre of water) if crosses economic threshold level. Avoid spraying in matured crop.
- Continue field preparation and sowing of fox tail millet and maize.

### Bihar

Mainly dry weather is likely over the State.

## Advisories

- There was no significant rainfall in the State during last week and mainly dry weather is likely over the State for the next three days. Under the circumstances, apply irrigation to **maize, pulses, and wheat**.
- Prepare land and continue sowing of summer vegetables like **bhindi, bottle gourd, sponge gourd, maize and moong**.
- Maintain 3 – 5 cm water in the **boro rice** field.
- Continue harvesting of **matured potato** crop.
- Monitor **wheat** crop for **blight** disease. If there is excess of **alternaria** or **helminthosporium blight** in leaf or plants of **wheat** spray Propiconazole @ 1 liter / ha or Companion @ 2 kg / ha.
- Monitor **rabi maize** for pest and diseases and if there is considerable symptom of **leaf blight** on leaves spray Mancozeb @ 2.5 Kg / ha.

## Jharkhand

Weather remained mainly dry.

Mainly dry weather is likely over the State.

## Advisories

- There was no significant rainfall in the State during last week and mainly dry weather is likely over the State for the next three days. Under the circumstances, apply irrigation to **vegetables, maize and potato and wheat** crops.
- Monitor wheat for termite attack. Spray Chlorpyrifos @ 2.5 ml / litre of water. Conserve soil moisture in the field.
- If early blight appears in **potato** and crosses economic threshold level, it may be protected by spraying of Mancozeb (2.5 gm per liter of water) or Ridomil (1.5gm per litre).
- Maintain 2 – 3 cm water in the **boro rice** field.

## Sikkim

Sky remained generally cloudy during the period.

Mainly dry weather is likely over the State.

## Advisories

- Monitor **large cardamom** for **stem borer** and undertake plant protection measures to prevent further damage. Remove **Chirkey** and **Foorkey** affected plants and destroy the affected plants completely.
- Continue land preparation and sowing of **maize** and **ginger**. Line sowing may be undertaken in **maize** to ensure plant population. Arrange for drainage facilities in **ginger** to avoid rhizome rot during early stage.
- Start land preparation and sowing of **vegetable** crops in nursery. Select pre-treated, healthy & certified seeds for sowing. Apply FYM and other organic manures as per recommendation before sowing.

## West Bengal

During the said period light to moderate rain occurred at isolated places on 6<sup>th</sup> over Sub Himalyan West Bengal. Weather was mainly dry elsewhere during rest of the period.

Mainly dry weather is likely over the state.

## Advisories

- As there was no significant rainfall in **24 Pargana (S)** and **Dinajpur (S)** districts of the State and mainly dry weather is likely to prevail for next three days, apply irrigation at milk and dough stage of **wheat** to bring the soil moisture to field capacity. As there was excess rain in remaining districts of the State during last week, apply light irrigation in these districts depending on soil profile stored moisture.
- Apply 25 – 30 kg N / ha at 3 weeks after transplanting of **boro rice**. Maintain 3 – 5 cm water in the field at tillering stage.

- Keep vigilance against outbreak of blast disease in *boro rice*. If disease infestation exceeds economic threshold level i.e. at least one leaf or 25 % of the leaves of the plant, spray water soluble Ediphenphos 50% @ 1 ml or Triamiphos 48% @ 1ml or Carbendazim 50% @ 1 gm or Tricycogol 75% @ 0.5 ml per litre of water. 750 litre of water is required for spraying 1 hectare of land.
- Monitor brown rust disease in *wheat* and in the event of occurrence of this disease, apply carboxyn or oxycarboxyn @ 1 gm per liter of water if more than 20 % plants are affected by the disease.
- Prepare land and start sowing of *sesamum*, *groundnut* and *green gram*.
- Select improved variety from Rama, Tilottoma, HT-1 etc. for sowing of *sesamum*. Seed rate is 6 - 7.5 kg per ha. Seeds may be sown at row spacing of 30 cm distance. No fertilizer is required if it is sown after harvesting of potato crop. Otherwise apply FYM @ 12 – 15 cart per ha and 25 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O each per ha.
- Select improved variety from JL24, J-11, A.K-12-24 etc. for sowing of *groundnut*. Seed rate is 110 - 125 kg per ha. Seeds may be mixed by 7.5 packets of 200 gm each of Rhizobium culture followed by sundrying.
- Select improved variety from K-851, Panna, Sonali, Pusha, Baishalkhi etc. for sowing of *green gram*. Seed rate is 25 - 30 kg per ha. Seeds may be mixed with 4 – 5 packets of 200 gm each of Rhizobium culture followed by sundrying.
- Seeds may be treated with 1 gm carbendazime per kg of seeds before sowing.

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

### Gujarat

Weather remained mainly dry.

Mainly dry weather is likely 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 *new sugarcane crop*, *castor*, *wheat*, *summer groundnut* and *summer bajra* to bring the soil moisture to field capacity.
- Apply 75 kg N / ha as top dressing at 45 days after planting of new *sugarcane* crop.
- Prepare land and continue transplanting of *rice* seedling. Transplant 2 – 3 plants / hill. Maintain 2 – 3 cm water in rice field 2 – 3 days after transplanting.
- Maintain 3 – 5 cm water in the *rice* field wherever crops are at tillering stage.
- Prepare field for sowing of *summer groundnut* by 1 or 2 ploughings. Before ploughing apply 8 to 10 MT compost or 1 MT castor cake in the field. Select varieties from J-11, GG-2, 4, 6, TG-26, ICGS-37, 44. Adopt spacing of 22.5 to 30 cm between the rows. Apply 25 kg N, 50 kg P<sub>2</sub>O<sub>5</sub> / ha at the time of sowing as basal dose.
- Prepare field for sowing of *summer bajra* by 2 or 3 deep ploughings. Select varieties from GHB-526, 558. Apply 60 kg N, 60 kg P<sub>2</sub>O<sub>5</sub> / ha at the time of sowing as basal dose.

### Chhattisgarh

Weather was dry over the State.

Isolated rain / thundershowers are likely over the State.

#### Advisories

- As there was no significant rain in the State during last few weeks and isolated rain / thundershowers are likely over the State for next three days, apply irrigation to *sugarcane (new crop)*, *vegetables* and *wheat* and also to early sown *sunflower* wherever crops are at vegetative stage.
- Apply 75 kg N / ha as top dressing at 45 days after planting of *sugarcane*.
- Apply 25 – 30 kg N / ha at 3 weeks after transplanting of *summer rice*. Maintain 3 – 5 cm water in the field at tillering stage.

- Continue preparation of land and sowing of sunflower, summer sesamum, summer vegetables like ladies finger, pumpkin, *barbati* etc. and green gram.
- Select varieties from Kopergaon and K-851 for sowing of green gram.
- Attack of stem borer is reported in wheat. Monitor stem borer population in wheat and if crosses economic threshold level, apply demecron 85 EC @ 2 ml / 3 litres of water.

## Maharashtra

Mainly dry weather prevailed all over the State.

Rain / thundershowers are likely to occur at isolated places in Vidarbha. Mainly dry weather will prevail over rest of the state.

### Advisories

- As there was no rain during last few weeks in the State and rain / thundershowers are likely to occur at isolated places in Vidarbha and mainly dry weather will prevail over rest of the state for next three days, apply irrigation to wheat, onion, sugarcane (Pre-seasonal), summer groundnut, summer sunflower and summer bajra.
- Apply 140 kg Nitrogen / ha along with 85 kg each of P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O at the time of earthing up in sugarcane (Pre-seasonal).
- Second dose of 125 kg Gypsum / ha may be applied after 30 days after sowing of summer groundnut.
- Prepare land and continue transplanting of rice seedlings in Vidarbha. Transplant 3 – 4 seedlings / hill at the time of transplanting. Maintain 2 – 3 cm water in the field after 3 – 4 days of transplanting. Apply of 20 kg Blue green Algae / ha may be done in the crop field after 10 days from transplanting. Maintain 3 – 5 cm water in the field at tillering stage.
- Apply 30 kg Nitrogen / ha after 25 - 30 days from sowing of summer sunflower.
- Apply 45 kg Nitrogen / ha after 25 - 30 days from sowing of summer bajra.
- Prepare land for sowing of summer maize. For sowing select a variety from Karvir, Gangasafed-2, Madhumaka (Sweet corn), Deccan double & African tall.
- Mild incidence of White Woolly Aphids in Pune, Kolhapur and Latur & White fly in Latur in sugarcane, Rust in Kolhapur division in wheat, Hairy caterpillar in Sunflower and Pod borer in Nagpur and Kolhapur division in gram is reported.
- Monitor infested plant by Rust in wheat and if exceeds economic threshold level, spray 75 % Mancozeb 1500 gm + Urea 20 kg/ha in 500 liter water.

## Madhya Pradesh

Dry weather prevailed over the State.

Isolated rain / thundershowers are likely over South east Madhya Pradesh. Mainly dry weather is likely over the rest region of the State.

### Advisories

- Conserve moisture in mustard, irrigated wheat and linseed as the crops are at maturity stage.
- Continue harvesting of matured crops of wheat, gram and masoor.

## Orissa

Weather was dry over Orissa during the above period.

Isolated rain / thundershowers are likely to occur over Orissa.

### Advisories

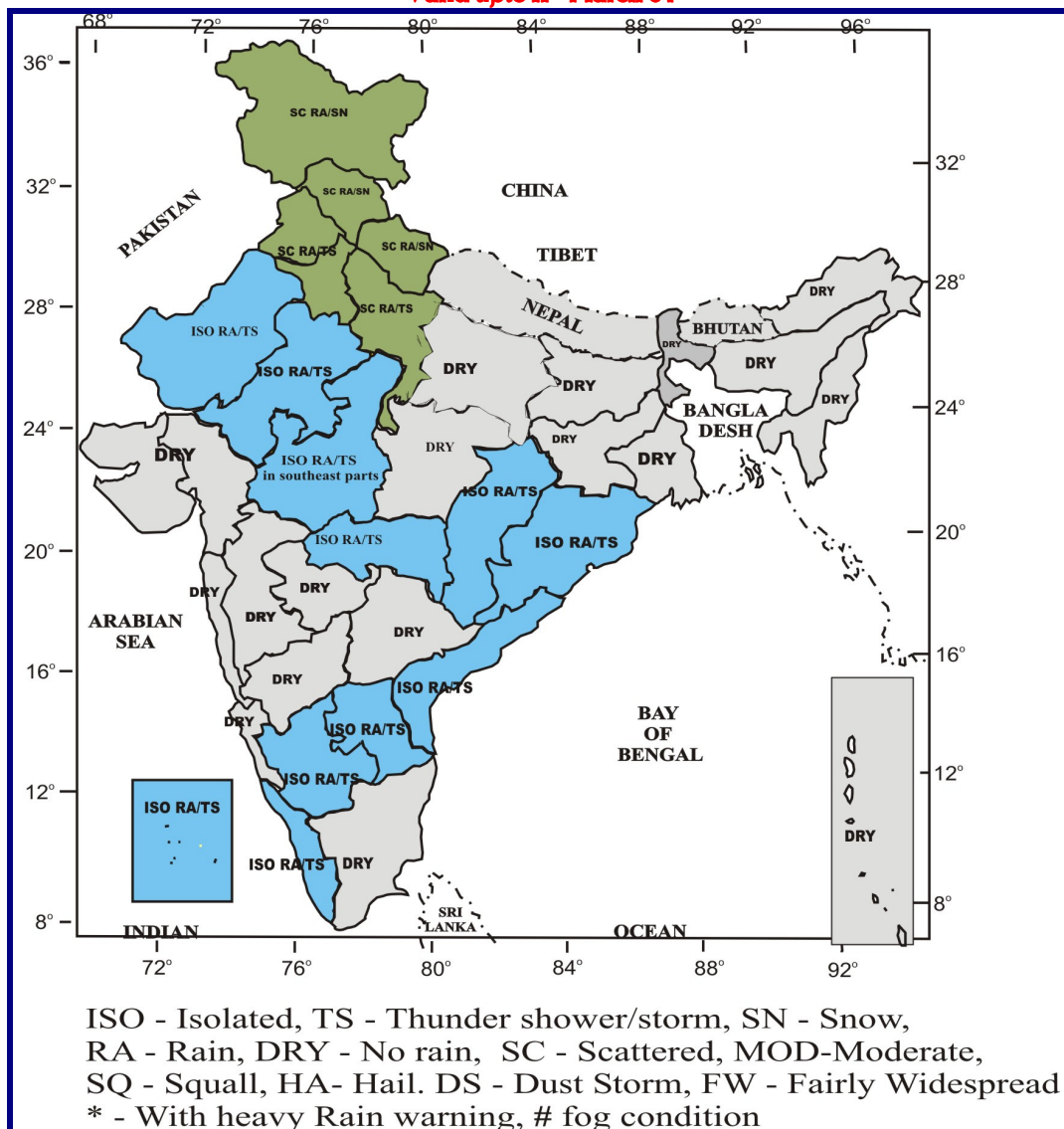
- As weather was dry during last week and rain / thundershowers are likely to occur at isolated places over the State for next three days, apply required amount of irrigation to mustard, vegetables, groundnut and pulses.
- Spray Tricyclazole @ 0.6 gm. / litre of water to manage blast disease and to control stem borer spray Profenphos or Triazophos @ 2 ml per litre of water in *Dalua rice*.



- Prepare land with basal application of 8 kg N, 16 kg P<sub>2</sub>O<sub>5</sub> and 16 kg K<sub>2</sub>O / acre and start sowing of **summer groundnut**. Select varieties from Smruti and AK 12-24.
- Continue sowing of **summer moong** with basal application of 8 kg N, 16 kg P<sub>2</sub>O<sub>5</sub> and 8 kg K<sub>2</sub>O / acre.
- If powdery mildew in **cucurbit vegetables** crosses ETL, spray Mancozeb @ 4 gm / litre of water.
- Monitor **brinjal** and **tomato** for wilt and if it crosses ETL, spray 1.5 g Streptocycline and 20 g copper oxychloride in 10 litres of water.
- Monitor thrips in **chillies** and if it crosses ETL, spray 300 ml Ethion or 400 ml Dimethoate per acre.

## Forecast Map

Valid upto 11<sup>th</sup> March 07



## *Salient weather features for the week ending 07/03/07*

### **METEOROLOGICAL ANALYSIS**

- During the week, two western disturbances affected the Indian region from 23<sup>rd</sup> to 25<sup>th</sup> and from 27<sup>th</sup> onwards. Under the influence of 2<sup>nd</sup> western disturbance, an induced low pressure area formed over central Pakistan and adjoining West Rajasthan on 27<sup>th</sup> and persisted on 28<sup>th</sup>.
- An upper air cyclonic circulation extending upto 1.5 km a.s.l. developed over East Uttar Pradesh on 28<sup>th</sup>.
- A north-south trough extending from Sub-Himalayan West Bengal & Sikkim to north Bay of Bengal was observed from 22<sup>nd</sup> to 23<sup>rd</sup> and from northeastern States to Head Bay on 25<sup>th</sup>.
- An easterly wave also affected the extreme south peninsular region during 24<sup>th</sup> to 26<sup>th</sup>.

### **MINIMUM TEMPERATURES**

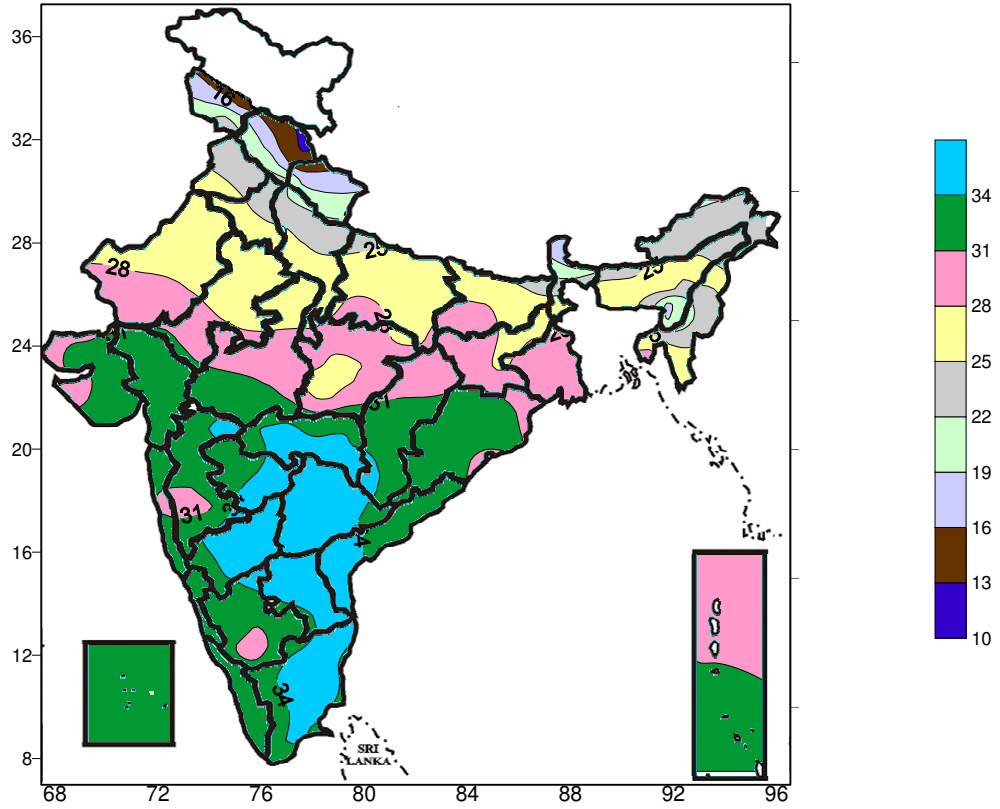
- Minimum temperatures were 3-5 °C above normal over plains of northwest India, Rajasthan, Gujarat, Maharashtra, Madhya Pradesh during first half of the week and 2-3 °C above normal during 2<sup>nd</sup> half of the week.
- They were near normal over Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim from 22<sup>nd</sup> to 24<sup>th</sup> and 3-4 °C above normal on remaining days of the week. They were 3-4 °C above normal over northeastern States on many days of the week.
- They were 3-5°C below normal over south Peninsula on most days of the week.

### **OUTLOOK FOR THE WEEK ENDING ON 14<sup>TH</sup> MARCH, 2007.**

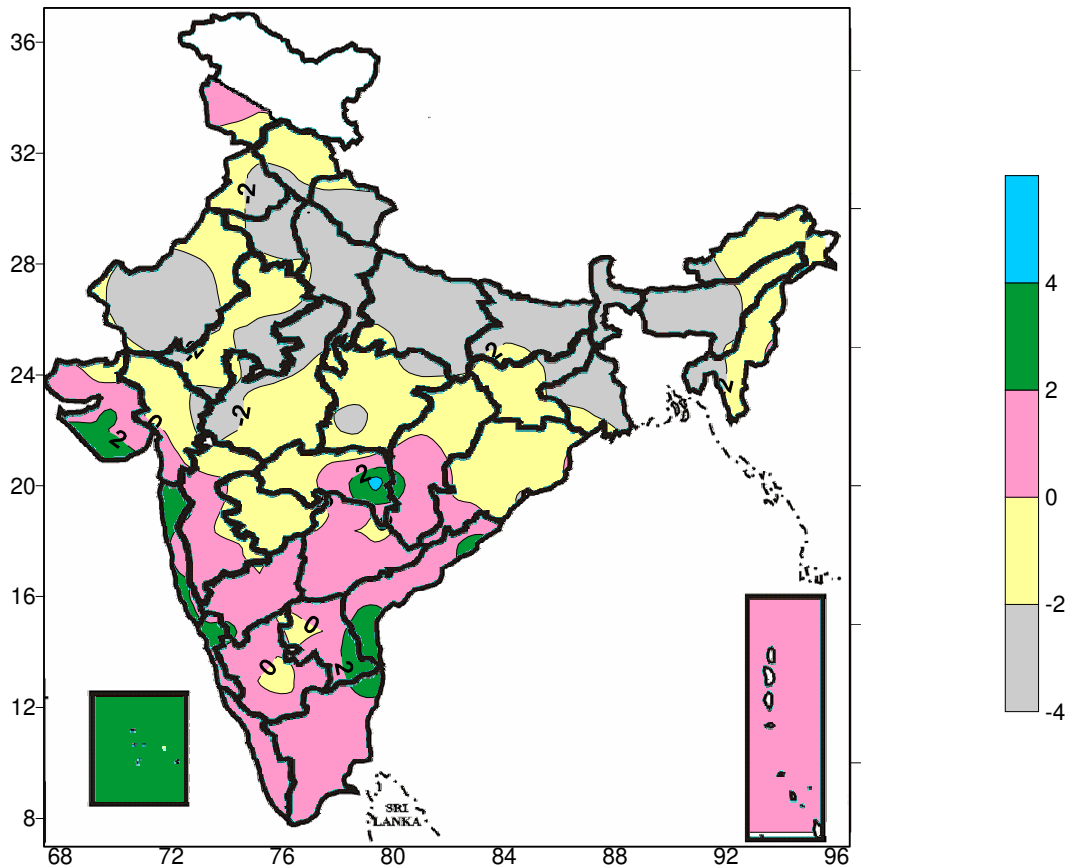
- Fairly widespread precipitation over Western Himalayan region, Indo-Gangetic plains and adjoining central India during 1st two days of the week and over northeastern States and adjoining east India during 1st three days of the week.
- Light rain/thundershowers also likely over extreme south peninsula during 1<sup>st</sup> two days of the week.
- Fall in night temperature and rise in day temperature by 4-6 °C over plains of northwest India during the week.

# Contour maps for the week ending 7<sup>th</sup> March, 2007

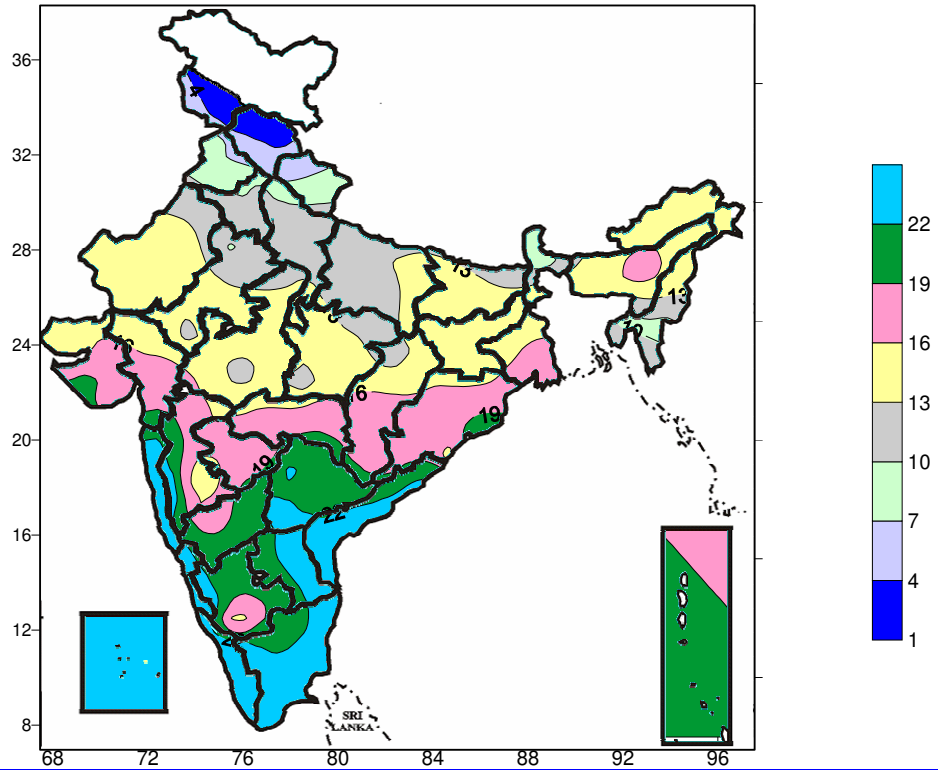
## Actual mean maximum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 07.03.07



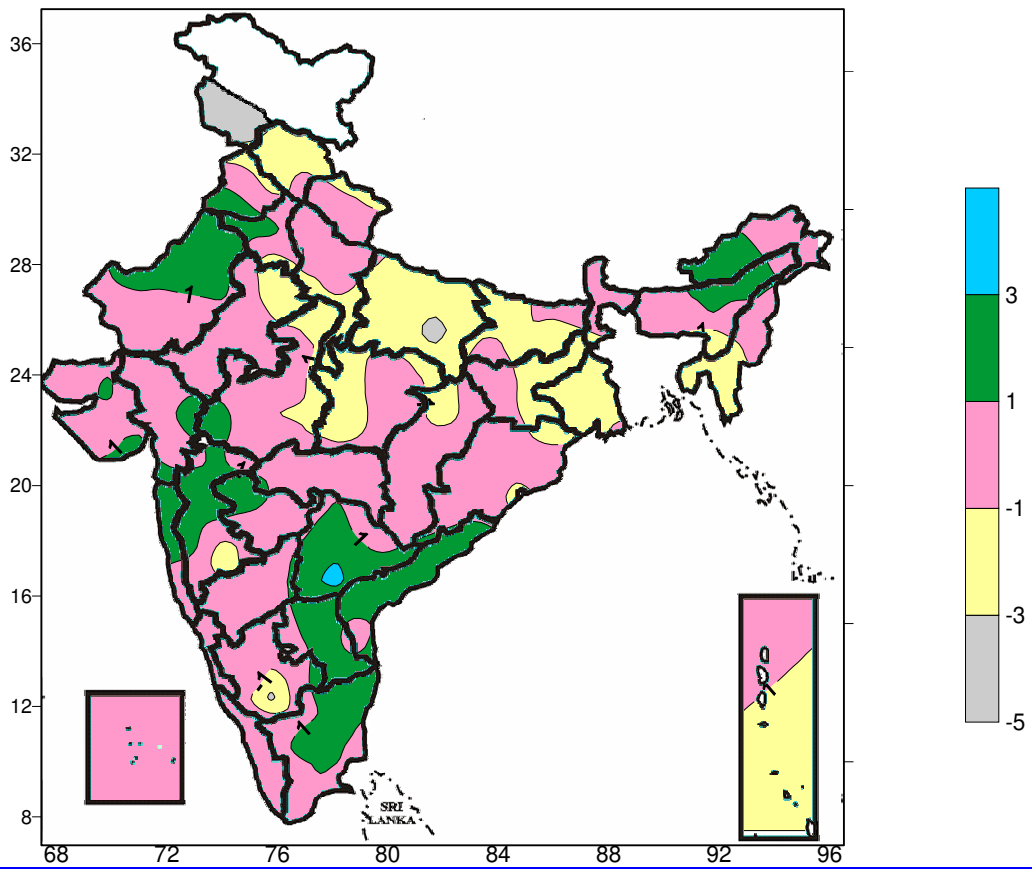
## Maximum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 07.03.07



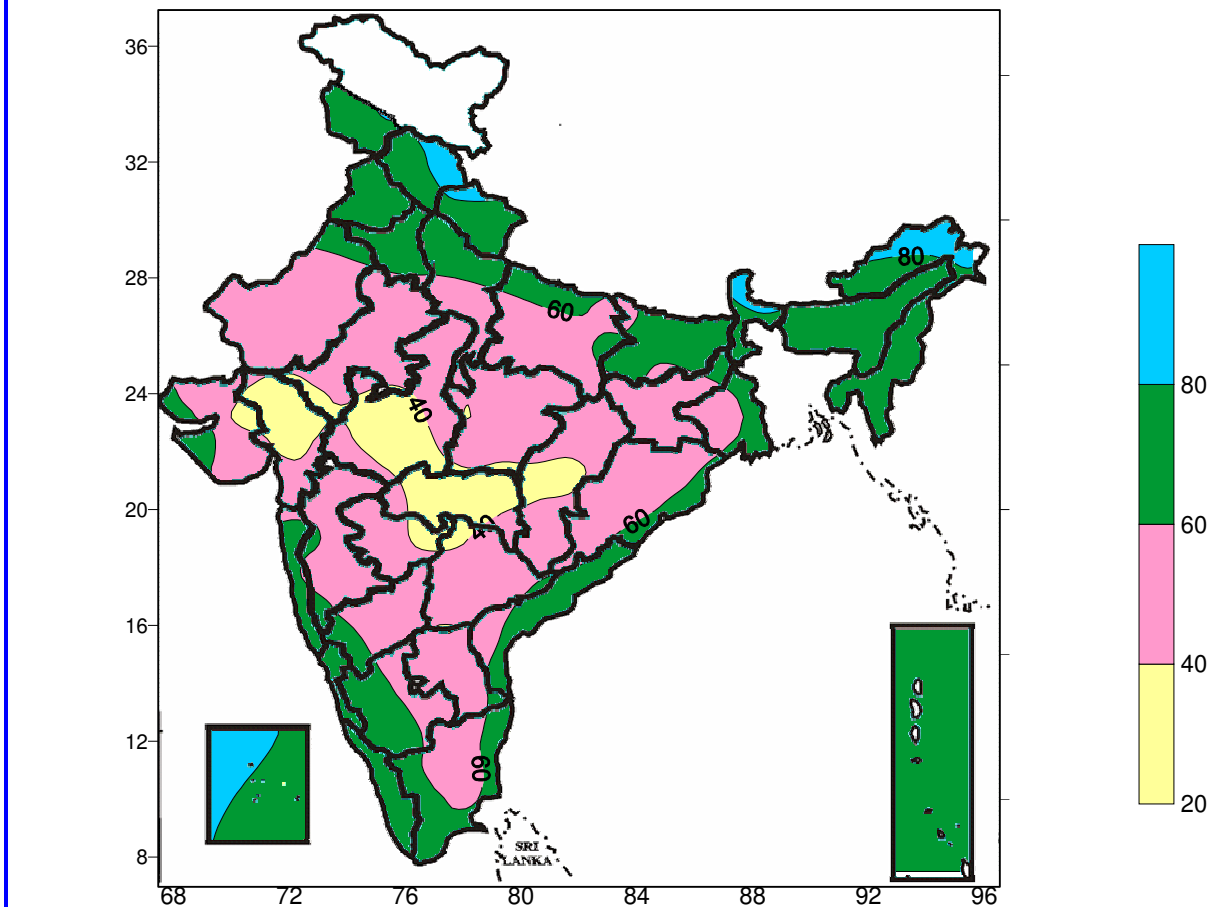
**Actual mean Minimum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 07.03.07**



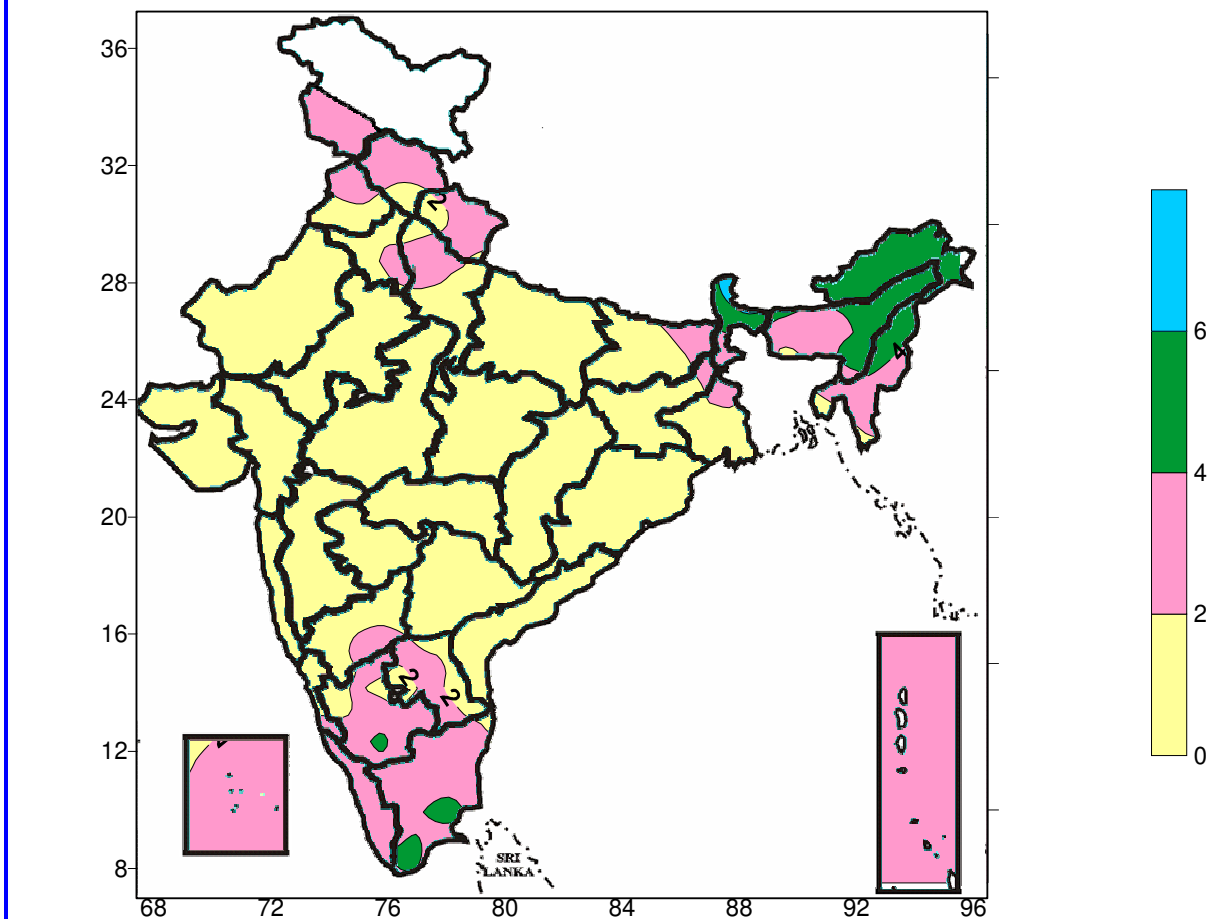
**Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 07.03.07**

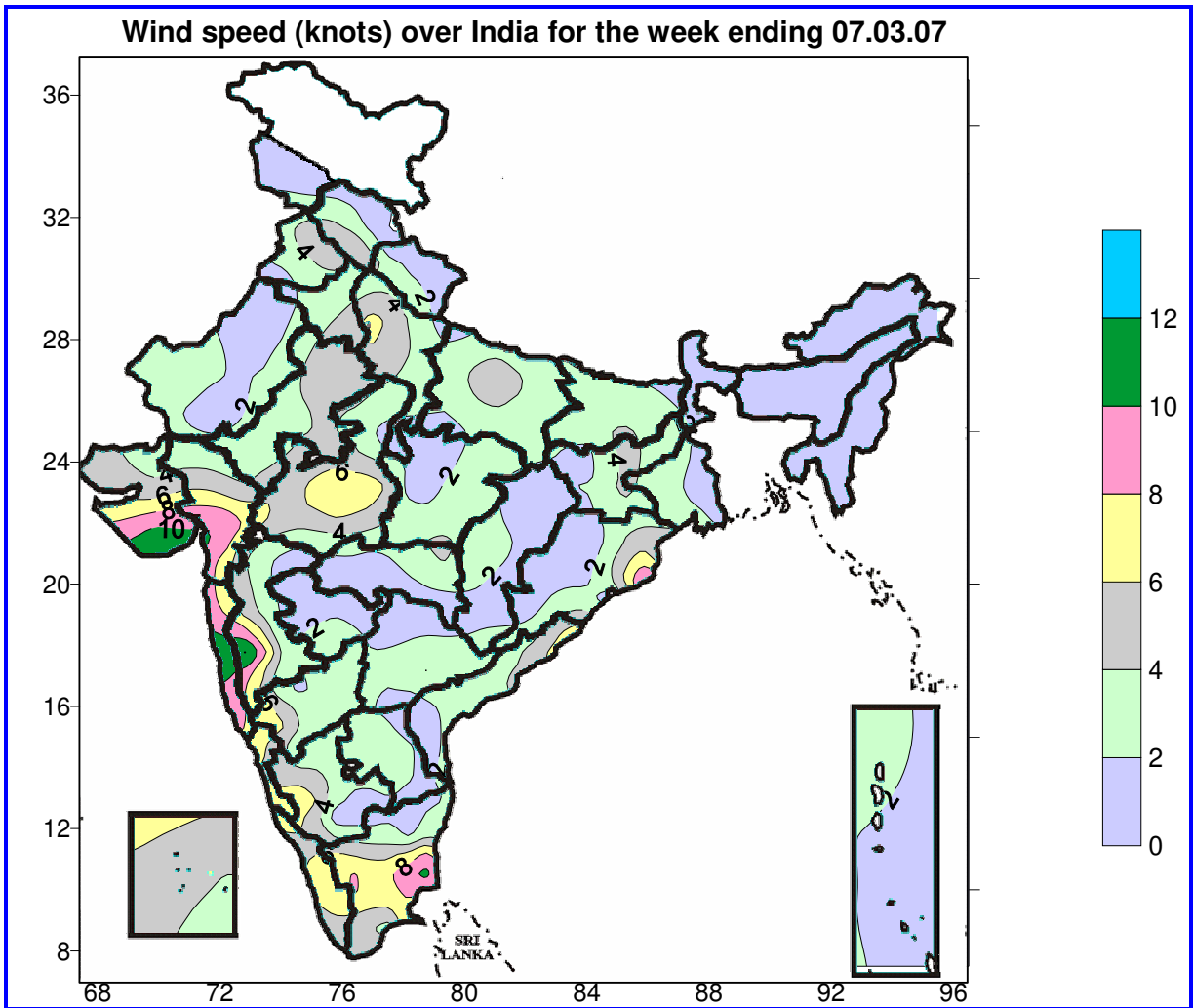


Relative humidity (%) over India for the week ending 07.03.07



Cloud amount (Okta) over India for the week ending 07.03.07





## Desert Locust Forecasting



Rainfall (mm)							
Station Name	01.03.07	02.03.07	03.03.07	04.03.07	05.03.07	06.03.07	07.03.07
Amritsar	NIL						
Barmer							
Sriganganagar							
Jaisalmer							
Kota							
Deesa							
Churu							

<b>Temperature (degree Celcius)</b>							
<b>Station Name</b>	<b>01.03.07</b>	<b>02.03.07</b>	<b>03.03.07</b>	<b>04.03.07</b>	<b>05.03.07</b>	<b>06.03.07</b>	<b>07.03.07</b>
<b>Amritsar</b>	13.5	-	17.0	16.0	17.5	15.0	15.0
<b>Barmer</b>	22.5	19.5	20.0	22.0	24.5	23.5	21.5
<b>Sriganganagar</b>	17.5	16.5	-	19.5	20.5	19.5	19.0
<b>Jaisalmer</b>	19.5	18.0	20.5	23.0	23.0	21.0	22.5
<b>Kota</b>	23.0	20.0	19.5	20.5	21.5	23.0	23.5
<b>Deesa</b>	24.5	20.5	21.5	23.5	24.5	25.5	24.5
<b>Churu</b>	-	-	-	-	-	-	-

There is no chance of locust infestation in Rajasthan and the adjoining areas during this week.

## **CROP – STATE – STAGE**

### **Delhi**

<b>Barley</b>	<b>Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot, and turnip)</b>	<b>Early sown vegetable crops</b>	<b>Wheat</b>	<b>Mustard/Gram</b>
Vegetative	Sowing/ Transplanting	Vegetative/ flowering/ fruiting/ harvesting	Tillering	Seed formation/ Pod formation – in Gram

### **Haryana**

<b>Horticultural crop</b>	<b>Sugarcane</b>	<b>Gram /Lentil</b>	<b>Rabi oilseeds</b>	<b>Wheat</b>
Vegetative	Vegetative	Pod formation	Flowering/Pod formation	Tillering
<b>Toria</b>	<b>Sunflower</b>			
Harvesting	Sowing			

### **Himachal Pradesh**

<b>Wheat</b>	<b>Gram</b>	<b>Summer vegetables (Cauliflower, Cabbage in low and mid hills)</b>	<b>Vegetables (Tomato, brinjal, ladies finger)</b>	<b>Barley</b>
Tillering/Late jointing/Pre-flowering	Flowering (in late sown crops)/ Flowering /Pod formation	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Tillering/Late jointing/Pre-flowering
<b>Onion</b>	<b>Rape seeds and Mustard</b>	<b>Fruit plants</b>		
Vegetative	Flowering/Pod formation	Prune		

### **Jammu & Kashmir**

<b>Vegetable crops</b>	<b>Brown Sarson</b>	<b>Mustard</b>	<b>Pea/Lentil</b>	<b>Wheat / Barley</b>
Flowering/ Fruiting/ Harvesting	vegetative/flowering	Maturity	Maturity	Grain formation/development

### **Punjab**

<b>Sugarcane</b>	<b>Rabi oilseeds</b>	<b>Gram/Lentil</b>	<b>Horticultural crop</b>	<b>Wheat</b>
Sowing	Pod formation	Pod formation	Vegetative	Tillering
<b>Toria</b>	<b>Sunflower</b>			
Harvesting	Early vegetative			

### **Rajasthan**

<b>Mustard</b>	<b>Wheat</b>	<b>Cumin</b>	<b>Gram</b>	<b>Barley</b>
Maturity	Grain development	Seed Maturity	Pod Maturity	Grain Maturity

### **Uttar Pradesh**

<b>Wheat / Barley</b>	<b>Rabi pulses/Summer pulses</b>	<b>Sugarcane</b>	<b>Mango</b>	<b>Winter Vegetables</b>
Grain formation	Maturity/harvesting/Sowing (Moong,Urad)	Harvesting	Flowering / matured tree	Flowering/harvesting
<b>Rabi Oilseeds( Toria, Rai and Mustard)</b>	<b>Summer crop</b>	<b>Summer Vegetables</b>	<b>Early Summer Vegetables</b>	<b>Summer Sunflower</b>
Seed maturity/harvesting	Sowing	Sowing	Seedling	Sowing

### **Uttarakhand**

<b>Apple</b>	<b>Mango/Litchi</b>	<b>Wheat</b>	<b>Sugarcane</b>	<b>Potato</b>
Flowering	Flowering	Flowering/Milky	Sowing	Tuber growth

Assam				
<b>Vegetables/Summer vegetables</b>	<b>Sugarcane</b>	<b>Wheat</b>	<b>Boro Rice</b>	<b>Potato</b>
Harvesting/Sowing	Harvesting	Milk/Dough	Tillering/ panicle initiation / flowering	Harvesting
<b>Pea and Lentil</b>	<b>Arhar</b>	<b>Rape seed and Mustard</b>	<b>Summer Vegetables</b>	<b>Early Ahu rice</b>
Harvesting	Harvesting	Harvesting	Sowing	Nursery preparation

Arunachal Pradesh				
<b>Mustard</b>	<b>Ginger</b>	<b>Potato</b>	<b>Wheat</b>	<b>Summer vegetables</b>
Pod formation/Maturity	Vegetative	Harvesting	Grain formation	Sowing
<b>Foxtail millet</b>	<b>Maize</b>	<b>Direct Seeded Ahu Rice</b>		
Land preparation / sowing	Land preparation / sowing	Land preparation / sowing		

Bihar				
<b>Summer Vegetables</b>	<b>Boro Rice</b>	<b>Wheat</b>	<b>Potato</b>	<b>Rabi Maize</b>
Sowing	Early vegetative/tillering	Flowering/Grain formation	Harvesting	Cob initiation
			<b>Rabi Oil seeds (Sarson, Linseed)</b>	<b>Rabi Pulses (Lentil, Gram, Pea)</b>
			Maturity/Harvesting	Pod formation / maturity

Jharkhand				
<b>Boro rice</b>	<b>Rabi Maize</b>	<b>Wheat</b>	<b>Potato</b>	
Early vegetative/tillering	Cob formation	Grain formation/milking	Tuber formation/Maturity	
<b>Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)</b>	<b>Summer vegetables</b>	<b>Rabi pulses and oilseeds (Gram, masoor, lentil, linseed, oat, mustard and kusum)</b>		
Fruiting/Harvesting	Sowing	Maturity		

Sikkim				
<b>Maize /Ginger</b>	<b>Mustard</b>	<b>Summer vegetables</b>	<b>Wheat</b>	<b>Large Cardomom</b>
Sowing	Siliqua Maturity	Sowing	Grain formation/development	Vegetative

West Bengal				
<b>Boro rice</b>	<b>Sugarcane</b>	<b>Wheat</b>	<b>Rapeseed and Mustard</b>	<b>Gram/ Lentil</b>
Early vegetative / tillering	Cane maturity / harvesting	Milk / dough/ early Maturity	Pod maturity / harvesting	Pod maturity / harvesting
<b>Early transplanted Boro rice</b>	<b>Potato</b>	<b>Sesamum</b>	<b>Groundnut</b>	<b>Green gram</b>
Early vegetative/Tillering	Tuber maturity / harvesting	Sowing	Sowing	Sowing

Chattisgarh				
	<b>Vegetables (Tomato, chilli, brinjal)</b>	<b>Sugarcane</b>	<b>New crops Sugarcane</b>	<b>Wheat</b>
	Vegetative / Flowering/ Fruiting / harvesting	Maturity/Harvesting	Sprouting / early vegetative / vegetative	Dough/Maturity
<b>Sunflower</b>	<b>Early Sown Sunflower</b>	<b>Summer Vegetables</b>	<b>Potato</b>	<b>Early sown Sugarcane</b>
Field preparation / sowing	Germination / early vegetative / vegetative	Sowing	Tuber Maturity/Harvesting	Sprouting/Early vegetative/vegetative
<b>Linseed</b>	<b>Summer sesamum</b>	<b>Green Gram</b>	<b>Summer rice</b>	
Seed maturity/Harvesting	Field preparation/sowing	Field preparation/Sowing	Early vegetative/tillering	

Gujarat				
<b>Kharif Cotton</b>	<b>Wheat</b>	<b>Summer Rice</b>	<b>Castor</b>	<b>Summer Bajra</b>
Picking	Dough/maturity/ Harvesting	Transplanting	Spike formation/Maturity	Land preparation/Sowing
<b>Early Sown Sugarcane</b>	<b>Summer Groundnut</b>	<b>Early sown Groundnut</b>	<b>Sugarcane</b>	<b>New Sugarcane</b>
Sprouting/Early vegetative/Vegetative	Land preparation/sowing	Germination/Vegetative	Harvesting	Planting



Early transplanted Rice	Early sown Bajra			
Early vegetative/Tillering	Germination / early vegetative / tillering			

**Maharashtra**

Sugarcane (Seasonal) (Madhya Maharashtra, Marthwada and Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Wheat (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Gram (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)
cane maturity / harvesting	Grain maturity / harvesting	Head maturity/Harvesting	Dough/Maturity/Harvesting	Pod maturity / harvesting
Rabi Maize (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Rabi Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)
Cob maturity/Harvesting	Seed maturity / harvesting	Early vegetative/active growth	Tuber maturity/Harvesting	Bulb growth /bulb maturity/Harvesting
Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Summer Rice (Konkan, Vidarbha & Kolhapur dist.)	Summer Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Bajra (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Maize (Madhya Maharashtra, Marathwada & Vidarbha)
Germination / early vegetative (Vegetative in Thane, Raigad & Ratnagiri & flowering to Pegging in Sindhudurga district)	Seedling in rice nurseries/Transplanting of seedling – in Vidarbha/tillering – in Thane, Raigad, & Ratnagiri dist. /Flag leaf initiation – in Sindhudurg dist.	Germination/Seedling/Early vegetative	Germination/Seedling/ Early vegetative	Land preparation/sowing

**Madhya Pradesh**

Irrigated Wheat	Mustard	Gram	Masoor	Linseed
Grain maturity	Maturity	Harvesting	Harvesting	Maturity
Wheat				
Harvesting				

**Orissa**

Vegetables	Dalua Rice	Mustard	Pulses	Rabi Groundnut
Flowering / Fruiting / Harvesting	Tillering	Pod formation/ pod maturity	Flowering / pod formation	Pod formation/ Pod maturity
Early sown Sugarcane	Sugarcane	Rabi Groundnut		Early transplanted Dalua Rice
Harvesting	Early vegetive	Field preparation/sowing		Panicle initiation

**Andhra Pradesh**

Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice
Pod maturity	Harvesting	Harvesting	Pod Maturity/Early harvesting	Panicle initiation/Flowering

**Karnataka**

Sugarcane (Ratoon crop)	Rabi Jowar and Wheat	Summer groundnut and Sunflower	Summer rice	
Vegetative	Harvesting	Vegetative	Transplanting ( some places) / Tillering	

**Kerala**

Rubber	Puncha rice			
Tapping	Transplanting – in some areas/vegetative/tillering			

**Tamil Nadu**

Rice (Navarai)	Cotton	Rice fallow Pulses (Blach gram and Green gram)	Oilseeds (Groundnut)	Sunflower
Tillering	Vegetative	Vegetative	Vegetative	Vegetative
Maize	Early planted Sugarcane	Sugarcane (Early season)		
Vegetative	Vegetative	Planting		