



Summary of Agromet Advisory Services for different States of the country

Issued by

Agricultural Meteorology Division, India Meteorological
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Thursday, 13th March, 2008

(For the period 13th March to 17th 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

- Weather remained dry during the period.
- Isolated rain/thundershowers likely over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- There was no rainfall during last week in the State and isolated rain/thundershowers likely over the State during next 24 hours and mainly dry weather thereafter. 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.
- Apply 15 kg Nitrogen/ha in early sown sunflower hybrids.
- Continue sowing of summer moong and mash.

Haryana

- Weather remained dry during the period.
- Isolated rain/thundershowers likely over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no rainfall during last week and isolated rain/thundershowers likely over the State during next 24 hours and mainly dry weather thereafter, 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.
- Apply 15 kg Nitrogen/ha to early sown sunflower hybrids.
- Continue sowing of summer moong and mash.

Rajasthan

- Rain / thundershowers occurred at isolated places in the state.
- Rain/thundershowers likely at a few places over East Rajasthan during next 24 hours and mainly dry weather thereafter. Mainly dry weather is likely over rest of the state.

Advisories

- Apply irrigation to *rabi* crops *viz.*, wheat, potato, barley and gram as there was no significant rainfall in the State during last week and rain/thundershowers likely only at a few places over East Rajasthan during next 24 hours and mainly dry weather thereafter and mainly dry weather is likely over rest of the State.

- Monitor gram for pod borer and undertake plant protection measures on a non rainy day in East Rajasthan if the pest population crosses ETL.

Uttar Pradesh

- Weather was mainly dry in all divisions of U.P.
- Isolated rain/thundershowers likely over west UP during next 24 hours and mainly dry weather thereafter. Mainly dry weather is likely over the rest of the state.

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 solution of Monocrotophos @ 750 ml or NPV 250 LE.
- Continue field preparation and sowing of spring sugarcane and summer vegetables.

Himachal Pradesh

- The weather was mainly dry in the state
- Rain/thundershowers likely at a few places over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no rain during last week in all of the districts of the State and rain is likely only at a few places for next 24 hours and mainly dry weather thereafter, apply irrigation to vegetables, potato, toria, rapeseed, mustard, wheat, barley and gram.
- Remove smut infected plants of wheat and cover smut infected plants of barley from the field and destroy completely to avoid further spread of these diseases.
- There is mild chance of attack of leaf spot disease in cabbage and cauliflower. If attack crosses economic threshold level, spray Dithane M – 45 on a non-rainy day 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 on a non-rainy day.
- Spray Horticulture Mineral oil at break of dormancy stage to avoid the attack of mite in apple. Spray Boric acid (200gm) + Bavistin (100gm) at pink bud stage to avoid the attack of fungus.

Uttarakhand

- Very light rain occurred at isolated places on 10th and 12th, while mainly dry weather prevailed during rest of the week.
- Rain/thundershowers likely at a few places over the state during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no rain during last week and rain/thundershowers likely only at a few places over the State during next 24 hours and mainly dry weather thereafter, apply irrigation to wheat.
- Undertake intercultural operations in orchards, sugarcane to keep the field weed free.
- Undertake sowing of potato in hilly areas.

Jammu & Kashmir

- Weather remained mainly dry over J&K divisions.
- Isolated rain / thundershowers likely over the state during next 24 hours and mainly dry weather thereafter.

Advisories

- Monitor tomato, brinjal, cabbage and cauliflower for virus infection. Rouge out virus affected plants and destroy completely.
- Monitor mustard for aphid 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.
- Apply irrigation to the standing crops as only isolated rain / thundershowers likely over the state during next 24 hours and mainly dry weather thereafter.
- 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 chilly crops 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.
- 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

- Weather remained mainly dry.
- Isolated rain / thundershowers are likely over the State during next 24 hours

Advisories

- As there was no rainfall in the State during last few weeks and no significant rain is likely to occur over the State for the next three days, apply irrigation to vegetables, mustard, gram, barley and wheat.
- 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.
- Start harvesting of already matured crops of mustard on bright sunny days.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

- Rain / thundershowers occurred at isolated places in Kerala on 10th & 12th March. Mainly dry weather prevailed on 11th March.
- Rain / thundershowers likely at many places over the state.

Advisories

- As rain/thundershowers likely at many places over the State, postpone 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. As a prophylactic measure spray crown and leaves with 1% 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 gm. 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 gm. Phorate 10G or 10 gm. Carbofuran 3G per plant in leaf axil or 25 gm Phorate or 20 gm. Carbofuran per pit in soil, 70 days and again 165 days after planting to control bunchy top disease.
- 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.
- Apply fertiliser and pesticide after current spells of rain.

Tamilnadu

- Rainfall occurred at many places over Coastal Tamilnadu, at a few places over Interior Tamilnadu on 12th, at a few places over South Coastal Tamilnadu, dry weather prevailed over South Interior and North Tamilnadu on 10th and at one or two places over Tamilnadu on 11th March 2008.
- Rain/thundershowers likely at many places over Tamil Nadu.

Advisories

- Postpone irrigation to groundnut, sugarcane and pulse crops as rain/thundershowers likely at many places over Tamil Nadu 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 after current spells of rain.
- Undertake intercultural operations in the standing crops to keep the field weed free after current spells of rain.

Karnataka

- Mainly dry weather prevailed over South Interior Karnataka on 12th. Dry weather prevailed over the State on the remaining days.
- Isolated rain/thundershowers likely over the state outside North Interior Karnataka, where weather will be mainly dry.

Advisories

- As there was no rainfall in the State during last few weeks and isolated rain/thundershowers likely over the state outside North Interior Karnataka, where weather will be mainly dry 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 in sugarcane to prevent the crop from lodging.
- Continue harvesting matured *rabi* sunflower, cotton, sunflower and maize crops.
- Continue land preparation and transplanting of summer rice.

Andhra Pradesh

- Dry weather prevailed over the state during the period.
- Isolated rain/thundershowers likely over the State.

Advisories

- As there was no significant rainfall during last few weeks over the State and no significant rain is likely to occur during next three days, apply irrigation to the crops.
- Maintain 5 – 7 cm water level in rice field.
- 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 control incidence of thrips in groundnut spray Monocrotophos @ 1.6 ml or Dimethoate @ 2ml per litre of water if the crop is between 15-40 days.
- Undertake intercultural operation in groundnut wherever the crops are at flowering stage to keep the field weed free.

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

Assam

- Very light to light rain occurred at isolated places on 12th March and dry weather prevailed over the state on 10th & 11th March.
- Rain / thundershowers are likely at a few places 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 a few places for next three days, apply irrigation to wheat.
- Maintain 3 – 5 cm of water in *boro* rice field.
- Continue harvesting 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.
- Apply chemicals on a non-rainy day.
- 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 on a non-rainy day.
- 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 on a non-rainy day.

Arunachal Pradesh

- Light rain occurred at one or two places on 12th march and weather was mainly dry during rest of the period
- Rain/thundershowers likely at a few places over the state.

Advisories

- Harvest the matured crops of pea, vegetables and *rabi* maize on bright sunny days.
- Undertake weeding and hoeing in wheat and mustard on a non-rainy day to keep the field weed free.
- Farmers are advised to start sowing of summer vegetables like ladies finger, cucurbits / pumpkin etc.
- Undertake sowing of ginger.

Bihar

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

Advisories

- As only 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 rai / sarson crop for aphid attack. To control aphids, spray Methyl demeton 25 EC or Quinlphos 25 EC @ 1 liter/ha.
- Monitor the gram crop for pod borer, to control the pest spray Endosulphan @ 1.5 lit/ha.
- Continue sowing of summer vegetables and moong.

Jharkhand

- Weather remained mainly dry.
- Isolated rain/thundershowers likely over the state during next 24 hours and mainly dry weather thereafter.

Advisories

- Apply irrigation to the vegetables, wheat, mustard and gram as there was no rain during last week and only isolated rain/thundershowers likely over the state during next 24 hours and mainly dry weather thereafter.
- Prepare field and undertake sowing of summer vegetables.

Sikkim

- Very light rainfall occurred at a few places over East Sikkim on 8th and 11th, otherwise weather was mainly dry during the period. Rainfall was scanty during the week.
- Isolated rain/thundershowers are likely over the state.

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

- Very light to light rain occurred at isolated places over Sub Himalayan West Bengal on 11th Weather was mainly dry on 10th and 12th March over West Bengal.
- Isolated rain/thundershowers likely over Sub-Himalayan West Bengal & mainly dry weather are likely over the rest of the state.

Advisories

- As there was no significant rainfall during last week over the State and no significant rain is likely to occur during next three days, apply irrigation to *rabi* arhar and wheat.
- Maintain 3 – 5 cm standing water in *boro* rice field. Apply remaining 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, P₂O₅ and K₂O 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

- Rain/thundershowers likely at isolated places over Gujarat region during next 24 hours and mainly dry weather thereafter
- Mainly dry weather is likely over the rest region.

Advisories

- As there was no rain during last few weeks over the State and no significant rain is likely to occur for next three days, apply irrigation to sugarcane, wheat and summer groundnut.

- Maintain 3 – 5 cm water in summer rice field.
- Apply 75 kg Nitrogen / ha as top dressing after 45 days from plating of sugarcane. Carry out light earthing up at 90 days after planting.
- Prepare land for sowing of summer bajra with assured irrigation facilities. Apply 60 kg N and 60 kg P₂O₅ at the time of land preparation. Select high yielding varieties from GHB – 526, 558 etc. for sowing.

Chhattisgarh

- Dry weather prevailed in all divisions of state.
- Isolated rain/thundershowers likely over the state during next 24 hours and mainly dry thereafter.

Advisories

- As there was no rainfall during last week in all the districts of the State and no significant rain is likely for next three days, apply irrigation to sugarcane, vegetables, wheat and other *rabi* crops and sunflower and groundnut.
- Apply remaining 25 kg N / ha at 6 weeks after transplanting of summer rice. 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. 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*) and early sown summer bajra.
- Maintain 3 – 5 cm standing water in summer rice field.
- Harvest matured crops of *rabi* jowar, safflower, gram and wheat.
- Apply 136 kg N / ha (4th 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.
- Prepare land and sow summer sunflower. Select the hybrid varieties from BSH 11 and SPSH 11 for sowing
- Prepare land and continue sowing of summer bajra. Top dressing of N @ 45 kg / ha may be done at 25-30 days after sowing.

Madhya Pradesh

- Dry weather prevailed over the state during the period.
- Isolated rain/thundershowers likely over West Madhya Pradesh during next 24 hours and mainly dry thereafter. Mainly dry weather is likely over the rest of the state.

Advisories

- As there was no rain during last week in the State and isolated rain/thundershowers likely over West Madhya Pradesh during next 24 hours and mainly dry thereafter and mainly dry weather is likely over the rest of 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.

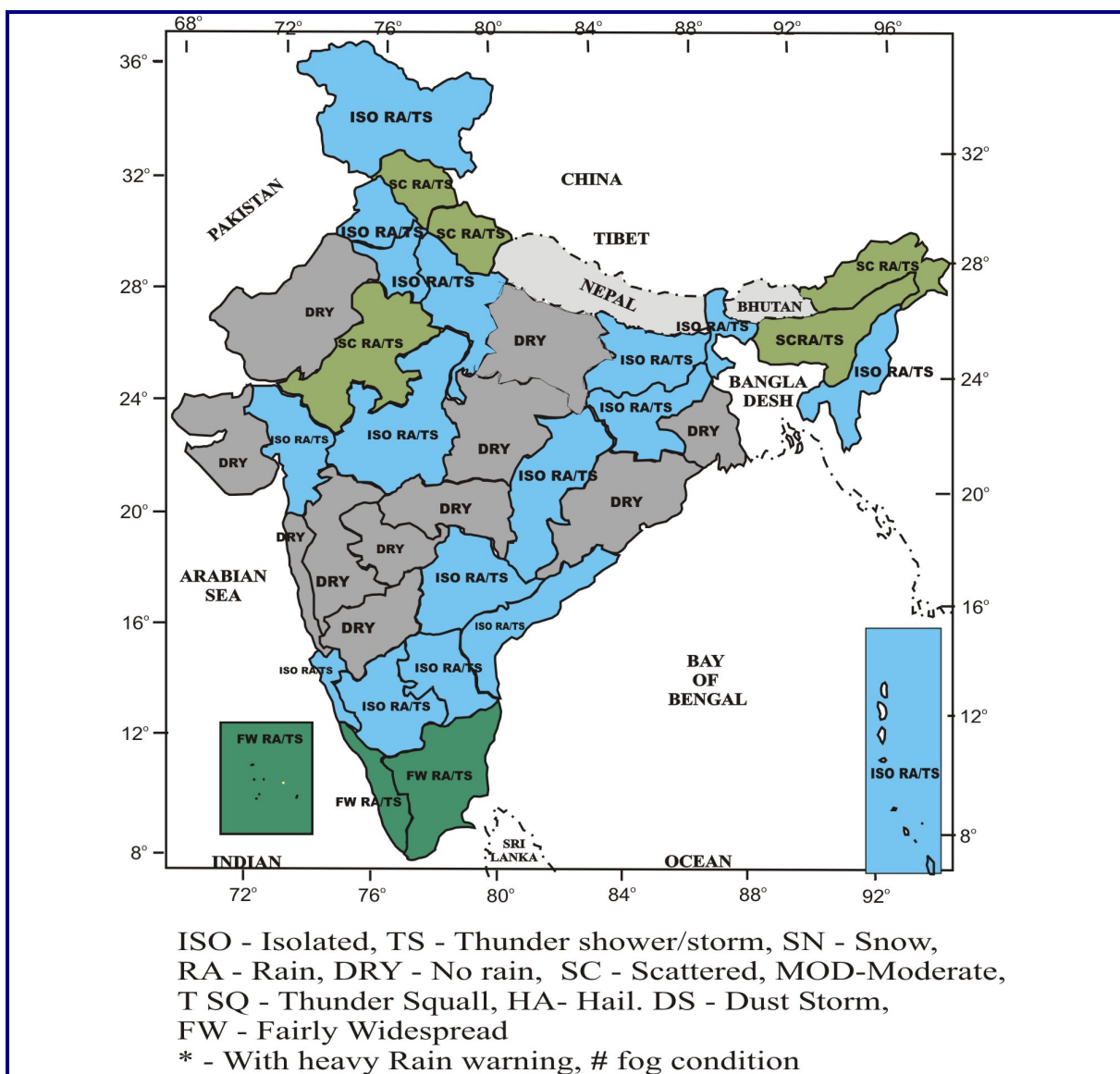
Orissa

- 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.
- 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 16th March, 2008



Salient weather features for the week ending 12/03/08

METEOROLOGICAL ANALYSIS

- A western disturbance as an upper air system lay over Jammu & Kashmir on 6th and moved away eastwards thereafter.
- Another western disturbance as an upper air system lay over north Pakistan and neighbourhood on 7th, north Pakistan & adjoining Jammu & Kashmir during 8th- 10th and moved away eastwards thereafter.
- An upper air cyclonic circulation in lower tropospheric levels lay over south Pakistan and adjoining Rajasthan on 10th and Gujarat & neighbourhood on 11th & 12th.
- A trough in westerlies in mid-tropospheric level roughly ran along 50°E to the north of 15°N in the beginning of the week. It slowly moved eastwards and roughly ran along 68°E to the north of 15°N by the end of the week.
- The trough in easterlies in lower tropospheric levels affected Andaman & Nicobar Islands and extreme south peninsula during the week.
- Last week's cyclonic circulation extending upto 0.9 km above mean sea level (amsl) over Gangetic West Bengal and neighbourhood lay over Bangladesh and neighbourhood upto 3.1 km amsl on 6th & 7th, over west Assam & Meghalaya and neighbourhood on 8th & 9th. It persisted over the same region extending upto 1.5 km amsl on 10th and became less marked on 11th.

RAINFALL / SNOWFALL

Under the influence of the above systems:

- Isolated rain/thundershowers occurred over Jammu & Kashmir and Himachal Pradesh on 8th.
- Isolated rain/thundershowers occurred over Rajasthan and Gujarat on 12th.
- Isolated /scattered rain/thundershower occurred over Andaman & Nicobar Islands on many days of the week.
- Isolated rain/thundershowers occurred over south Tamil Nadu and south Kerala on 7th. Another spell of rain/thundershower commenced over extreme south peninsula from 10th with isolated rain/thundershowers over south Tamil Nadu and Kerala on 10th & 11th. Fairly widespread rain/thundershowers occurred over coastal Tamil Nadu and isolated rain/thundershowers occurred over interior Tamil Nadu and Kerala on 12th.
- Isolated rain/thundershowers occurred over northeastern states on many days of the week.
- Mainly dry weather prevailed over remaining parts of the country during the week.

FOG

Fog conditions in the morning hours developed over isolated pockets of Punjab, Haryana and Delhi during first half of the week. Fog conditions in morning hours also developed over some parts of coastal Orissa on 8th, 11th & 12th and over Jharkhand and Gangetic West Bengal on 9th.

MINIMUM TEMPERATURE

- The minimum temperatures were above normal by 2-6°C over northwest India, north Madhya Pradesh and Rajasthan during the week. They were also above normal by 2-6°C over remaining parts of west & central India and Orissa during second half of the week.
- They were above normal by 2-4°C over remaining parts of east & northeast India during many days of the week.
- They were below normal by 2-6°C over Tamil Nadu, Kerala and Andhra Pradesh on a few days of the week.
- They were nearly normal over the remaining parts of the country during the week.

MAXIMUM TEMPERATURE

- The maximum temperatures were above normal by 5-8°C over many parts of Punjab, Haryana, Chandigarh and Delhi, Jammu & Kashmir, Rajasthan and Madhya Pradesh during many days of the week. They were above normal by 2-4°C over remaining parts of west, northwest and central India and adjoining areas of south India and Orissa.
- They were above normal by 2-4°C over Assam & Meghalaya during many days of the week.
- They were below normal by 2-6°C over remaining parts of east India during first half of the week and normal thereafter.
- They were near normal over remaining parts of the country during the week.

RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 12TH MARCH, 2008)

Rainfall was excess/normal in 3, deficient/scanty in 11 and no rain in 22 out of 36 meteorological sub-divisions (Actual: 0.8 mm, Normal: 6.2 mm and Departure: -88 %).

CUMULATIVE SEASONAL RAINFALL (1ST MARCH TO 12TH MARCH, 2008)

Rainfall was excess/normal in 4, deficient/scanty in 13 and no rain in 19 out of 36 meteorological sub-divisions. (Actual: 2.2 mm, Normal: 10.2 mm and Departure: -78%).

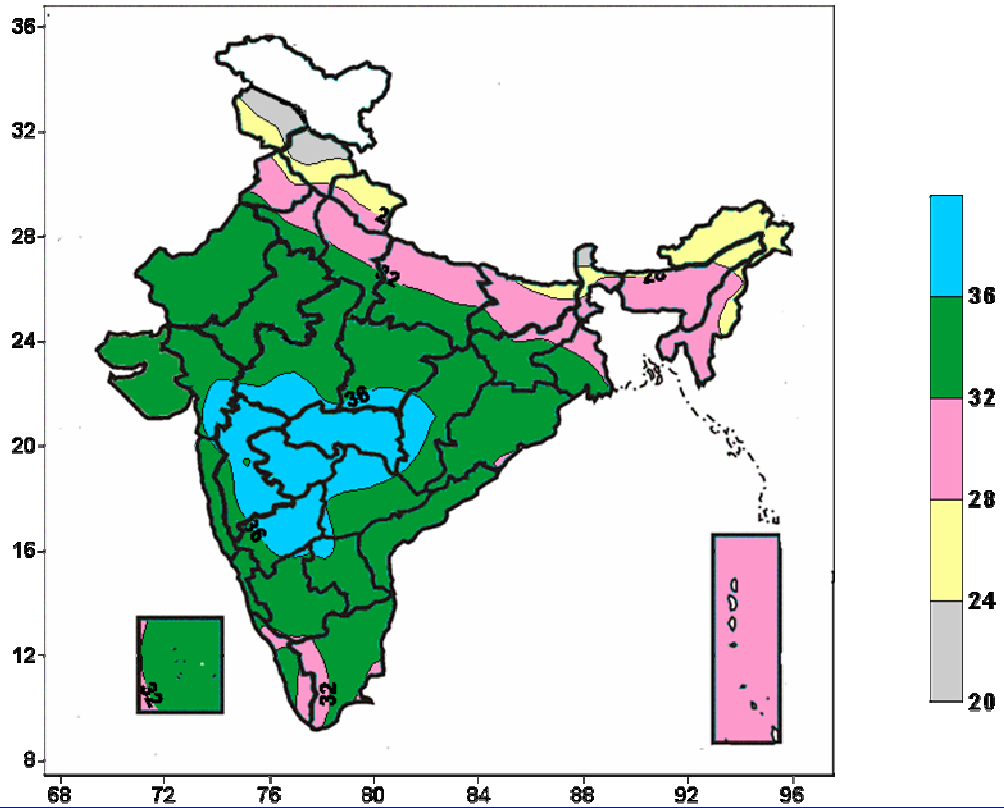
The sub-division-wise weekly and seasonal rainfall distribution is presented in the enclosed map.

OUTLOOK FOR THE WEEK ENDING ON 19TH MARCH, 2008.

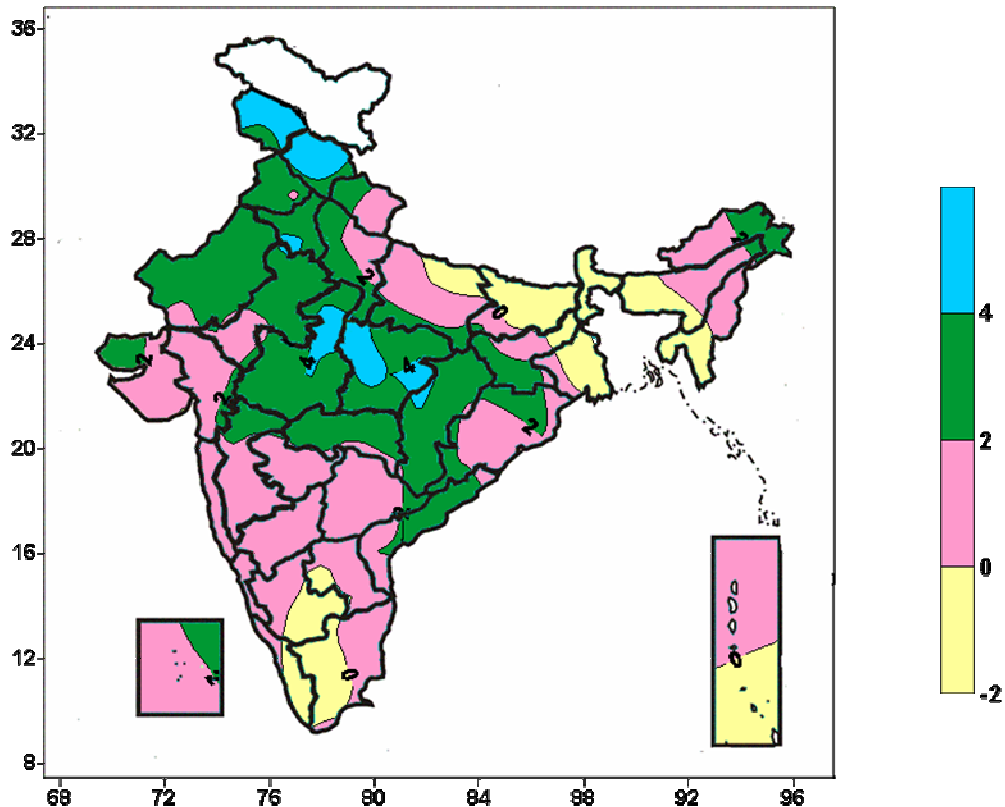
- Scattered to fairly widespread rain/thundershowers are likely over south peninsula and parts of northeastern states.

Contour maps for the week ending 12th March, 2008

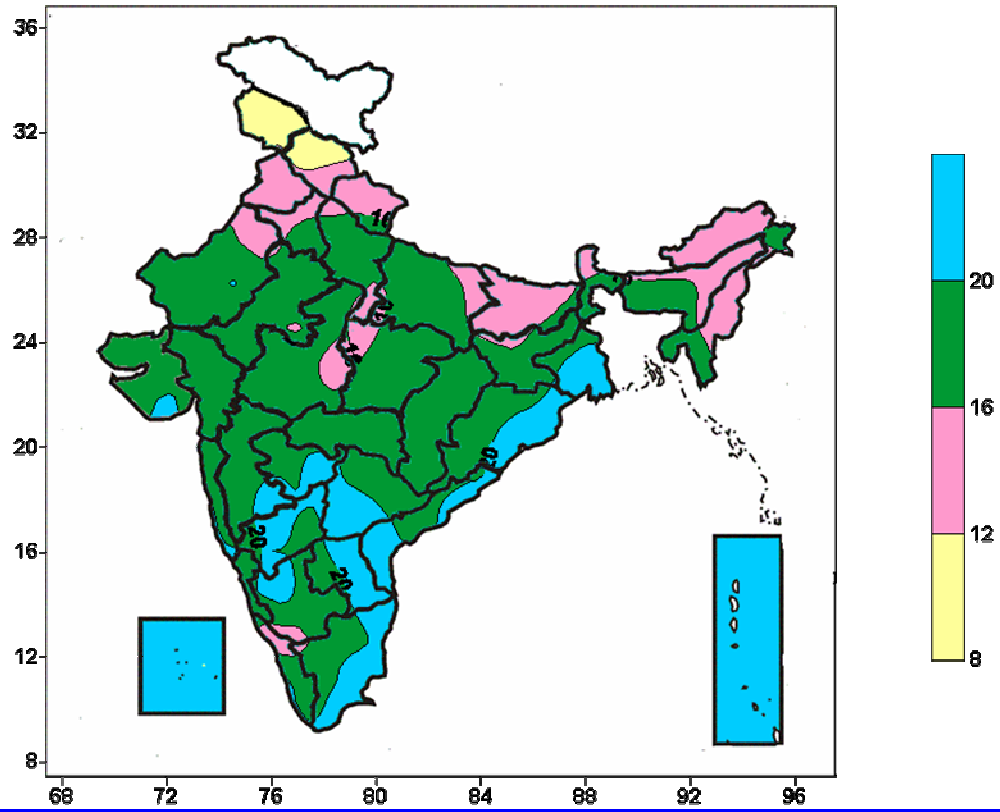
Actual Mean Maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 12.3.08



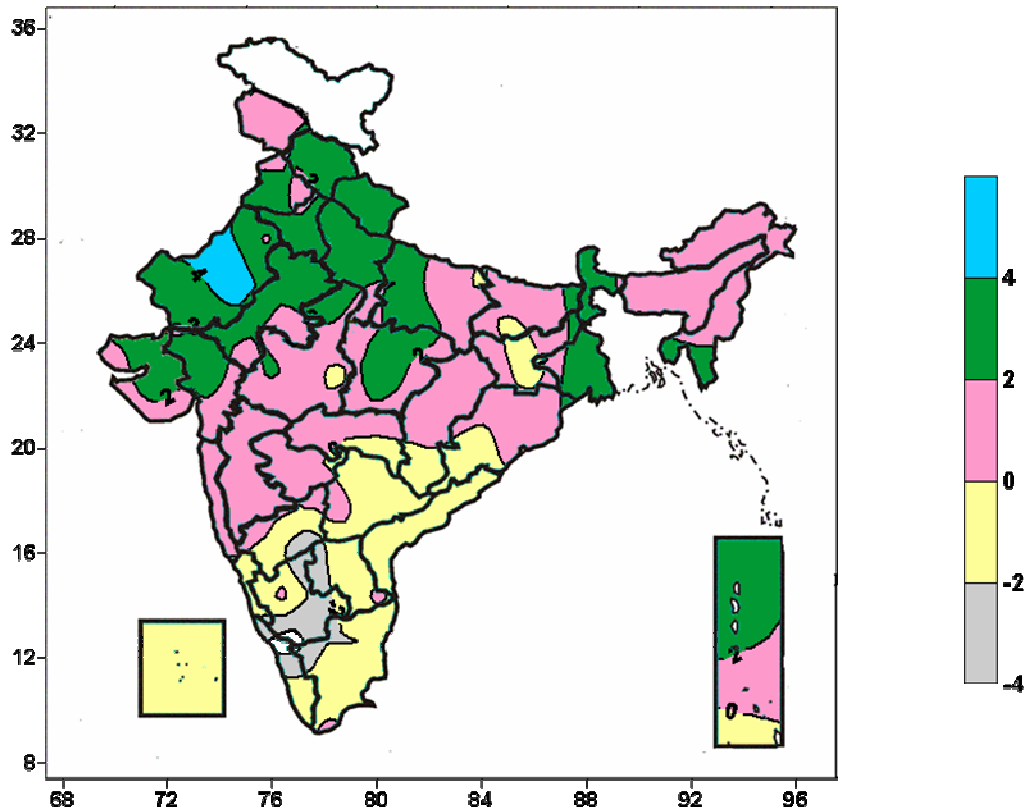
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 12.3.08



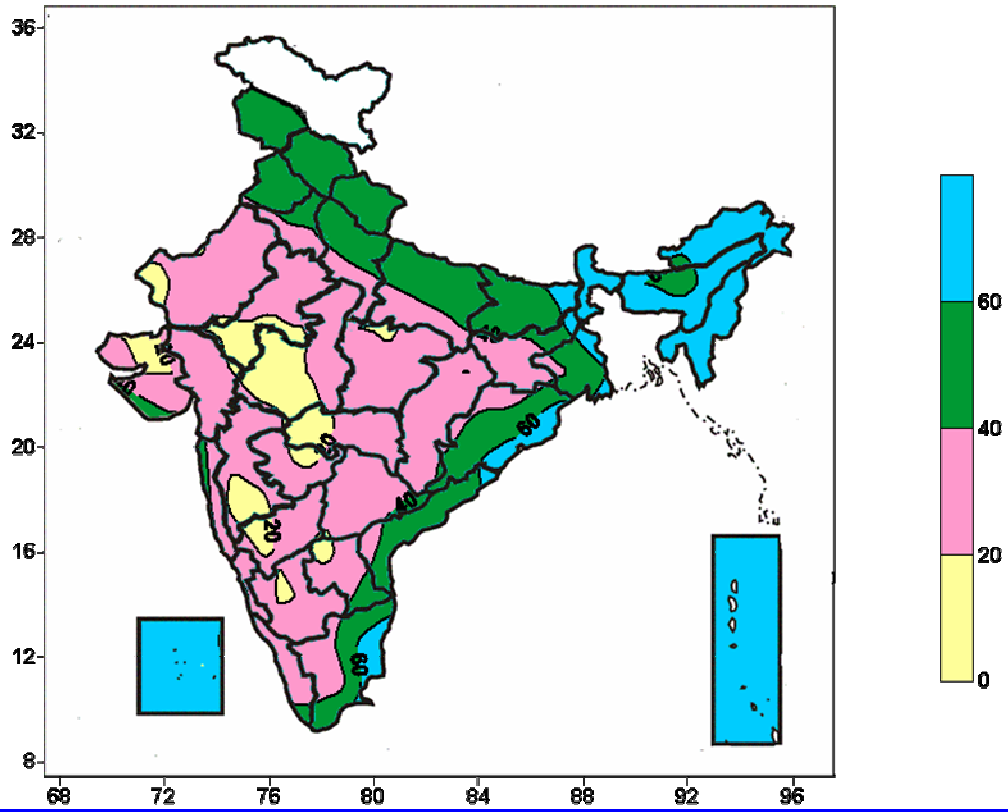
Actual Mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 12.3.08



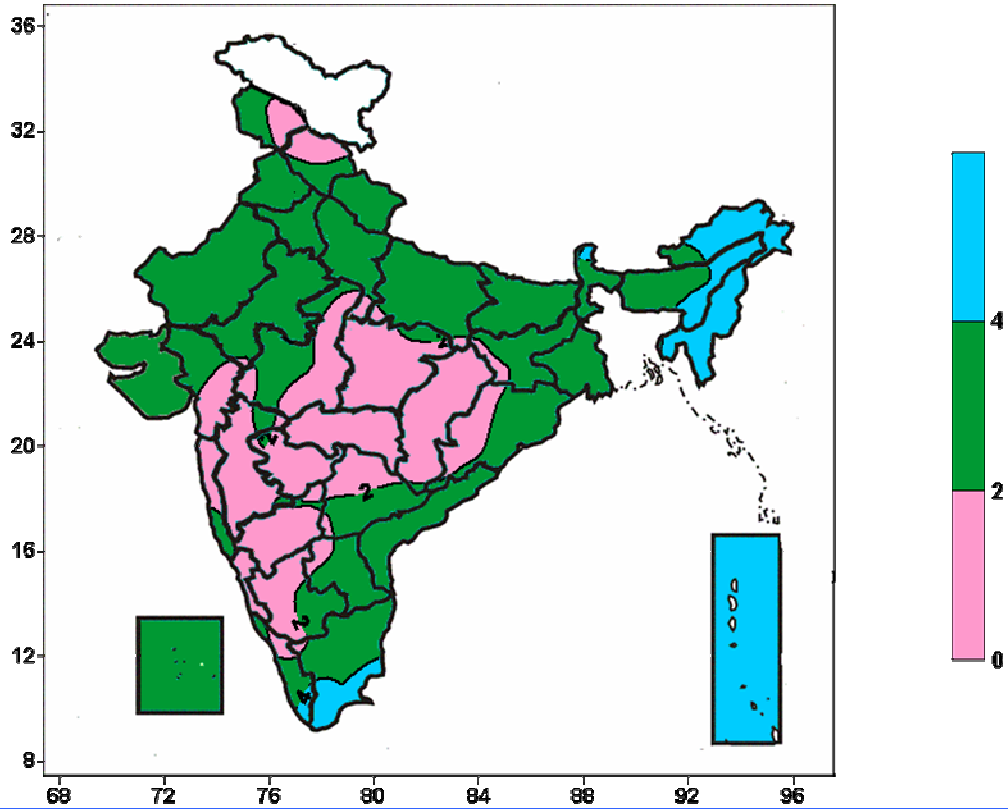
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 12.3.08



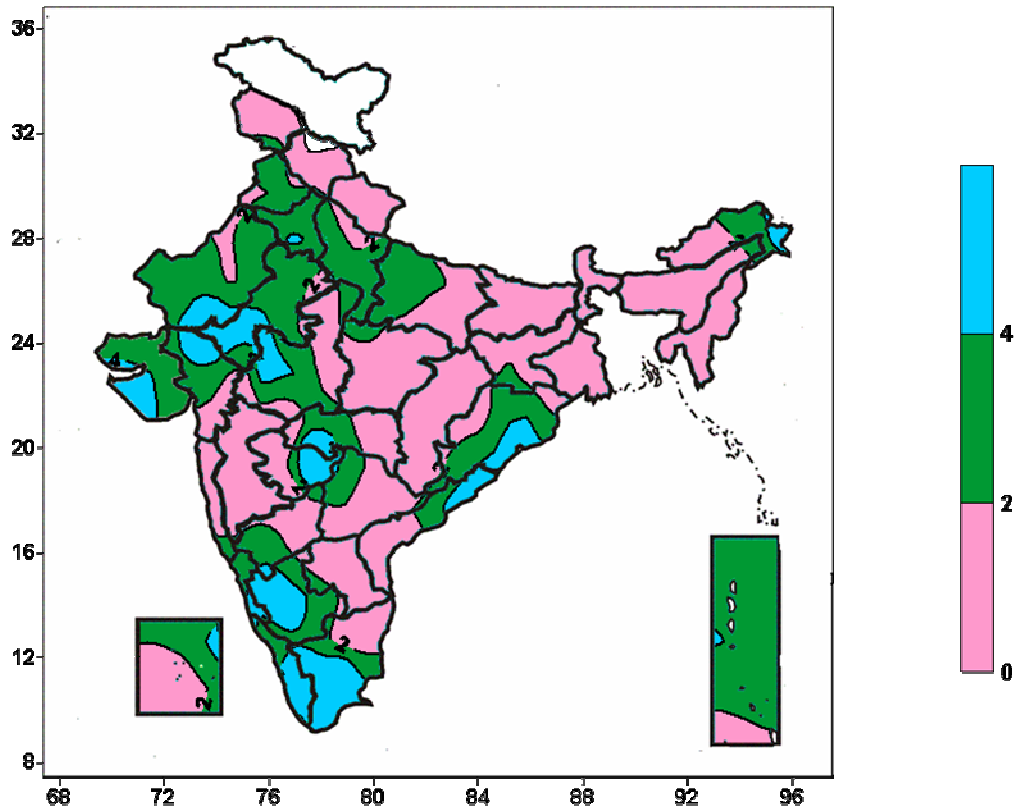
Relative Humidity (%) over India for the week ending 12.3.08



Cloud amount (okta) over India for the week ending 12.3.08



Wind speed (knots) over India for the week ending 12.3.08



Desert Locust Forecasting



Rainfall (mm)							
Station Name	06/03/08	07/03/08	08/03/08	09/03/08	10/03/08	11/03/08	12/03/08
Amritsar	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Barmer	00.0	00.0	00.0	00.0	00.0	00.0	01.9
Sriganganagar	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Jaisalmer	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Kota	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Deesa	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Churu	00.0	00.0	00.0	00.0	00.0	00.0	00.0

Temperature(°C)

Station Name	06/03/08	07/03/08	08/03/08	09/03/08	10/03/08	11/03/08	12/03/08
Amritsar	17.5	-	19.5	19.5	18.5	19.5	24.5
Barmer	-	26.0	27.0	27.5	28.5	29.0	23.0
Sriganganagar	23.5	-	21.5	21.5	23.0	22.5	24.5
Jaisalmer	-	25.5	24.5	26.5	26.5	26.5	26.5
Kota	28.0	27.0	26.5	27.0	25.5	25.0	24.5
Deesa	24.5	24.0	25.0	25.5	27.5	30.0	26.5
Churu	-	25.0	25.5	24.0	24.5	26.5	23.0

Wind															
Station Name	06/03/08		07/03/08		08/03/08		09/03/08		10/03/08		11/03/08		12/03/08		
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	
Amritsar	-	-	-	-	-	-	-	-	-	-	-	-	-	WSW	03
Barmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sriganga nagar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kota	-	-	-	-	WNW	08	-	-	-	-	W	18	NNW	09	
Deesa	-	-	-	-	WNW	08	-	-	W	08	E	17	SSE	25	
Churu	-	-	-	-	-	-	-	-	WNW	15	NW	16	ENE	13	

Under the prevailing weather conditions, there is no chance of locust infestation in Rajasthan and the adjoining areas during this week.

CROP – STATE – STAGE

Delhi

Vegetables	Mustard	Wheat	Barley	Berseem
vegetative / flowering / fruiting / harvesting	Seed formation/maturity	Flowering/milk	Grain formation	Vegetative
Gram				
Seed formation				

Haryana				
Sugarcane / Autumn sugarcane	Horticultural crops	Sunflower	Wheat	Rabi Pulses
Vegetative	Vegetative	Early vegetative	Ear head formation	Maturity

Himachal Pradesh

Vegetables (Ladies finger/ Cabbage, Cauliflower)	Ladies finger	Barley	Gram	Wheat
Vegetative/flowering/fruiting/harvesting	Fruiting/harvesting	Flowering/grain formation	Flowering/pod formation	Flowering/milk
Potato	Oilseeds (Torai, Rapeseed and mustard)			
Tuber formation	Pod formation			

Bihar

Vegetables & fruit crops	Maize	Arhar	Other Rabi pulses	Wheat
vegetative	Cob formation	Pod formation	Pod formation	Grain formation
Sugarcane	Rabi oilseeds (rai, linseed)	Gram	Potato	
Vegetative	Pod formation	sowing	Tuber formation	

Jharkhand

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

Sikkim

Orange	Early sown Maize	Large Cardamom	Wheat	Mustard
Early flowering	Germination/early vegetative	Vegetative / flowering	Milking/dough	Capsule formation

Maize	Vegetables			
Sowing	Sowing			

West Bengal

Sugarcane	Rabi arhar	Mustard / Rapeseed / gram / lentil	Potato	Sunflower
Cane maturity / harvesting	Seed formation/early maturity/maturity	Maturity/harvesting	Maturity/harvesting	Vegetative
Boro rice	Early transplanted Boro rice	Wheat	Sesamum	Groundnut / Green Gram
Tillering	Early vegetative / tillering	Milk/dough	sowing	sowing

Chhatisgarh

Sugarcane	Rapeseed, mustard	Green gram Sesame	Vegetables	Wheat
Autumn sugarcane – Vegetative	Early maturity/maturity/harvesting	Sowing	Fruiting/harvesting	Grain formation
Rabi crops(pulses)	Sunflower, Groundnut	Potato	Summer Rice	Green gram/sesame
Grain filling/maturity/harvesting	Vegetative	Early maturity/maturity/harvesting	Tillering	Sowing

Gujarat

Sugarcane	Early planted s'cane	Castor	Mustard	Wheat
Vegetative	Early vegetative / vegetative	Harvesting	Maturity/harvesting	Milk/dough
1Summer rice	Early transplanted rice	Kharif Cotton	Summer groundnut	Summer bajra
Tillering	Early vegetative / vegetative	Boll formation/ boll maturity / picking	Early vegetative / vegetative	Land preparation/sowing

Maharashtra

Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Maharashtra, Marthwada and Vidarbha)	Rabi safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Wheat (North Konkan, Madhya Maharashtra, Marathwada & Vidarbha)
Elongation / cane development	Active growth / elongation	Maturity/harvesting	Maturity/harvesting	Grain maturity/harvesting
Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi onion (Madhya Maharashtra, Marathwada)	Maize (Konkan, Madhya Maharashtra, Marathwada & Vidarbha)	Gram (Konkan, Madhya Maharashtra, Marathwada & Vidarbha)	Mango
Vegetative	vegetative	Vegetative	Grain maturity/harvesting	Fruiting
Summer Rice	Summer sunflower	Summer bajra		
Early vegetative/tillering	Land preparation/sowing	Land preparation/sowing		

Madhya Pradesh

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

Orissa

Kharif vegetables	Rice	Sugarcane	Pulses	Oilseeds
Vegetative / fruiting	Tillering	Vegetative	Flowering / Pod formation	Pod maturity/harvesting
Moong				
Vegetative				

Andhra Pradesh

Rice	Groundnut			
Grain formation	Flowering/pegging			

Karnataka

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

Kerala

Rubber	Pepper	<i>Puncha</i> rice	<i>Areca</i>nutCoconut	<i>Banana</i>
New planting	nursery preparation	Milking/dough	Harvesting	New planting

Tamil Nadu

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