



# Summary of Agromet Advisory Services for different States of the country

Issued by

Agricultural Meteorology Division, India Meteorological  
Department, Pune, India

Thursday, 6<sup>th</sup> March, 2008

(For the period 6<sup>th</sup> March to 10<sup>th</sup> March, 2008)

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

## *Agromet Advisory*

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

### **Punjab**

- Mainly dry weather is likely over the State and scattered rain / thundershowers from 9<sup>th</sup> March onwards.

### **Advisories**

- There was no rainfall during last week in the State and mainly dry weather is likely over the State for next three days. Under these circumstances, apply irrigation to the standing crops.
- Monitor the sugarcane crop for shoot borer infestation & if exceeds economic threshold level, for effective control spray Endosulfan 50 EC @ 600 ml in 600 liter of water/acre.
- Late blight of potato has been observed in pockets. If required, spray Ridomil MZ or Curzate@700 g per acre in 250 -350 liter of water.
- Continue sowing of short duration sunflower hybrids. Apply 15 kg Nitrogen/ha in early sown crop.
- Prepare field and undertake sowing of spring sugarcane crop as delayed sowing may affect yield.

### **Haryana**

- Mainly dry weather is likely over the State and scattered rain / thundershowers from 9<sup>th</sup> March onwards.

### **Advisories**

- As there was no rainfall during last week and mainly dry weather is likely over the State for next three days. Under these circumstances, apply irrigation to sugarcane, *rabi* oilseeds, pulses, wheat and Horticultural crops.
- Monitor the sugarcane crop for shoot borer infestation & if exceeds economic threshold level, for effective control, spray 600 ml Endosulfan 50 EC in 600 liter of water/acre.
- Continue sowing of short duration sunflower hybrids. Apply 15 kg Nitrogen/ha to early sown crops.
- Prepare field and undertake sowing of spring sugarcane crop as delayed sowing may affect yield.

### **Rajasthan**

- Weather remained dry in all divisions of the State.
- Isolated rain / thundershowers are likely over the State from 9<sup>th</sup> March onwards.

### **Advisories**

- Apply irrigation to *rabi* crops viz., wheat, potato, mustard, barley, taramira and gram as there was no rainfall in the State during last week and mainly dry weather is likely for the next three days.

- Monitor gram for pod borer and undertake plant protection measures if the pest population crosses ETL.

### **Uttar Pradesh**

- Mainly dry weather is likely over west UP and scattered rain / thundershowers from 9<sup>th</sup> March onwards. Isolated rain / thundershowers are likely over East Uttar Pradesh, during next 24 hrs and mainly dry weather thereafter.

#### **Advisories**

- As no significant rain is likely to occur over the State for next three days, apply irrigation to wheat, vegetable, pulses, rai, and mustard crops.
- To control rot disease in onion spray the solution of carbendazim 0.1% in onion.
- Harvest the matured sugarcane, winter vegetables, turmeric and potato.
- To control pod borer in gram, spray the solution of Monocrotophos 750 ml or NPV 250 LE.
- Continue field preparation and sowing of spring sugarcane and summer vegetables.

### **Himachal Pradesh**

- Isolated rain / thundershowers are likely over the State during next 48 hours and increase thereafter.

#### **Advisories**

- As there was no rain during last week in all of the districts of the State and rain is likely only at isolated places for next 48 hours, apply irrigation to vegetables, potato, toria, rapeseed, mustard, wheat, barley and gram.
- Remove smut infected plants of wheat from the field and destroy completely to avoid further spread of the disease.
- There is mild chance of attack of leaf spot disease in cabbage and cauliflower. If attack crosses economic threshold level, spray Dithane M – 45 to control the disease.
- Monitor oilseeds for aphids and if 50 aphids or 4 mm aphid infestation level per central shoot is noticed, spray 750 ml cypermethrin 10 EC or 750 ml methyl demeton 25 EC or 750 ml Dimethoate 30 EC or 1.5 litre Formothion 25 EC or 200-250 ml Phosphamidon in 750 L water / ha.
- Continue the pruning/trimming of the apple plants in the presence of experts. The cut-end of the branches more than pencil thickness should not be allowed to remain naked but have to be covered with Bordeaux paint or copper oxy chloride paint. The twigs/branches infected with diseases like canker may be pruned at least two- three inches beyond the infected portion and burned it at the earliest.

### **Uttarakhand**

- Mainly dry weather is likely over the State and scattered rain / thundershowers from 9<sup>th</sup> March onwards.

#### **Advisories**

- As no significant rain is likely to occur over the State for next three days, apply irrigation to wheat.
- Undertake intercultural operations in orchards to keep the field weed free.
- Undertake harvesting of matured sugarcane.
- Undertake sowing of potato in hilly areas.

### **Jammu & Kashmir**

- Isolated rain/thundershowers are likely over the State during next 48 hours and increase thereafter.

## **Advisories**

- Due to low minimum temperature, farmers are advised to arrange for smoking in the field to prevent the crops from cold injury.
- Monitor tomato, brinjal, cabbage and cauliflower for virus infection. Rouge out virus affected plants and destroy completely.
- Monitor mustard for aphids attack in Jammu division and to control the pest spray the crop with Phosphamidon @ 0.03% or Metasystox @ 0.03% when 50 to 60 aphids per 10 cm terminal shoot are infected.
- Monitor potato for late blight and rouge out the affected plants and destroy to prevent further spread.
- Continue sowing of vegetables like bhindi, beans and cucurbits during these days and nursery sowing of tomato, brinjal and chillies crop in Jammu division.
- Preparation of hot beds for early raising of vegetable seedlings such as capsicum, chillies, brinjal, paprika etc. and filling of polybags for sowing of cucurbits under polyhouse conditions may be started in Kashmir division
- Apply second dose of urea as 3% foliar spray in wheat and barley in Jammu division.
- Undertake thinning of brown sarson and hoeing and weeding of wheat in Kashmir division.
- It is optimum time for transplanting of poplar from nursery to field area during these days in Jammu division. Pruning in grapevine, phalso, peach and plum crop. Keep the orchard free from weeds by intercultural operation. Farmers can also plan for plantation of new orchards during these days. Apply nitrogenous fertilizer in orchards.

## **Delhi**

- Mainly dry weather is likely over the State and scattered rain / thundershowers from 9<sup>th</sup> March onwards.

## **Advisories**

- As there was no rainfall in the State during last few weeks and no rain is likely to occur over the State for the next three days, apply irrigation to vegetables, mustard, gram, barley and wheat.
- Apply remaining dose of N in one month old crops of onion and tomato.
- Prepare land and undertake sowing of Purvani Kranti, Pusa Savnee and Pusa Sadabahar varieties of ladies finger.
- There is mild chance of attack of red pumpkin beetle on cucurbits. If infestation of red pumpkin beetle is noticed on cucurbits, apply carbaryl 50 WP @ 750 – 1000 g per ha.

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

### **Kerala**

- Mainly dry weather is likely over south Kerala and Lakshadweep during next 24 hours and isolated rain/thundershowers thereafter. Mainly dry weather is likely over rest of the State.

### **Advisories**

- As there was no significant rainfall during last week and mainly dry weather during next 24 hours and rain/thundershowers are likely only at isolated places over south Kerala there after, apply irrigation to plantation crops viz., coconut, arecanut, rubber and banana.
- Attack of leaf eating caterpillar, coried bug, leaf rot and stem bleeding is reported in coconut. As a prophylactic measure affected leaves may be cut and burnt and release larval and pupal parasitoids to control leaf eating caterpillar. Spray sevin @ 4 gm. per lit of water to control coried bug. To control leaf rot spray Bordeaux mixture or 0.5% copper oxychloride formulation or 0.4% mancozeb. In the leaf rot affected plants, remove the rotten portions from the spear and the two adjacent leaves and pour 300 ml. of fungicidal solution at the base of the spear which can be prepared by mixing 2 ml of hexaconazole 5

EC or mancozeb 3 g in 300 ml of water. To control stem bleeding, chisel out completely the affected tissues and paint the wound with tridemorph 5%. Apply coal tar after 1-2 days. Root feed with tridemorph 5% to prevent further spread of lesions.

- Attack of pseudo stem weevil, banana rhizome weevil and bunchy top disease is reported in banana. Adopt strict field sanitation. If the attack is severe spray Quinalphos @ 0.05%. Spraying / drenching may be done on the leaf axils, rhizome, surrounding soil and all around the entire pseudo stem. Apply 12.5 g Phorate 10G or 10 g Carbofuran 3G per plant in leaf axil or 25 g Phorate or 20 g Carbofuran per pit in soil, 70 days and again 165 days after planting to control bunchy top disease.
- Continue land preparation and nursery preparation of pepper.
- Attack of rice bug is reported in *puncha* rice. If the infestation is found severe, spray Malathion 50 EC @ 2 ml in one litre of water.

### **Tamilnadu**

- Rainfall occurred at one or two places over South Tamilnadu, dry weather prevailed over North Tamilnadu on 4<sup>th</sup> March and dry weather prevailed over the State on 3<sup>rd</sup> and 5<sup>th</sup> March.
- Rain / thundershowers are likely at a few places over South & coastal Tamil Nadu and isolated over rest region of the State.

### **Advisories**

- Apply irrigation to groundnut, sugarcane and pulse crops as there was no rainfall during last week and rain/thundershowers is likely only at a few/isolated places in the State for the next three days.
- Monitor sugarcane for shoot borer and if the pest population crosses ETL, undertake spraying of Endosulfan 35 EC or Monocrotophos 40 EC @ 1.5 litres/ha. Release parasite @ 1 cc per time for stem borers after 15 days of spraying. Release parasite @ 1 cc per time for the control of stem borers. Plant protection measures may be undertaken on a non rainy day in south and coastal Tamil Nadu.
- Undertake intercultural operations in the standing crops to keep the field weed free. Intercultural operations may be undertaken on a non rainy day in south and coastal Tamil Nadu.

### **Karnataka**

- Dry weather prevailed over the State on all days.
- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no rainfall in the State during last few weeks and mainly dry weather is likely for the next three days, apply irrigation to sugarcane and early sown summer crops.
- Undertake intercultural operations in sugarcane and early sown summer crops to keep the field weed free and propping to prevent the crop from lodging.
- Continue harvesting of matured *rabi* sunflower, cotton and maize crops.
- Continue land preparation and nursery sowing of summer rice.

### **Andhra Pradesh**

- Mainly dry weather prevailed over the State.
- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no rainfall in the State during last few weeks and mainly dry weather is likely for next three days, apply irrigation to red gram, groundnut, black gram and chillies.
- Prevailing weather conditions are congenial for incidence of blast in rice. Monitor the crop and spray Tricyclazole @ 0.6 g per litre of water as soon as the disease symptoms are

noticed. To prevent the incidence of paddy stem borer in nursery apply Carbofuran @ 160 g per cent of nursery.

- Monitor black gram for *Maruca* pod borer and if the pest population crosses ETL, spray Dichlorvas @ 1 ml + Lamda Cyhalothrin @ 2 ml or Dichlorvas 1 ml + Chlorpyrifos @ 2.5 ml per litre of water.
- To control incidence of thrips in groundnut spray Monocrotophos @ 1.6 ml or Dimethoate @ 2 ml per litre of water if the crop is between 15-40 days. As the prevailing conditions are congenial for the incidence of rust and late leaf spot in 70-80 days old crop and if noticed spray Mancozeb @ 2 gm or Hexaconazole @ 2 ml per litre of water.

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

### **Assam**

- Light to moderate rain occurred at many places on 5<sup>th</sup> March, at a few places on 4<sup>th</sup> March and weather was mainly dry over the State on 3<sup>rd</sup> March.
- Isolated rain / thundershowers are likely over the State.

### **Advisories**

- As there was no significant rain during last week in most of the district of the State and rain / thundershowers are likely only at isolated places for next three days, apply irrigation to wheat.
- Maintain 3 – 5 cm of water in *boro* rice field.
- Continue harvesting of already matured crops of potato, arhar and other *rabi* crops.
- For control of leaf blight and leaf spot diseases of wheat, Dithane Z-78 @ 2.5 gm per litre of water may be sprayed. Crops affected by aphids and stem borer should be sprayed with Dimecron 100-EC @ 1.5 ml per litre of water.
- Monitor *boro* rice for blast disease. As soon as one or two spots on leaves are seen, Hinosan 50 EC @ 1 ml or Blitox 4 g per litre of water is to be sprayed and spraying is to be continued till the disease is controlled. For control of Sheath blight disease apply bavistin @ 1gm per litre of water. For control of pests like Hispa, brown plant hopper etc., insecticide like Chloropyphos 20 EC @ 1.5 ml or Phosphamidon @ 1ml per litre of water is to be sprayed.
- Land should be thoroughly prepared and farm yard manure should be applied for sowing of summer vegetables like ladies finger, cucumber and ridge gourd. Also seed should be collected from reputed sources. Apply 14Kg urea, 35 Kg SSP and 8 Kg MOP per bigha.
- Land should be thoroughly paddled for seed bed preparation of early *ahu* rice. Seed bed of 10 m length and 1.25 m breadth with 36 cm gap between two beds should be prepared. In each bed 20-30 kg cow dung or compost manure, 80 g urea, 80 g single super phosphate and 40 g MOP are to be applied. Well germinated seeds of varieties Pusa-2-21, IR-8, IR-36, Ratna, Kaveri Jaya, IR -50 etc. are to be sown @ 650-1000 g per bed.
- Land is to be ploughed and laddered 5-6 times to obtain a fine bed for sowing of jute. In termite and cricket infested field the soil is to be treated with malathion 5% dust @ 30 kg per hectare. Varieties of capsularies such as JRC 212, JRC 321, JRC- 7447, UPC-94 etc. should be collected from reputed sources and sown in line at a spacing of 25 cm row to row and 5-7 cm plant to plant. Seeds @ 800-900 gm are required for sowing one bigha. Cow dung or compost manure should be applied one quintal per bigha during land preparation and urea @ 12 kg, SSP @ 20 kg and MOP @ 7 kg per bigha need to be applied.

### **Arunachal Pradesh**

- Rain / thundershower occurred at a few places.
- Isolated rain / thundershowers are likely over State.

### **Advisories**

- As there was no significant rainfall during last week and isolated rain/thundershowers are likely during next three days over the State, apply irrigation to wheat, and mustard.
- Harvest the matured crops of pea, ginger, vegetables and *rabi* maize.
- Undertake weeding and hoeing in wheat, and mustard to keep the field weed free.
- Farmers are advised to start sowing of summer vegetables like ladies finger, cucurbits / pumpkin etc.

### **Bihar**

- Isolated rain/thundershowers are likely over the state during next 24 hrs and mainly dry weather thereafter.

### **Advisories**

- As isolated rain/thundershowers are likely over the State during next 24 hrs and mainly dry weather thereafter, apply irrigation to vegetables, arhar, wheat, gram, fodder maize and sugarcane.
- Monitor potato for late blight disease, if the symptoms are noticed, spray Ridomil MZ @ 2 kg/ha as first spray.
- Monitor rai / sarson crop for aphid attack. To control aphids, spray Methyl demeton 25 EC or Quinphos 25 EC @ 1 liter/ha.
- Monitor the gram crop for pod borer, to control the pest spray Endosulphan @ 1.5 lit/ha.

### **Jharkhand**

- Weather remained dry over the State.
- Mainly dry weather is likely over the State.

### **Advisories**

- Apply irrigation to the vegetables, wheat, mustard and gram as mainly dry conditions are likely over the State during next three days.
- Prepare field and undertake sowing of summer vegetables.

### **Sikkim**

- Moderate rainfall occurred at many places over East Sikkim on 4<sup>th</sup> March and light to very light rainfall occurred at a few places on 3<sup>rd</sup> & 5<sup>th</sup> March. Otherwise weather was mainly dry during the period. Rainfall was scanty during the week.
- Isolated rain / thundershowers are likely over the State during next 24 hrs and mainly dry weather thereafter.

### **Advisories**

- As there was no significant rainfall during last few weeks and only isolated rain/thundershowers is likely over the State for the next 24 hours, apply irrigation to orange, large cardamom, wheat, and mustard.
- Keep mustard fields free from Satyanashi weed and wheat fields free from Hirankhuri weed.
- Monitor large cardamom for Chirkey and Foorkey and infected plants may be destroyed by uprooting/burial at regular intervals. Regular inspection may be carried out to observe caterpillar/ shoot borer incidence and may be hand picked and destroyed mechanically.
- Monitor orange for trunk borer and remove the affected portion and pluck the holes made by the insect with mud.
- Continue land preparation and sowing of maize. Line sowing must be done and recommended FYM/Organic Manure/Compost should be applied in the field before sowing.

### **West Bengal**

- Isolated rain/thundershowers are likely over Sub-Himalayan West Bengal during next 24 hrs and mainly dry weather thereafter. Mainly dry weather is likely over rest of the State.

### **Advisories**

- As there was no significant rainfall during last week in most of the districts of the State and no significant rain is likely to occur during next three days, apply irrigation to *rabi* arhar, mustard, rapeseed, gram, lentil and wheat.
- Maintain 3 – 5 cm standing water in *boro* rice field. Apply 25 kg N / ha at 3 weeks after transplanting of rice and rest 25 kg N / ha at 6 weeks after transplanting under weed free condition and thin film of water. Maintain 3 – 5 cm of water after 48 hours of application of N.
- Harvest already matured crops of sugarcane, potato, rapeseed, mustard, lentil and gram.
- Keep vigilance against occurrence of blast disease in *boro* rice. If this disease appears at least one leaf or 25% of the leaves of the plant, then spray water soluble Ediphenphos 50% @ 1 ml or Triamiphos 48% @ 1 ml or Carbendazyme 50% @ 1 gm or Tricyclogol 75% @ 0.5 ml per litre of water. 750 litre of water is required for spraying 1 hectare of land. Keep vigilance against attack of stem borer. Chemicals may be applied under attack of at least 1 larvae or matured pest per hill.
- Prepare land and continue sowing of sesamum. Select varieties from Rama, Tilottama, HT-1 etc. for sowing. Adopt seed rate of 6 – 7.5 kg / ha. Apply 30 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O each / ha at the time of land preparation. If sesamum is sown after harvesting of potato, application of fertilizer may not be required as the crop can be grown with residual fertility of soil.
- Prepare land and continue sowing of groundnut. Improved varieties like JL-24, J-11, A.K-12-24 can be sown. Seedrate is 110-125 kg per ha.
- Prepare land and continue sowing of green gram. Chaitali moong may be sown now and select varieties from K-851, Panna, Sonali, Pusha Baishakhi etc. Seedrate is 25-30 kg per ha.

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

#### **Gujarat**

- Mainly dry weather is likely over the State.

#### **Advisories**

- As there was no rain during last few weeks over the State and mainly dry weather is likely to prevail for next three days, apply irrigation to sugarcane, wheat and early sown summer groundnut.
- Maintain 3 – 5 cm water wherever summer rice is at tillering stage. Apply 30 kg N / ha at 3 weeks after transplanting.
- Apply 75 kg Nitrogen / ha as top dressing after 45 days from plating of sugarcane.
- Monitor for pest and diseases in cotton. If population of sucking pests like aphids, jassids, thrips in cotton crosses economic threshold level, spray methyle dematon 25% EC @ 10 ml or phosphamidon 85% EC @ 5 ml or dimethioate 30% @ 10 ml in 10 litre of water.
- Prepare land for sowing of summer groundnut with assured irrigation facilities. Apply 25 kg N and 50 kg P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O each at the time of land preparation. Select high yielding varieties from J-11, GG – 2, 4, 6, TG – 26 etc. for sowing.

#### **Chhattisgarh**

- Dry weather prevailed in all divisions of State.
- Mainly dry weather is likely over the State.

#### **Advisories**

- As there was no rainfall during last week in all the districts of the State and mainly dry weather is likely for next three days, apply irrigation to sugarcane, vegetables, wheat, potato and other *rabi* crops and sunflower and groundnut.
- Apply 25 kg N / ha at 3 weeks after transplanting of summer rice and remaining 25 kg N / ha at 6 weeks after transplanting. Drain out water from the field before application of fertilizer and maintain 3 – 5 cm standing water after 48 hours of application of fertilizer.

- Aphids were observed in mustard, safflower and vegetable crops, hence, it is advised to monitor the crops and if necessary spray Endosulphon or Metasystox @ 2 ml / liter of water.
- There is mild chance of attack of jhulsa disease in tomato and potato. If infestation crosses economic threshold level, apply metalaxyl @ 2 g / litre of water.
- Prepare land and undertake sowing of summer vegetables with assured irrigation facilities.
- Prepare land and start sowing of green gram and sesame.

### **Maharashtra**

- Mainly dry weather prevailed over the State.
- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no rainfall in the State during last few weeks and no rain is likely to occur over the State for the next three days, apply irrigation to sugarcane (Pre-seasonal), sugarcane (*suru*), *rabi* jowar, safflower, gram, onion, wheat and maize.
- Harvest already matured crops of *kharif* tur, *rabi* jowar and gram.
- Apply 136 kg N / ha (4<sup>th</sup> split) after 12 – 16 weeks after planting of sugarcane (pre-seasonal). Also apply 85 kg Potash and phosphorus each / ha.
- Mild incidence of white woolly aphids in Ahmednagar & Pune districts in Sugarcane (pre-seasonal) & sugarcane (*Suru*) is reported.
- Monitor the Sugarcane (pre-seasonal) & sugarcane (*Suru*) for White Woolly Aphids & if exceeds economic threshold level, for effective control spray 500 ml Endosulphan 35%+ Metasystox 1000 ml & 500 ml Sticker or 500 gm detergent powder / ha in 500 liters of water. For the biological control of White Woolly Aphids, release 25000 larvae of *Chrysoperla carnea* or *Dipha aphidivora* / ha as predator after 15 days from the above dose.
- For the protection of blossom in mango, release 10000-15000 *Chrysopha carnea* predators / ha on trees or spray the mixture of Verticillium lacanae fungicide 4 g / litre of water or 5% neem seed extract.

### **Madhya Pradesh**

- Dry weather prevailed over the State during the period.
- Mainly dry weather is likely over the State.

### **Advisories**

- As mainly dry weather is likely over the State, apply irrigation to sugarcane and wheat.
- Undertake intercultural operation in sugarcane to keep the field weed free.
- Harvest the matured gram, wheat, lentil, mustard, masoor and linseed crops.

### **Orissa**

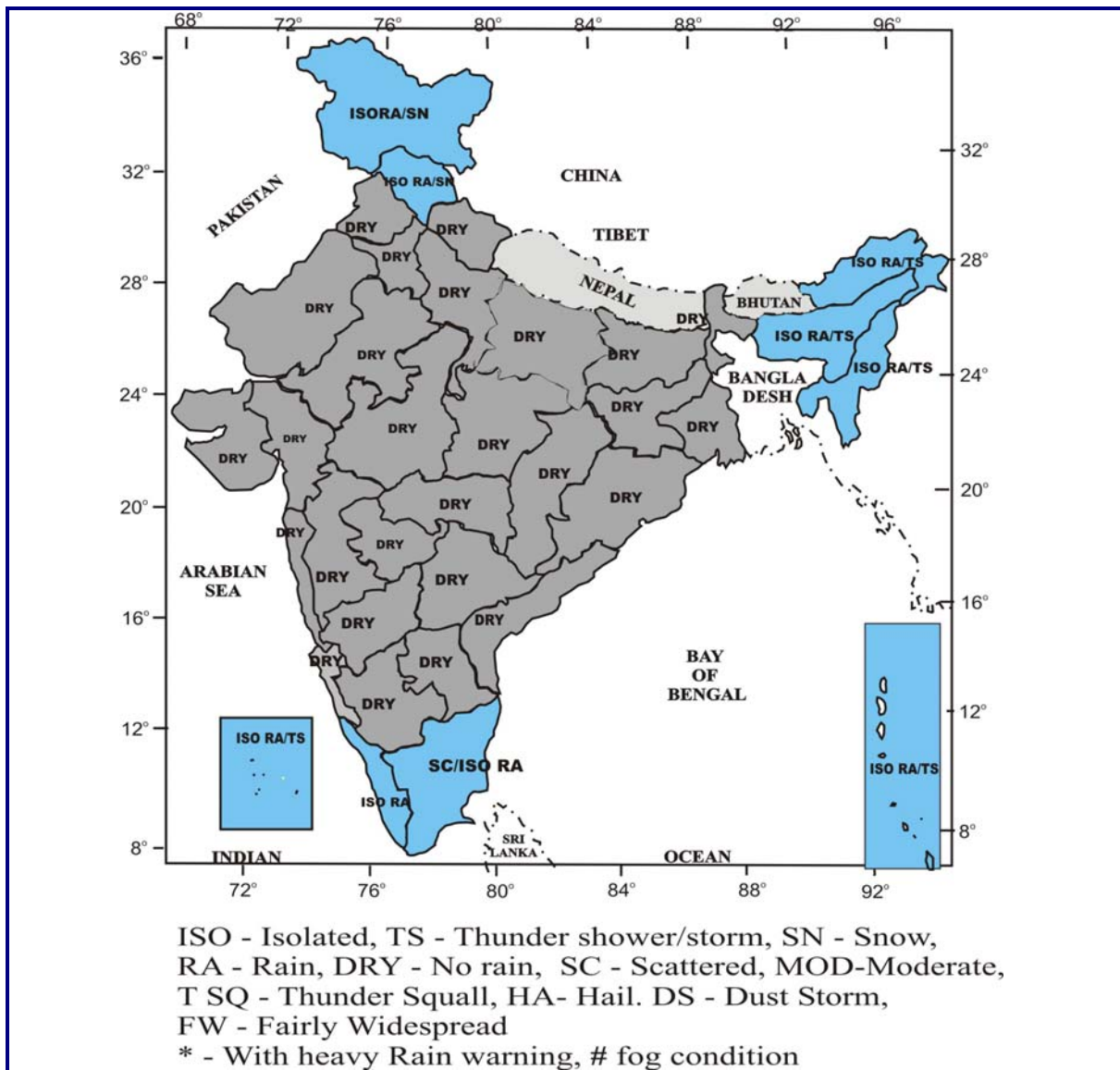
- Weather was mainly dry.
- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no rainfall during last week and mainly dry weather is likely to occur for next three days over the State, apply irrigation to vegetables, pulse crops and early sown sugarcane.
- Complete transplanting of *dalua* rice.
- There is mild chance of occurrence of aphids in vegetables. If population crosses economic threshold level, spray dimethoate or methyl demeton @ 2 ml per litre of water.
- Harvest the matured oilseed crops.



## *Forecast Valid upto 9<sup>th</sup> March, 2008*



### *Salient weather features for the week ending 05/03/08*

#### **METEOROLOGICAL ANALYSIS**

- Easterly waves affected Andaman & Nicobar Islands and extreme south Peninsula during the week.
- A western disturbance as an upper air system lay over north Pakistan & neighbourhood on 29<sup>th</sup> February and over north Pakistan and adjoining Jammu & Kashmir during 1<sup>st</sup>-3<sup>rd</sup> March. It lay over Jammu & Kashmir & neighbourhood on 4<sup>th</sup> and moved away eastwards on 5<sup>th</sup>. An induced cyclonic circulation extending upto 2.1 km above mean sea level (amsl) lay over central Pakistan & neighbourhood on 1<sup>st</sup> March; south Pakistan & neighbourhood on 2<sup>nd</sup> and became less marked on 3<sup>rd</sup> March.
- A cyclonic circulation extending upto 3.1 km amsl lay over Bangladesh and neighbourhood on 1<sup>st</sup> & 2<sup>nd</sup> March and over Gangetic West Bengal and neighbourhood on 3<sup>rd</sup>. It persisted over the same region extending upto 0.9 km amsl on 4<sup>th</sup> & 5<sup>th</sup> March.
- A cyclonic circulation lay over north Chhattisgarh and neighbourhood on 4<sup>th</sup> extending upto 1.5 km amsl. It became less marked on 5<sup>th</sup>.
- A cyclonic circulation lay over Sub-Himalayan West Bengal & Sikkim and neighbourhood at 1.5 km amsl on 4<sup>th</sup> and over Assam & neighbourhood extending upto 1.5 km amsl on 5<sup>th</sup>.

#### **RAINFALL / SNOWFALL**

Under the influence of the above systems:

- Isolated /scattered rain/thundershower occurred over Andaman & Nicobar Islands, Tamil Nadu and Kerala on many days of the week.
- Isolated rain/thundershowers occurred over Jammu & Kashmir during 3<sup>rd</sup>-5<sup>th</sup>.
- Isolated rain/thundershower occurred over Arunachal Pradesh, Assam & Meghalaya on 28<sup>th</sup>. A fresh spell of rain/thundershower commenced from 3<sup>rd</sup> March 2008 with isolated rain/thundershower activity over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya. The rain/thundershower activity was scattered over the above sub-division and isolated over Nagaland, Manipur, Mizoram & Tripura on 4<sup>th</sup> & 5<sup>th</sup>.
- Isolated rain/thundershowers occurred over Gangetic West Bengal and north coastal Orissa on 5<sup>th</sup>.
- Mainly dry weather prevailed over remaining parts of the country during the week.

#### **FOG**

Isolated fog conditions in the morning hours developed over Punjab and Haryana during the week.

#### **MINIMUM TEMPERATURE**

- The minimum temperatures were below normal by 2-3°C over many parts in the plains of northwest India, Saurashtra & Kutch, East Rajasthan and north Madhya Pradesh in the beginning of the week. With the gradual rise in temperature, they were above normal by 2-5°C over these regions during 2<sup>nd</sup>-5<sup>th</sup>.
- They were above normal over West Rajasthan by 2-6°C during the week.
- They were below normal by 2-4°C over remaining parts of west and central India and northern parts of the interior Peninsula during many days of the week.
- They were below normal by 2-5°C on 28-29<sup>th</sup> February and 4-5<sup>th</sup> March over southeast Peninsula covering Tamil Nadu, Rayalaseema & South Interior Karnataka.
- They were below normal by 2-4°C over many parts of East India excluding coastal Orissa, West Bengal & Sikkim during 28<sup>th</sup> February to 2<sup>nd</sup> March and were near normal thereafter. They were below normal by 2-3 °C over West Bengal & Sikkim and northeastern States during 28-29<sup>th</sup> Feb and were near normal thereafter.
- They were near normal over remaining parts of the country during the week.

#### **MAXIMUM TEMPERATURE**

- The maximum temperatures were above normal by 2-8°C over northwest India, Rajasthan, Gujarat and central India during many days of the week.
- They were also above normal by 2-3°C over northeastern States and some parts of east India on a few days of the week.
- They were nearly normal over the remaining parts of the country during the week.

#### **RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 5<sup>TH</sup> MARCH, 2008)**

Rainfall was excess/normal in 5, deficient/scanty in 3 and no rain in 28 out of 36 meteorological sub-divisions (Actual: 1.2 mm, Normal: 5.1 mm and Departure: -76 %).

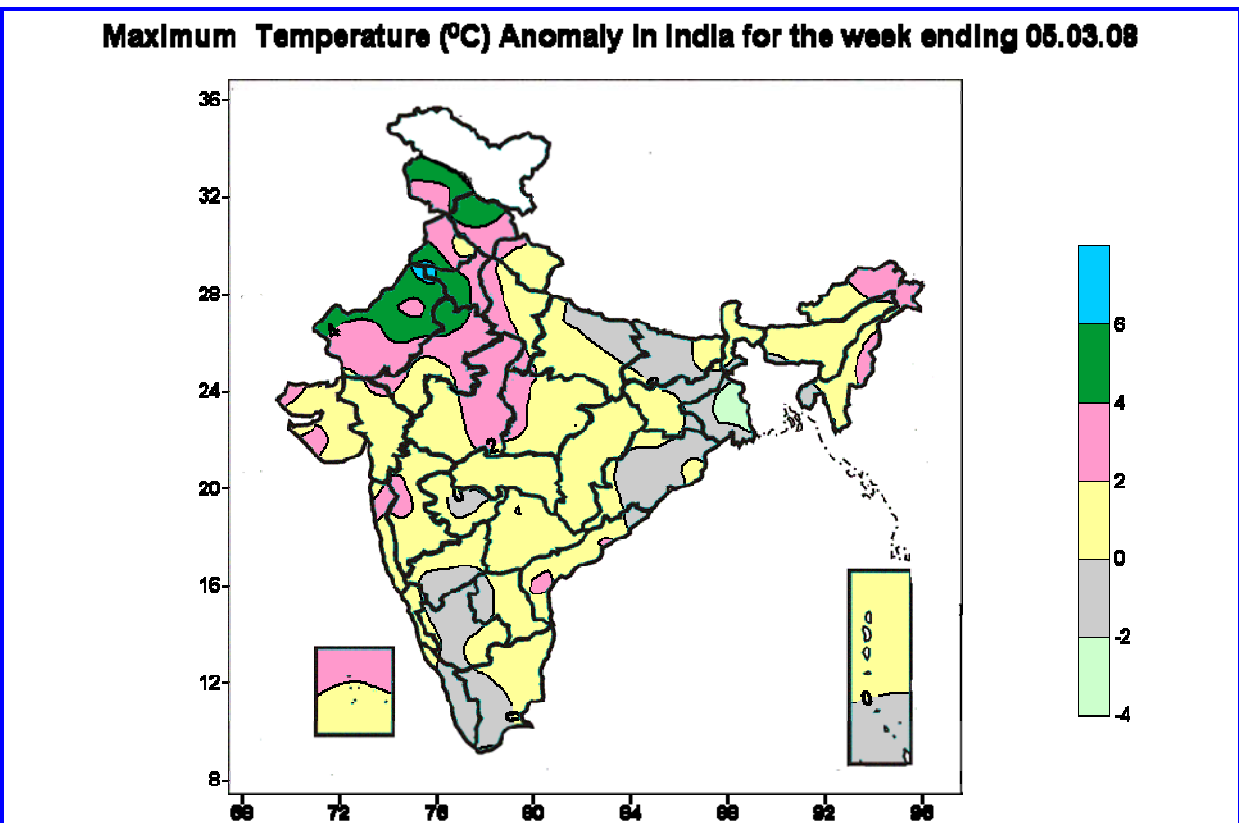
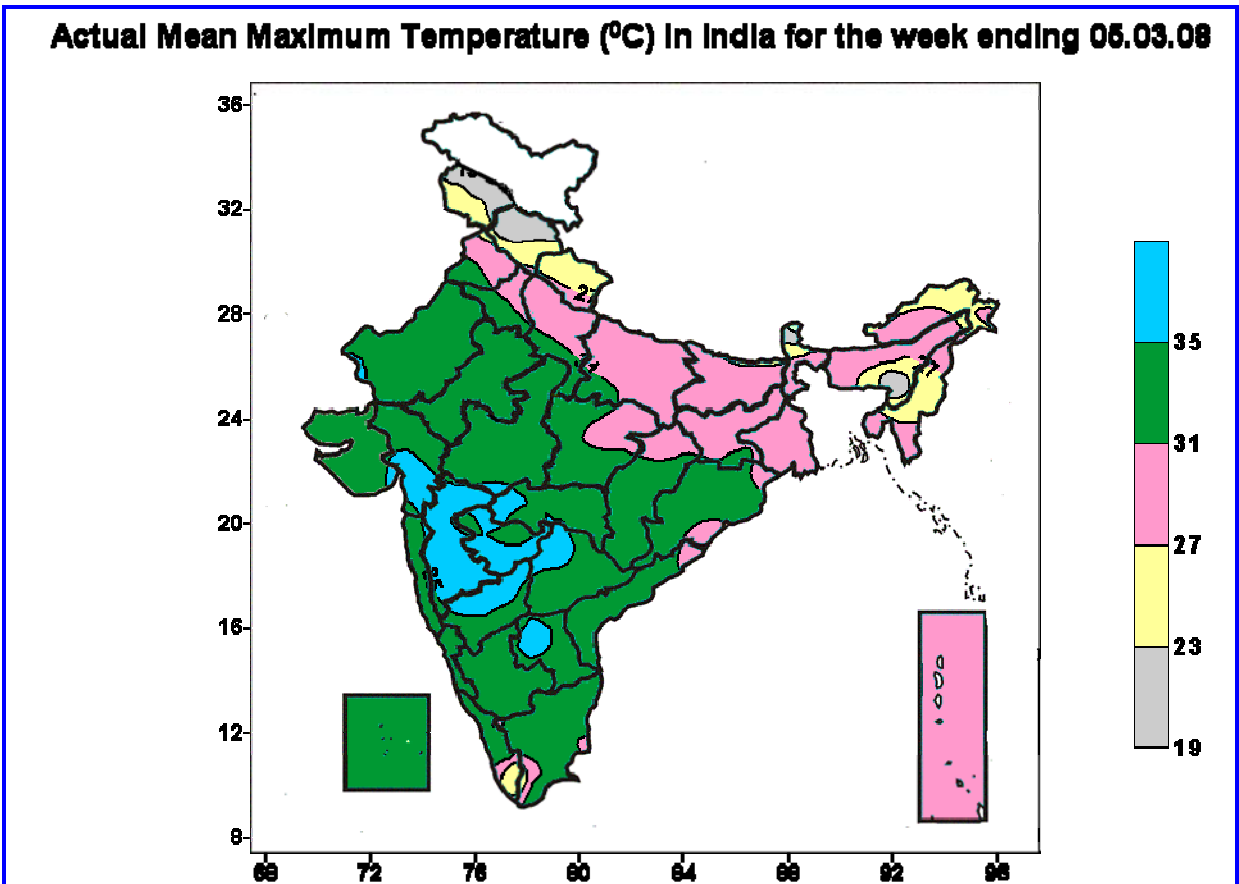
#### **CUMULATIVE SEASONAL RAINFALL (1<sup>ST</sup> JANUARY TO 29<sup>TH</sup> FEBRUARY, 2008)**

Rainfall was excess/normal in 16, deficient/scanty in 18 and no rain in 2 out of 36 meteorological sub-divisions. (Actual: 42.6 mm, Normal: 43.2 mm and Departure: -1%).

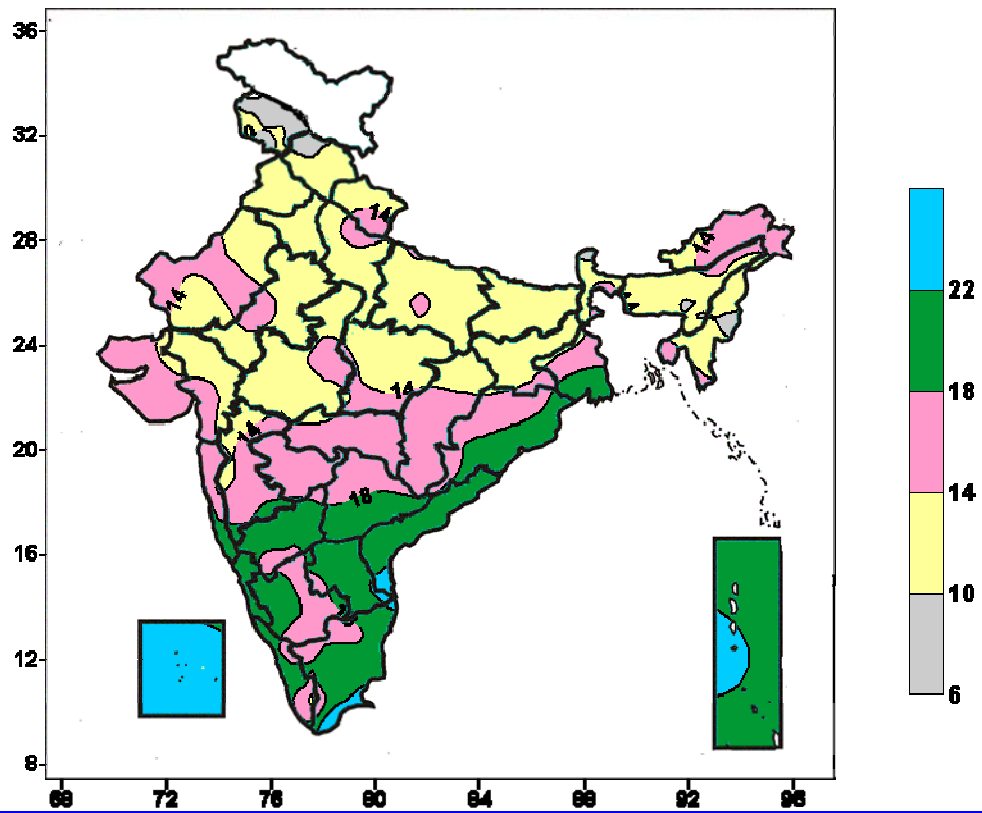
#### **OUTLOOK FOR THE WEEK ENDING ON 12<sup>TH</sup> MARCH, 2008.**

- Under the influence of the western disturbance, isolated to scattered precipitation is likely to commence over Jammu & Kashmir and Himachal Pradesh from 6<sup>th</sup> with increase in activity from 9<sup>th</sup>. Isolated to scattered rain/thundershowers are also likely over remaining parts of northwest India and Rajasthan commencing from 9<sup>th</sup>.
- Decrease in maximum temperature over the plains of northwest India, Rajasthan and adjoining central India from 9<sup>th</sup>.
- Isolated to scattered rain/thundershower are likely over Andaman & Nicobar Islands and extreme south peninsula.
- Decrease in rain/thundershower activity over northeast India.

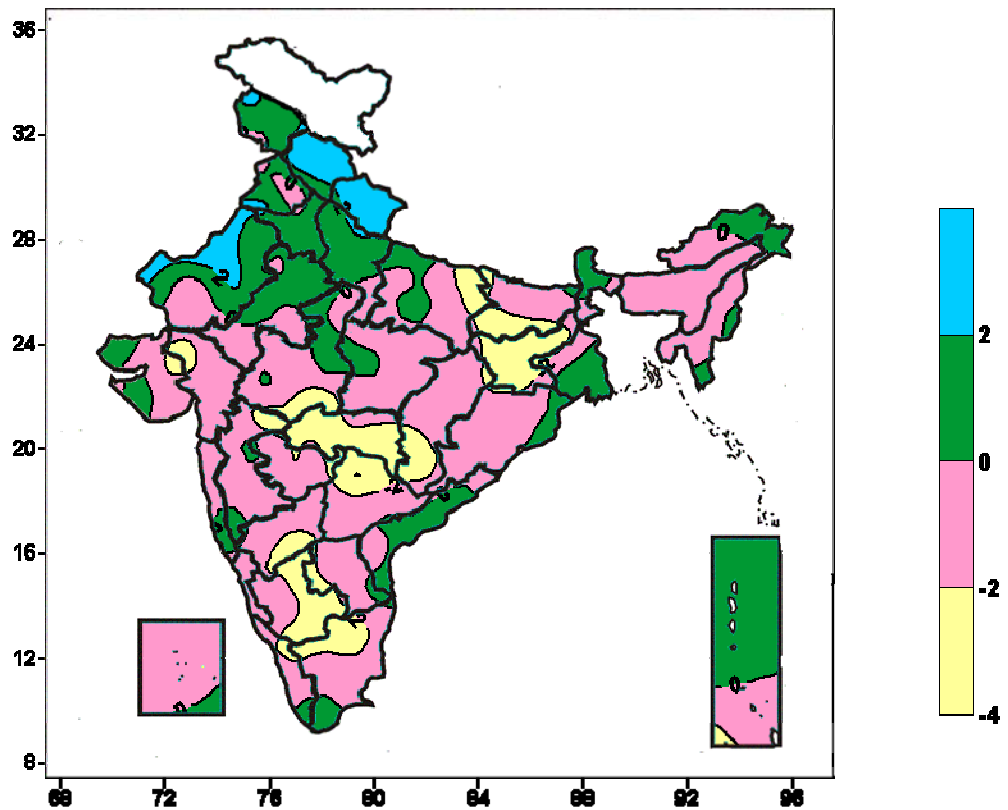
# Contour maps for the week ending 5<sup>th</sup> March, 2008



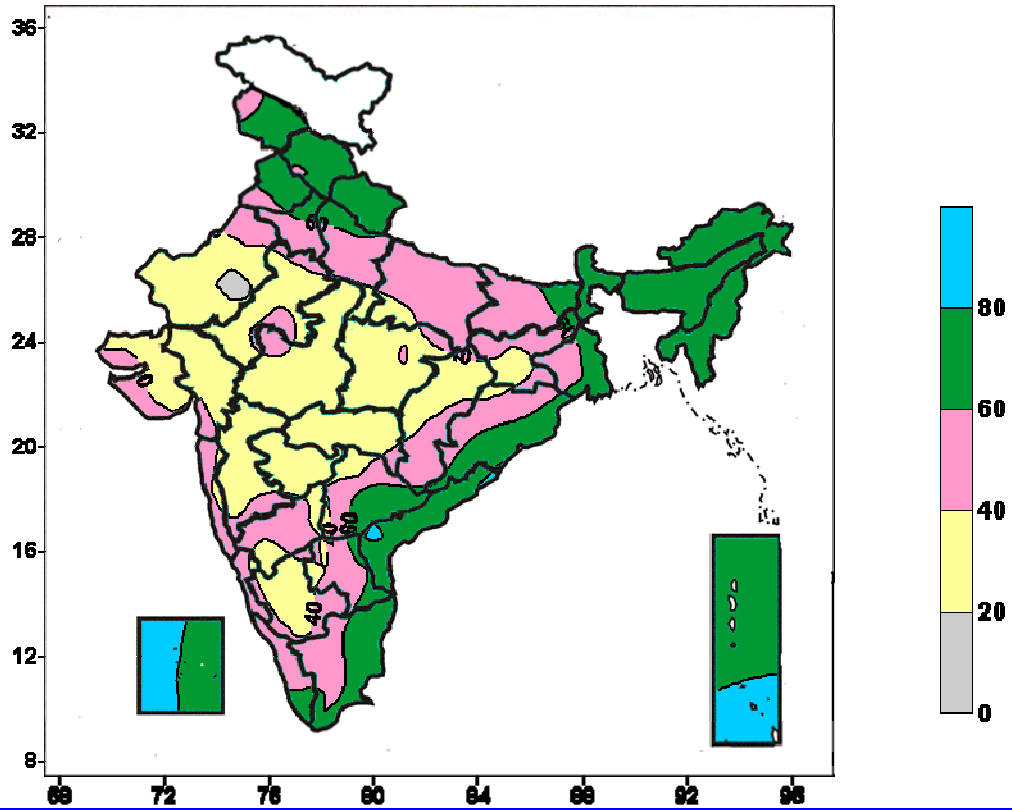
**Actual Mean Minimum Temperature (°C) In India for the week ending 05.03.08**



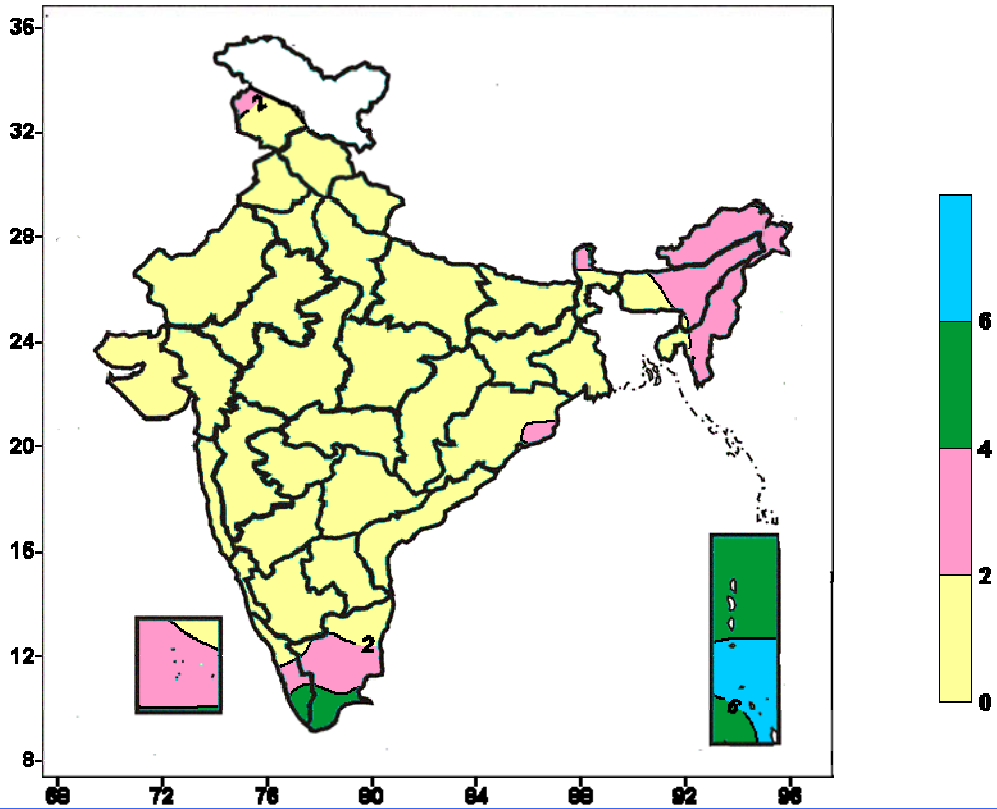
**Minimum Temperature (°C) Anomaly In India for the week ending 05.03.08**



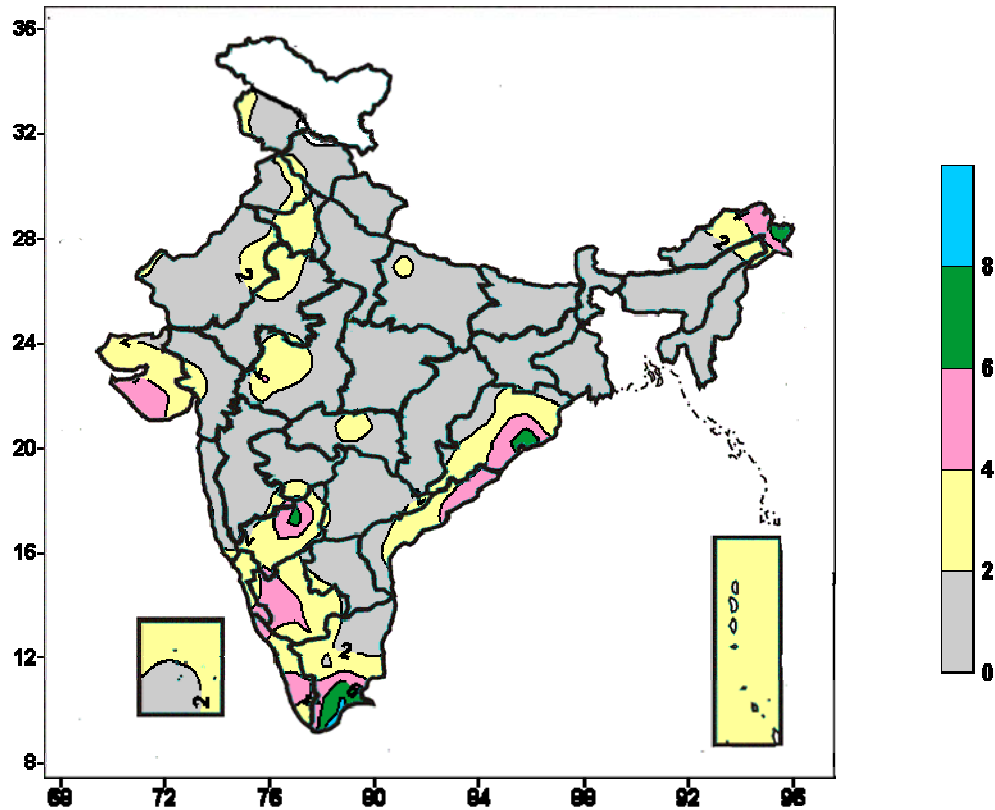
**Relative Humidity (%) over India for the week ending 05.03.08**



**Cloud amount (okta) over India for the week ending 05.03.08**



### Wind speed (knots) over India for the week ending 05.03.08



### CROP-STATE-STAGE

#### Delhi

Vegetables	Mustard	Wheat	Barley	Berseem
vegetative / flowering / fruiting/ harvesting	Seed formation	Flowering	Flowering/grain formation	Vegetative
<b>Gram</b>				
Seed formation				

#### Haryana

Sugarcane / Autumn sugarcane	Horticultural crops	Sunflower	Wheat	Rabi Pulses
Vegetative	Vegetative	Early vegetative	Vegetative	Vegetative
<b>Rabi oilseeds</b>				
Maturity				

#### Himachal Pradesh

Vegetables (Ladies finger/ Cabbage, Cauliflower)	Ladies finger	Barley	Gram	Wheat
Vegetative/flowering/fruiting/harvesting	Fruiting/harvesting	Flowering	Flowering	Flowering
<b>Potato</b>	<b>Oilseeds (Torai, Rapeseed and mustard)</b>			
Vegetative/ tuber formation	Flowering / pod formation			

#### Jammu & Kashmir

Vegetable crops	Wheat	Pulses	Brown Sarson, Mustard	Barley, Oat
vegetative	Jointing	vegetative	Capsule formation- Jammu Vegetative-Kashmir	Jointing

#### Punjab

Sugarcane	Horticultural crop	Rabi Oilseeds	Irrigated toria	Sunflower
Vegetative	Vegetative	Maturity	Fruiting	Early vegetative

<b>Autumn sugarcane</b>	<b>Wheat</b>	<b>Rabi pulses</b>	<b>Rabi oilseeds</b>	
Vegetative	Vegetative	Flowering/grain formation	Vegetative	

**Rajasthan**

<b>Wheat &amp; barley</b>	<b>Gram</b>	<b>Early sown mustard, taramira</b>	<b>Potato</b>	
Flowering	Pod formation	Podformation/development	Tuber formation	

**Uttar Pradesh**

<b>Sugarcane</b>	<b>Vegetables</b>	<b>Rabi pulses</b>	<b>Rai , mustard</b>	<b>Mango</b>
Cane maturity	Flowering / fruiting / maturity	Flowering / grain formation	Pod formation/Maturity	Vegetative/flowering
<b>Wheat</b>				
vegetative/flowering/grain formation				

**Uttarakhand**

<b>Mango/Litchi</b>	<b>Wheat</b>	<b>Sugarcane</b>	<b>Potato</b>	
Flowering	Tillering / flowering/grain formation	Maturity	Seedling/vegetative	

**Assam**

<b>Wheat</b>	<b>Arhar</b>	<b>Horticultural plants</b>	<b>Boro rice</b>	<b>Summer vegetables</b>
Flowering /dough	Maturity/harvesting	Planting	Tillering	Land preparation/sowing
<b>Mustard, rapeseed, pea lentil etc.</b>	<b>Ahu rice</b>	<b>Jute</b>		
Maturity/harvesting	Preparation of seed bed	Land preparation/sowing		

**Arunachal Pradesh**

<b>Ginger</b>	<b>Rabi maize</b>	<b>Pea</b>	<b>Mustard</b>	<b>Wheat</b>
Harvesting	Maturity	Harvesting	Pod formation/maturity	Flowering/grain formation
<b>Rabi Vegetables</b>				
harvesting				

**Bihar**

<b>Vegetables &amp; fruit crops</b>	<b>Maize</b>	<b>Arhar</b>	<b>Other Rabi pulses</b>	<b>Wheat</b>
vegetative	Cob formation	Flowering	Flowering/pod formation	Vegetative
<b>Sugarcane</b>	<b>Rabi oilseeds (rai, linseed)</b>	<b>Gram</b>	<b>Potato</b>	
Vegetative	Pod formation	sowing	Tuber formation	

**Jharkhand**

<b>Pea, gram, potato</b>	<b>Litchi / Mango</b>	<b>Vegetables (Tomato, Brinjal, Bhendi)</b>	<b>Wheat</b>	<b>Mustard</b>
Pod formation	Vegetative (tree)	Vegetative	Active vegetative	Active vegetative
<b>Summer rice</b>				
Transplanting				

**Sikkim**

<b>Orange</b>	<b>Early sown Maize</b>	<b>Large Cardamom</b>	<b>Wheat</b>	<b>Mustard</b>
Active growth	Germination/early vegetative	Vegetative / flowering	Milking/dough	Capsule formation
<b>Maize</b>				
Sowing				

**West Bengal**

<b>Sugarcane</b>	<b>Rabi arhar</b>	<b>Mustard / Rapeseed / gram / lentil</b>	<b>Potato</b>	<b>Sunflower</b>
Cane maturity / harvesting	Pod maturity / seed formation/early maturity	Seed formation/early maturity/maturity	Maturity/harvesting	Vegetative

<b>Boro rice</b>	<b>Early transplanted Boro rice</b>	<b>Wheat</b>	<b>Sesamum</b>	<b>Groundnut / Green Gram</b>
Tillering	Early vegetative / tillering	Milk/dough	sowing	sowing

#### Chhatisgarh

<b>Sugarcane</b>	<b>Rapeseed, mustard</b>	<b>Toria</b>	<b>Vegetables</b>	<b>Wheat</b>
Autumn sugarcane – Vegetative	Early maturity/maturity/harvesting	Pod maturity / harvesting	Fruiting/harvesting	Flowering/grain formation
<b>Rabi crops(pulses)</b>	<b>Early sown rabi crops</b>	<b>Potato</b>	<b>Summer Rice</b>	<b>Sunflower, Groundnut</b>
Grain filling/maturity/harvesting	Germination / early vegetative / vegetative	Tuber formation/early maturity/maturity	Tillering	Vegetative
<b>Green gram/sesame</b>				
Sowing				

#### Gujarat

<b>Sugarcane</b>	<b>Early planted s'cane</b>	<b>Castor</b>	<b>Mustard</b>	<b>Wheat</b>
planting	early vegetative / vegetative	Maturity/harvesting	Early maturity/maturity/harvesting	Milk/dough
<b>Summer rice</b>	<b>Early transplanted rice</b>	<b>Kharif Cotton</b>	<b>Summer groundnut</b>	
Land preparation / sowing	Early vegetative / vegetative	Boll formation/ boll maturity / picking	Land preparation / sowing	

#### Maharashtra

<b>Sugarcane Preseasonal (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Sugarcane (Suru) (Madhya Maharashtra, Marthwada and Vidarbha)</b>	<b>Rabi safflower (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Rabi Jowar (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif Tur (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>
Elongation / cane development	Active growth / elongation	Head formation / seed formation/maturity	Flowering / grain filling / maturity/harvesting	grain maturity / harvesting
<b>Potato (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Rabi onion (Madhya Maharashtra, Marathwada)</b>	<b>Maize (Konkan, Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Gram (Konkan, Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Mango</b>
Vegetative	vegetative	Vegetative	Grain filling / grain maturity/harvesting	Flowering
<b>Wheat (North Konkan, Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>				
Flowering/grain formation/grain maturity				

#### Madhya Pradesh

<b>Sugarcane</b>	<b>Rabi crops (linseed, lentil, gram, mustard)</b>	<b>Wheat</b>		
Grand growth	Harvesting	Grain formation		

#### Orissa

<b>Kharif vegetables</b>	<b>Rice</b>	<b>Sugarcane</b>	<b>Pulses</b>	<b>Oilseeds</b>
Vegetative / fruiting	Tillering	Vegetative	Flowering / Pod formation	Pod maturity/harvesting

#### Andhra Pradesh

<b>Rice</b>	<b>Rabi red gram / Black gram</b>	<b>Groundnut / chillies</b>		
Panicle initiation	Flowering	Flowering		

#### Karnataka

<b>Early sown maize, groundnut, sunflower</b>	<b>Annual sugarcane</b>	<b>Rabi Jowar /Maize/Sunflower</b>	<b>Cotton</b>	<b>Summer rice</b>
Vegetative	Active vegetative / tillering	Harvesting	Boll maturity/picking	Sowing



**Kerala**

<b>Rubber</b>	<b>Pepper</b>	<b><i>Puncha rice</i></b>	<b><i>Arecanut/Coconut</i></b>	<b><i>Banana</i></b>
New planting	Land and nursery preparation	Milking/dough	Harvesting	New planting

**Tamil Nadu**

<b>Rice (<i>Samba</i>)</b>	<b>Sugarcane (Early, Mid season)</b>	<b>Maize/Jowar/Bajra/Samai</b>	<b>Groundnut/Black gram/Green gram/Red gram</b>	
Panicle initiation	Cane development / maturity	Vegetative	Vegetative	

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