



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

Thursday, 4th January, 2007

(For the period 4th January to 8th January, 2007)

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

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

Punjab

Cold wave conditions prevailed in parts of the State on 3rd January. Weather remained dry in the State during the period.

Isolated rain / thundershower is also likely over the State after 24 hours.

Advisories

- There was no significant rainfall in the State during last week and isolated rain / thundershower is likely over the State after 24 hours. Under the circumstances, apply irrigation to **sugarcane, rabi oilseeds, gram, lentil and wheat.**
- Continue sowing of **sunflower.**
- Make necessary arrangements to protect the **rabi oilseed, gram, lentil, wheat and vegetable** crops from cold / frost injury. Apply light irrigation and arrange for smoke around the field to prevent 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.
- Apply top dressed nitrogen to early sown **wheat** crop.
- Harvesting of early maturing varieties of **toria** may be completed and mid varieties may be continued.

Haryana

Cold wave conditions prevailed in parts of the State on 2nd and 3rd January. Weather remained dry in the State during the period.

Isolated rain / thundershower is likely over the State after 24 hours.

Advisories

- There was no rainfall during last week and isolated rain / thundershower is likely over the State after 24 hours. Under the circumstances apply irrigation to **sugarcane, gram, lentil and wheat.**
- Continue sowing of **sunflower.**
- Incidence of **shoot borer, top borer, gurdaspur borer, pyrilla, termite and red rot** is reported in **sugarcane.** To control **pyrilla** spray 600-800 ml malathion in 800 litre of water per acre.
- Make necessary arrangements to protect the **rabi oilseed, gram, lentil, wheat and vegetable** crops from cold/frost injury. Apply light irrigation and arrange for smoke around the field to prevent 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.

Rajasthan

Weather remained dry in all divisions of the State.

Isolated rain / thundershower is likely over North Rajasthan on 5th January. Mainly dry weather is likely over the rest region of the State. Rise in night temperature over the State during next 1-2 days.

Advisories

- Apply irrigation and arrange for smoke near the field in north Rajasthan to safeguard the crops from cold 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.
- As there was no significant rainfall during last week and isolated rain / thundershower is likely over North Rajasthan and mainly dry weather is likely over the rest region of the state, apply irrigation to the standing crop.
- Monitor **mustard** for **aphids** attack and if the pest population crosses ETL, dust Methyl parathion 2% or spray Endosulfan 35 EC @ 1.25 lit / ha.
- Also monitor **gram** for **pod borer** and **cumin** for **aphids** attack and if the pest population crosses ETL, undertake plant protection measures.

Uttar Pradesh

Weather was mainly dry in all divisions of the State during 1st to 3rd January.

Isolated rain / thundershower is likely over West U.P after 24 hours. Dry weather is likely over East U.P. Intensity of fog over East U.P is likely to decrease.

Advisories

- There was no significant rainfall during last week and isolated rain / thundershower is likely over West U.P after 24 hours and dry weather is likely over East U.P. Under these circumstances, apply irrigation to bring the soil moisture to its field capacity in **rabi oilseed, pulses** and **winter vegetable** crops.
- Continue weeding and hoeing, along with top dressing of nitrogen in winter **vegetables** and **rabi oilseeds, wheat** and **pulses**.
- Harvesting of **sugarcane** may be continued.
- Make necessary arrangements to protect the **wheat** and **barley** crops from cold injury. Apply light irrigation and arrange for smoke around the field.

Himachal Pradesh

Weather remained dry during the period.

Rain / snow is likely at a few places over the State after 24 hours.

Advisories

- As there was no significant rain during last two weeks in the State and rain / snow is likely at a few places, apply irrigation to **vegetable** crops, **gram, rapeseed** and **mustard, wheat** and **barley**.
- Complete land preparation and nursery sowing and transplanting of **cauliflower** and **cabbage** in low and mid hills, sowing of **radish, turnip** and **carrot**.
- Apply first split dose of N @ 25 – 30 kg / ha at crown root initiation stage (20 – 25 days after sowing) and second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat**.
- As there is chance of occurrence of frost, farmers are advised to arrange for smoking around the field to save the crops from frost.

Uttaranchal

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

Rain / snow is likely to occur at a few places over the State after 24 hours.

Advisories

- There was no significant rainfall during last week and rain / snow is likely to occur at a few places over the State after 24 hours. Under the circumstances, apply required irrigation to **potato** and **wheat** crops.
- Apply light irrigation and arrange for smoke around the field to prevent frost injury in **potato** and **wheat**.
- Continue harvesting matured crops of **toria**, **sugarcane** and **pea**.

Jammu & Kashmir

Weather remained dry in J & K State.

Isolated snowfall is likely to occur during next 24 hours and rain / snow is likely to occur at a few places after 24 hours over the State.

Advisories

- Apply irrigation and arrange for smoke near the field in Jammu division to safeguard the crops from cold / frost injury. Wipe out water droplets on the leaves by pulling rope from the two sides of the field. This will prevent formation of ice crystals during night time.
- Undertake intercultural operations in early sown **mustard** and **rabi vegetables** on a non rainy day to keep the field weed free.
- Rouge out virus effected crops of **brinjal**, **tomato**, **cauliflower** and **cabbage** in Jammu division.
- This is proper time for late sowing of **raddish** (varieties: Pusa Himani) and **spinach** (all green prickly seed). Continue land preparation and sowing of **raddish** and **spinach**.

Delhi

Weather remained dry during the period.

Isolated rain/thundershower is likely over the State after 24 hours.

Advisories

- As there was no significant rainfall during last few weeks and isolated rain / thundershower is likely over the State, apply irrigation to **early sown vegetable crops** and also to **barley**, **gram**, **mustard** and **wheat** to bring the soil moisture to its field capacity.
- Prepare land and perform sowing of Pusa Himani variety of **raddish** and Nanteez variety of **carrot**. Treat the seeds with Captan or Thairam or Dithane M- 45 @ 2 g / kg seeds. Prepare nursery for transplanting of **brinjal** and **tomato**.
- Apply first split dose of N @ 25 – 30 kg / ha at crown root initiation stage (20 – 25 days after sowing) and second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat**.
- To control wild oats and *Phalaris minor* in **wheat** crops, use isoproturan 75% W.P. @ 1 Kg / ha and 2, 4-D AMIEN salt 58 EC @ 750-1000 ml / ha for controlling broad leaved weeds after 28-35 days of sowing.
- As there is chance of occurrence of frost, farmers are advised to arrange for smoking around the field to save the crops from frost.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Weather was dry over the State during the period.

Mainly dry weather is likely over the State.

Advisories

- There was no significant rainfall in the State during last few weeks and dry weather is likely to prevail for the next three days. Under the circumstance, apply irrigation to **plantation crops** and **mundakan rice** to bring the soil moisture to its field capacity.
- Attack of **red palm weevil** is reported in **coconut**. Fill the leaf axils with Sevidol 8 G @ 25 gm and fine sand @ 200 gm to control red palm weevil.
- Attack of **pseudo stem weevil** is reported in **banana**. To control the pest in endemic area, first remove the dry outer sheath of the pseudostem of infested and uninfested plants and spray Quinalphos @ 0.05% or Chlorphyriphos @ 0.03% or Carbaryl @ 0.2%. Spraying/drenching may be done on all leaf axils, rhizome, surrounding soil and all the bore holes of pseudo stem made by larvae. Repeat the treatment after 3 weeks if infestation persists.
- Complete harvesting of **pepper**.

Tamilnadu

Northeast monsoon rains have ceased over the State on 28th December. Rain / thundershower is likely at isolated places over coastal Tamil Nadu and mainly dry weather likely to prevail over rest region of the State.

FROST WARNING: Ground Frost may occur at a few places over the hill ranges of **Nilgiris** district during next two nights.

Advisories

- Ground frost is likely to occur at a few places over Nilgiris district. Farmers are advised to adopt following measures to protect the crops from ground frost:
 - Apply irrigation and arrange for smoke near the field to safeguard the crops from 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.
- There was no significant rainfall during last few weeks in the State and rain/ thundershowers likely to occur at isolated places over only coastal Tamil Nadu for the next three days. Under the circumstances, apply irrigation to the standing crops to bring the soil moisture to its field capacity.
- Monitor **groundnut** for **red hairy caterpillar** and **leaf miner** and if the pest population crosses ETL, spray Monocrotophos @ 625 ml / ha to control **red hairy caterpillar**. Dust 4% Carbaryl or spray Methyl demeton @ 0.02% to control **leaf miner**.
- Undertake spraying of 2% DAP in pulse crops to enhance bud setting.

Karnataka

Mainly dry weather is likely over the State.

Advisories

- There was no rainfall during last few weeks and dry weather is likely to prevail for the next three days. Under the circumstances, apply irrigation to early sown **rabi** crops like **jowar**, **sunflower**, **wheat** and **maize** to bring the soil moisture to its field capacity.
- Undertake intercultural operations in **wheat** and **sugarcane** to keep the field weed free.
- Monitor **ratoon** sugarcane for **wooly aphids** and if the pest population crosses ETL, release *Dipha* sp, adopt wider spacing, inter-cropping with soyabean and pulses of short duration as plant protection measures against **wooly aphids** in **Mysore**, **Mandya** and **Hassan** districts.

Andhra Pradesh

Weather remained dry over the State during the period.

Mainly dry weather is likely to prevail over the State.

Advisories

- There was no significant rainfall during last few weeks over the State and dry weather is likely to prevail for the next three days. Under the circumstances, apply irrigation to *rabi* crops like **gram**, **maize**, **red gram** and **groundnut** to bring the soil moisture to its field capacity.
- Undertake land preparation and sowing of **maize** in Coastal Andhra Pradesh.
- Continue land preparation and nursery sowing of **rabi rice**. Transplanting may be undertaken at proper age of seedlings.
- Incidences of *Spodoptera exigua* has been reported in **gram** in **Kurnool**, **Kadappa** and **Anantpur** districts. Spray Thiodecarb @ 1 gm or Acephate @ 1gm or Chlorpyrifos @ 3 ml per liter of water to control the pest.

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

Assam

Weather was mainly dry over the state during the period.

Mainly dry weather is likely over the state.

Advisories

- As there was no significant rain in all the districts during last two weeks and mainly dry weather is likely over the State, apply irrigation to **wheat**, **rapeseed** and **mustard**, **potato**, **pea**, **lentil** and early sown **vegetables**.
- Continue harvesting of **sugarcane** and **arhar**. Red rot infested **canes** should be harvested early and field should be newly planted and rotooning should be discouraged.
- Apply first split dose of N @ 25 – 30 kg / ha at crown root initiation stage (20 – 25 days after sowing) and second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat**.
- Mild incidence of **Pod** and **apion borer** in **arhar**, **aphids** and **saw fly** in **mustard** and **late blight** in **tomato** is reported in a few localities.
- Monitor aphids and saw fly in **mustard** and if crosses economic threshold level, spray Rogor or malathion @ 2ml per litre of water.
- Monitor late blight of **tomato** and if crosses economic threshold level, spray Indofil M-45, alternatively Indofil Z-78 @ 25 gm in 10 litres of water.
- Continue land preparation and sowing of **winter vegetables** and **transplanting of rice**.
- Maintain 2 – 3 cm water in the **rice** field after 2 -3 days of transplanting.

Arunachal Pradesh

Sky remained cloudy on 2nd & 3rd January over the State. Rain / thundershower occurred at one or two places on 2nd & 3rd January and mainly dry on 1st January.

Mainly dry weather is likely over the State.

Advisories

- Mainly dry weather is likely to prevail for the next three days. Under these conditions, apply required irrigation to the standing crops.

- Intercultural operation may be continued as and when required in **mustard, ginger and winter vegetables**.
- First top dressing in early sown **potato** (33 Kg Urea / ha) followed by earthing up and spray with 1.25 kg Dithane M-45 in 500 litre water may be continued.

Bihar

Weather remained dry during the period.

Mainly dry weather is likely over the State. Intensity of fog is likely to decrease.

Advisories

- There was no significant rainfall during last week and mainly dry weather is likely over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in **vegetables, maize, pulses, oilseeds and wheat**.
- Weeding, intercultural operations and top dressing operation may be continued in **rabi maize, pulses / oilseeds and vegetable** crops.
- Preparation of nursery bed for sowing of **boro rice** may be undertaken.

Jharkhand

Weather remained mainly dry.

Mainly dry weather is likely over the State.

Advisories

- There was no rainfall during last week and mainly dry weather is likely over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in **vegetables, maize and early sown potato, pulses, oilseed and wheat** crops.
- Continue field preparation, sowing / transplanting of **onion, tomato, cabbage, cauliflower, brinjal, chilli, potato, garlic, pea and early summer vegetables**. To maintain optimum temperature in nursery beds, cover them with straw.
- Weeding, intercultural operation, application of fertilizer may be continued in early planted **vegetables, maize, rabi pulses, oilseeds and potato** crops.
- Monitor the crop for attack of **fruit borer in arhar** and to control the borer spray Monocrotophos (1ml / litre of water).

Sikkim

Sky remained generally cloudy during the period. Light to moderate rain occurred at many places on 28th December over East Sikkim. Very light rain occurred at a few places on 31st December. Rainfall was excess during the period.

Mainly dry weather is likely over the State.

Advisories

- Dry weather is likely to prevail over the State for the next three days. Under the circumstances, apply irrigation to **vegetables, mustard and wheat**.
- Undertake intercultural operations in **wheat, rabi vegetables and mustard** to keep the field weed free. Weeding must be done on monthly basis in mustard to remove *Satyanshi* weeds.
- Monitor **rabi vegetables** for pests like **leaf eating caterpillars** and if the pests population crosses ETL, undertake plant protection measures.

- Undertake weeding, application of fertilizers and pesticides in orchards particularly for **orange**.

West Bengal

During the period weather remained mainly dry throughout the State.

Weather will be mainly dry over the State.

Advisories

- As there was no significant rainfall in all the districts of the State during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to **sugarcane**, **rapeseed** and **mustard**, **gram** and **lentil**, **wheat** and **potato** crops.
- Apply first split dose of nitrogenous fertilizer (25 – 30 kg N / ha) at 20 – 25 days after sowing at crown root initiation stage and second split dose of nitrogenous fertilizer (25 – 30 kg N / ha) at 40 – 45 days after sowing at tillering stage of **wheat**.
- To check **Boron deficiency** in **wheat** spray Borax @ 5 g / litre of water on the standing crop.
- Monitor **blight** disease in **wheat** and in the event of occurrence of this disease, apply Mancozeb @ 2.5 g per liter of water and spray 2 times at an interval of 7 days.
- Uproot or rogue out and burn the wrinkle leaf affected plants of **potato**. The disease is spread by **white fly**. Spray dimethoate @ 2 ml per litre of water to control white fly.
- Land should be prepared and nursery sowing of **boro rice** may be carried out.
- Select varieties from CR-126-42-1, Khitish, IE-2233, PNR 381, IR-36, Lalat, Annada, Aditya, Tulsi etc. for short duration and Shasyasri, Prakash, Kunti, Ajaya, Pratap, Suraksha etc. for medium duration **boro rice**.
- There is mild chance of attack of **brown spot** disease in **rice** nurseries. If crosses economic threshold level, spray ediphenphos 50% @ 1 ml or triamiphos 48% @ 1 ml or carbendazim 50% @ 1 g to manage the disease. 750 litres of water is required for spraying 1 ha of land.

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

Gujarat

Weather remained dry during the period.

Mainly dry weather is likely over the State. Rise in night temperature over the state during next 1-2 days.

Advisories

- As there was no significant rain in the State during last few weeks and weather will be mainly dry over the State for next three days, apply irrigation to **pre-monsoon irrigated cotton**, **Kharif cotton**, **castor**, **mustard** and **wheat** to bring the soil moisture to field capacity.
- For monitoring & management of boll worms & heliothis of **cotton** hang 5 pheromance traps in one ha. Change the lures at an interval of 15 days. Destroy trapped moths every day. If boll worm population crosses economic threshold level, release parasite tricogamma @ 1.5 lakhs / ha and 5 to 6 times as per requirement depending upon infestation found in the field.
- There is mild chance of attack of aphids, mustard saw fly and jassids in **mustard**. If aphid population exceeds economic threshold level, spray pesticides phosphamidon @ 4 ml or dimethoate @ 10 ml or monocrotophos @ 12.5 ml in 10 liter water as per requirement. Second spray 10 to 15 days after first spray if required or dust the methyl parathion 2% powder or quinalphos 1.5 % @ 25 kg / ha.
- Prepare land and complete late sowing of **wheat** crop. For control of termite seeds should be treated with pesticide endosulphan 35 EC @ 700 ml in 5 litre of water for 100 kg of seeds before 24 hours of sowing.

- Apply first split dose of N @ 25 – 30 kg / ha at crown root initiation stage (20 – 25 days after sowing) and second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat**.

Chhattisgarh

Weather remained dry in the State during the period.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall in all the districts during last week and mainly dry weather is likely over the State for next three days, apply irrigation to **sugarcane, vegetables, gram, mustard, potato, linseed, safflower** and **wheat** and also to early sown **sunflower** wherever crops are at vegetative stage.
- Continue preparation of land and sowing of **sunflower** and planting of new crop of **sugarcane**.
- Select varieties from CO-62175, C.O.L.K.-8001 etc. for planting of **sugarcane**.
- Apply first split dose of N @ 25 – 30 kg / ha at crown root initiation stage (20 – 25 days after sowing) and second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat**.
- Undertake earthing up in 30 days old crop of **potato** and apply first split dose of 50 kg N / ha to potato crop.

Maharashtra

Mainly dry weather prevailed all over the State.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rain during last few weeks in the State and mainly dry weather is likely over the State for next three days, apply irrigation to **rabi jowar, safflower, rabi maize, sunflower, potato, onion, gram, sugarcane (Pre-seasonal)** and **wheat**.
- Inter culture operation may be done 2 to 3 times in **non-irrigated Jowar** to preserve moisture in the field.
- Second dose of 40 kg Nitrogen / ha may be applied to late sown **wheat** at 21 – 25 days after sowing after weeding.
- Second split dose of 30 kg N / ha may be applied to **Rabi sunflower**.
- Second dose of 50 kg Nitrogen / ha may be applied to **potato** before irrigation.
- To increase pollination at flowering stage in **sunflower**, hand covered with woolen cloth may be moved 3 to 5 times on floral disc smoothly day after day early in the morning.
- Mild incidence of **White Woolly Aphids** in Aurangabad and Latur & **Pyrilla, White fly & mealy bug** in Nashik and **white fly** in Latur division in sugarcane, **Aphids and Jassids** in Nagpur and Aurangabad and also **Lalya** disease in Amravati, Aurangabad and Nagpur and **Boll worm** in Latur and Amravati division in cotton and **leaf roller** in Nagpur and Aurangabad, **pod borer** in Amravati and Latur division in tur, **Aphids and Leaf cater pillar** in Nashik division and **Sugary disease** in Latur and Kolhapur division in **rabi jowar**, **Aphids** in Latur & **Aphids & Jassids** in Amravati division in safflower, **Rust** in Kolhapur division in wheat, **Pod borer** in Pune, Latur, Kohlapur, Amravati and Nashik division in gram and **Hairy cater pillar** in Kohlapur and Latur division in sunflower is reported.
- Monitor infested plant by **Sugary disease, aphids** in **rabi jowar** & if exceeds economic threshold level, spray 5% Neem extract or Diamethoate 500 ml or Methyl Dimeton 400 ml or Monocrotophos 300 ml / ha in 500 liter water.
- Monitor Aphids in **Safflower** and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 700 ml or 25 EC Quinolphos @ 1000 ml/ha in 500 liter water . Second spraying may be done

after 15 days.

- 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.
- Monitor Pod borer in **gram** and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 1000 ml or 25 EC Quinolphos @ 1000 ml / ha in 500 liters water.
- Monitor Hairy cater pillar in **Sunflower** and if exceeds economic threshold level, spray 5% Neem extract or spray 35% Endosulphon @ 1000 ml or 25 % Quinolphos @ 1000 ml / ha in 500 liters water or dust 10% Carbaril powder or 1.5% Quinolphos powder @ 25 kg / ha.
- There is mild chance of occurrence of blast disease in **onion**. For the control of Blast disease, spray Blitox or Indofil M-45 @ 1250 gm/ha in 500 liter water.

Madhya Pradesh

Dry weather prevailed over the State.

Mainly dry weather is likely over the State.

Advisories

- Apply irrigation and arrange for smoke near the field to safeguard the crops from cold 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.
- There was no rainfall in all the districts during the last few weeks and mainly dry weather is likely to prevail for the next three days over the State. Under the circumstances, apply irrigation to early sown *rabi* crops like **wheat, gram** and **mustard** to bring the soil moisture to its field capacity.
- Monitor **gram** for **leaf eating caterpillar**. If the pest population crosses ETL, spray Monocrotophos @ 750 ml / ha.

Orissa

Weather was dry over the State during the above period.

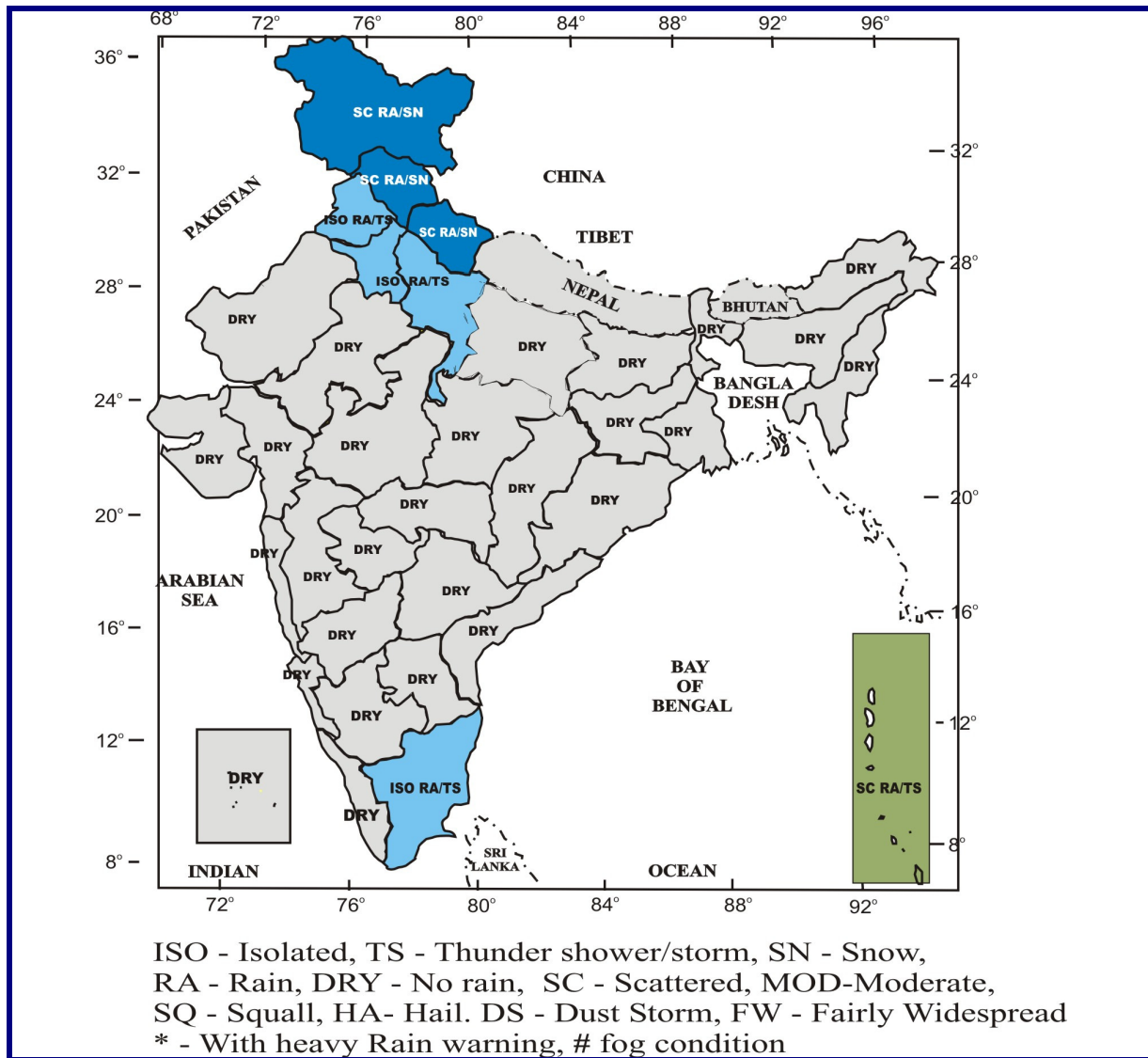
Mainly dry weather is likely over the State.

Advisories

- There was no rainfall in all the districts during last few weeks and mainly dry weather is likely over the State for next 3 days. Under the circumstances, apply required irrigation to **mustard, vegetables, groundnut** and **sugarcane** to bring the soil moisture to field capacity.
- Continue nursery preparation and sowing of *dalu* rice.
- Monitor the crop for **saw fly** in **mustard** and spray Endosulfan @ 2 ml / litre of water to control the pest if it crosses ETL.
- Monitor **brinjal** for **Epilachna beetle** and if it crosses ETL, spray Carbaryl @ 4 g / litre of water.
- Continue harvesting of matured **vegetables, sugarcane** and **pulse** crops.

Forecast Map

Valid upto 7th January 07



Salient weather features for the week ending 03/01/07

WITHDRAWAL OF NORTHEAST MONSOON

The northeast monsoon rains have ceased over Tamil Nadu, Kerala and adjoining parts of Andhra Pradesh and Karnataka on 28th December, 2006.

METEOROLOGICAL ANALYSIS

- A cyclonic circulation extending upto lower tropospheric levels lay over Assam & Meghalaya and neighbourhood during 28th December 2006 to 2nd January 2007. It moved eastwards and lay over Nagaland, Manipur, Mizoram & Tripura and neighbourhood on 3rd January 2007.
- A western disturbance as an upper air system lay over north Pakistan and neighbourhood on 30th December 06; over north Kashmir and neighbourhood on 31st December 06 and it moved away eastwards thereafter. However, dense fog occurred over plains of northwest India in the rear of this disturbance.
- A weak easterly wave affected Nicobar Islands on 28th December 06.

RAINFALL

Under the influence of the above systems:

- Isolated rain/thundershower occurred over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh during many days of the week.
- Scattered rain/thundershower occurred over Nicobar Islands on 29th December 06.
- Mainly dry weather prevailed over the remaining parts of the country during the week.

FOG

- Fog conditions prevailed over many parts of Indo-Gangetic plains during the week. However dense fog occurred over the western parts of the region during 31st December 06 and 1st January 07 and over eastern parts of the region during 2nd and 3rd January 07.

COLD WAVE

- Cold wave conditions prevailed over parts of Punjab and isolated pockets of Haryana and north Rajasthan on 29th-31st December 06 and on 3rd January 07. The minimum temperatures were below normal by 2-3°C over many places in the remaining parts in the plains of northwest India during many days of the week.
- Cold day conditions prevailed over some parts in the plains of northwest India on 1st and 2nd January 2007.

MINIMUM TEMPERATURES

- The minimum temperatures were below normal by 2-4°C over many parts of south peninsula during the week.
- They were above normal by 2-4°C over west India outside north Rajasthan during many days of the week.
- They were also above normal by 2-4°C over many parts of central India during 28th December to 1st January 2007 and were normal thereafter.
- They were above normal by 2-4°C over northeast India during the week except on last day when they were normal.
- They were below normal by 2-4°C over many parts of east India during 30th December 06 to 1st January 07 and only over Jharkhand and interior Orissa on 3rd January 07. They were normal on remaining days of the week.

RAINFALL DURING THE WEEK ENDING ON 3RD JANUARY, 2007.

Rainfall was excess/normal in 3, deficient/scanty in 1 and no rain in 32 out of 36 meteorological sub-divisions (Actual: 0.3 mm, Normal: 4.2 mm and Departure: -93%).

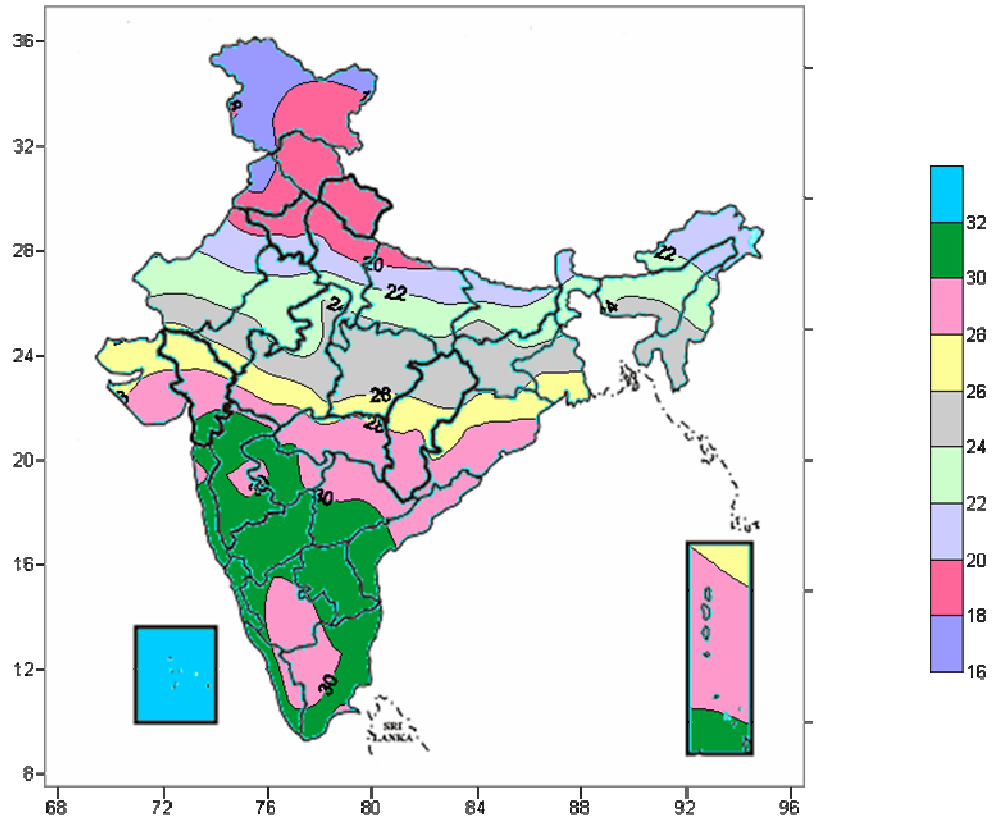
CUMULATIVE SEASONAL RAINFALL (1ST OCTOBER TO 31ST DECEMBER, 2006)

Rainfall was excess/normal in 9 and deficient/scanty in 27 out of 36 meteorological sub-divisions. (Actual: 99.3 mm, Normal: 125.9 mm and Departure: -21%).

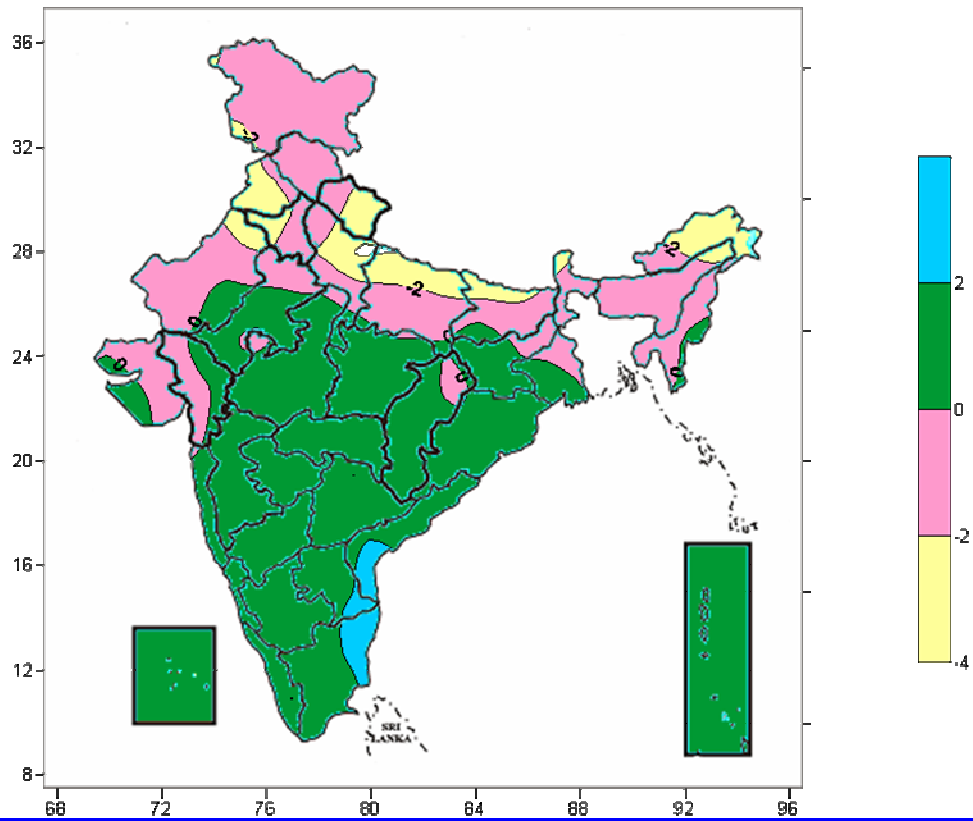
OUTLOOK FOR THE WEEK ENDING ON 10TH JANUARY, 2007.

- Isolated rain/thundershower is likely over Sub-Himalayan West Bengal & Sikkim and northeastern States during 8-9th January 07.
- Fog conditions and fall in night temperatures are likely over plains of northwest India during 7-9th January.
- A fresh western disturbance is likely to affect western Himalayan region from 10th January 07.

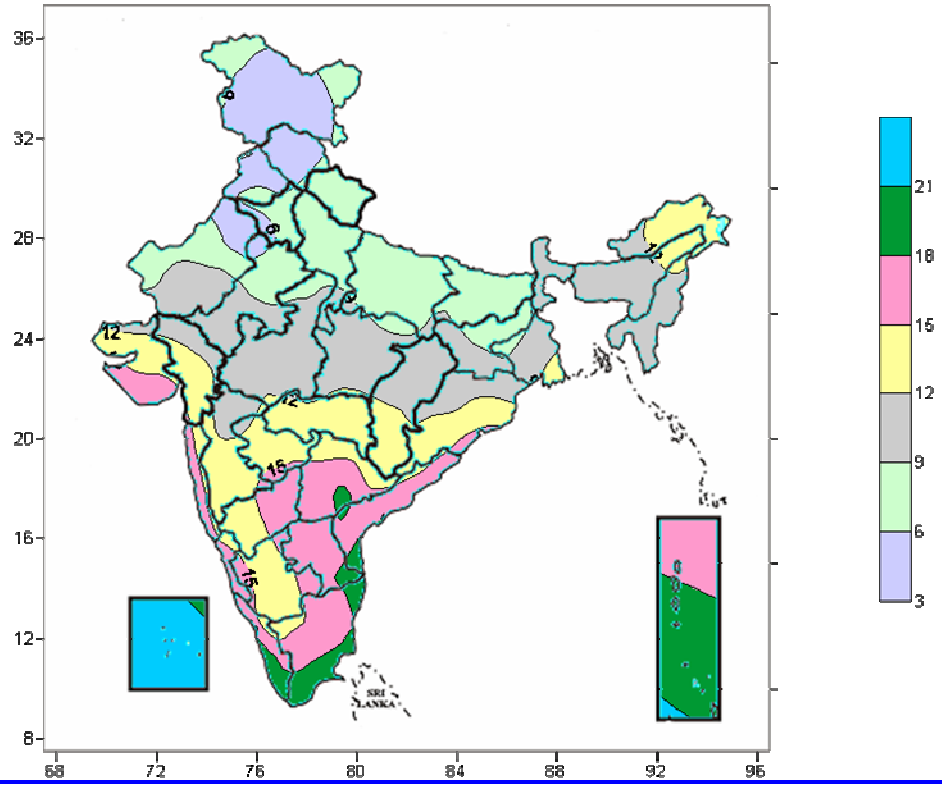
Actual mean maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 03.01.07



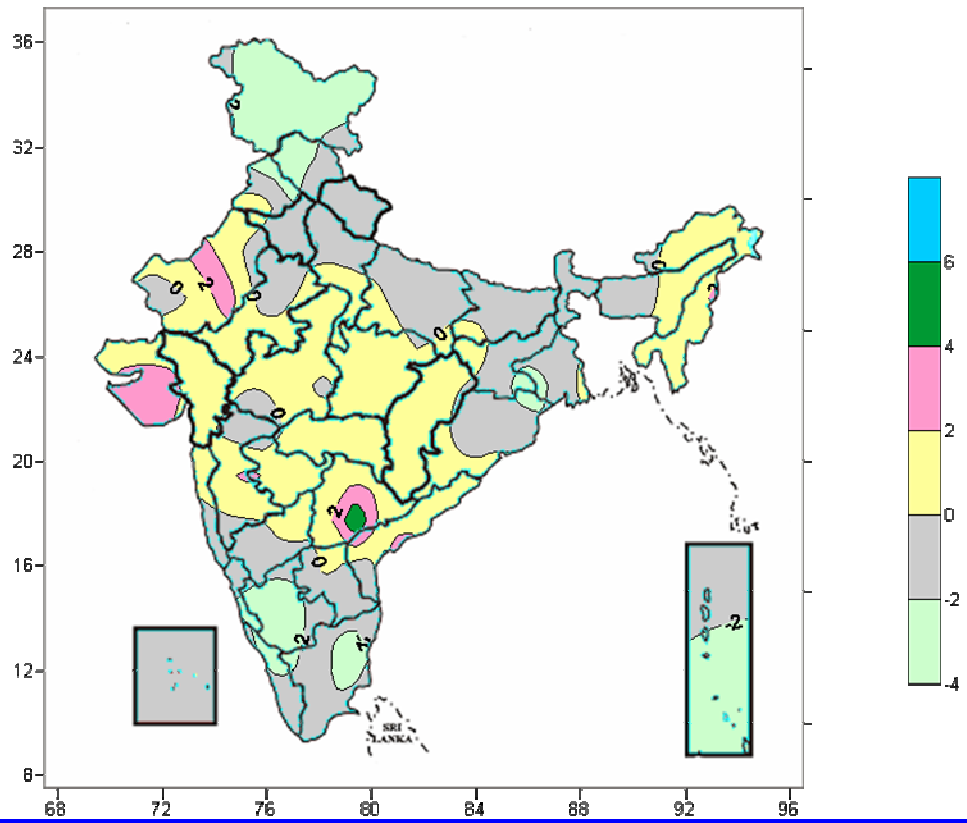
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 03.01.07



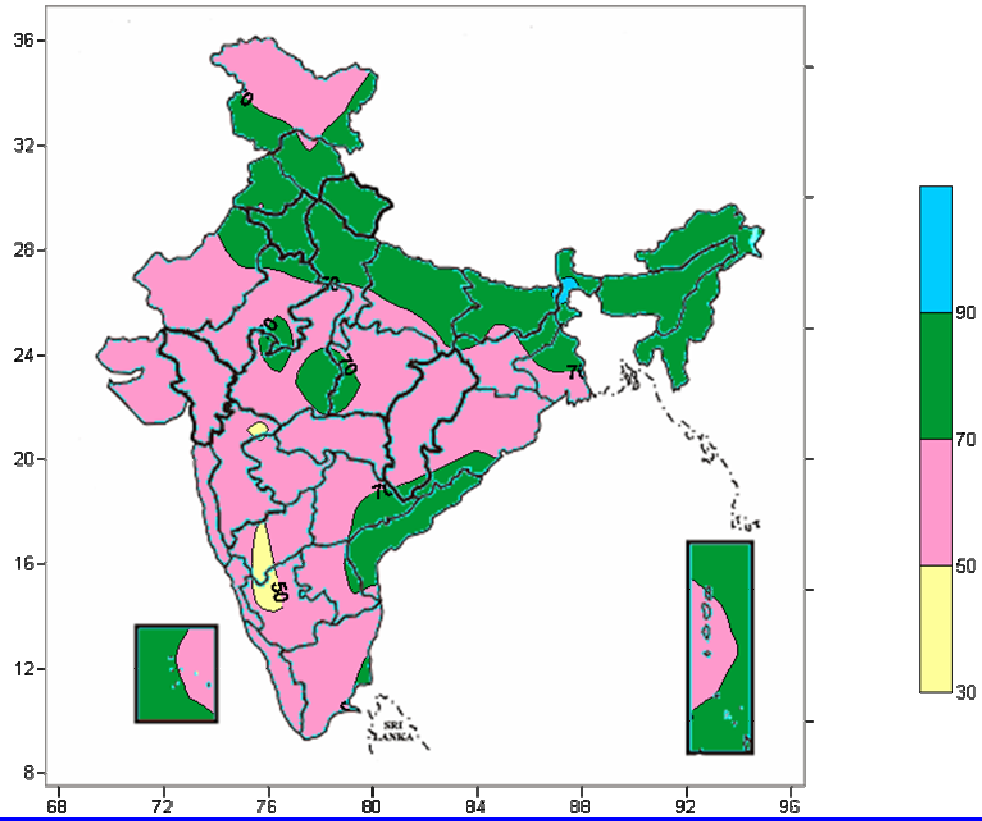
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 03.01.07



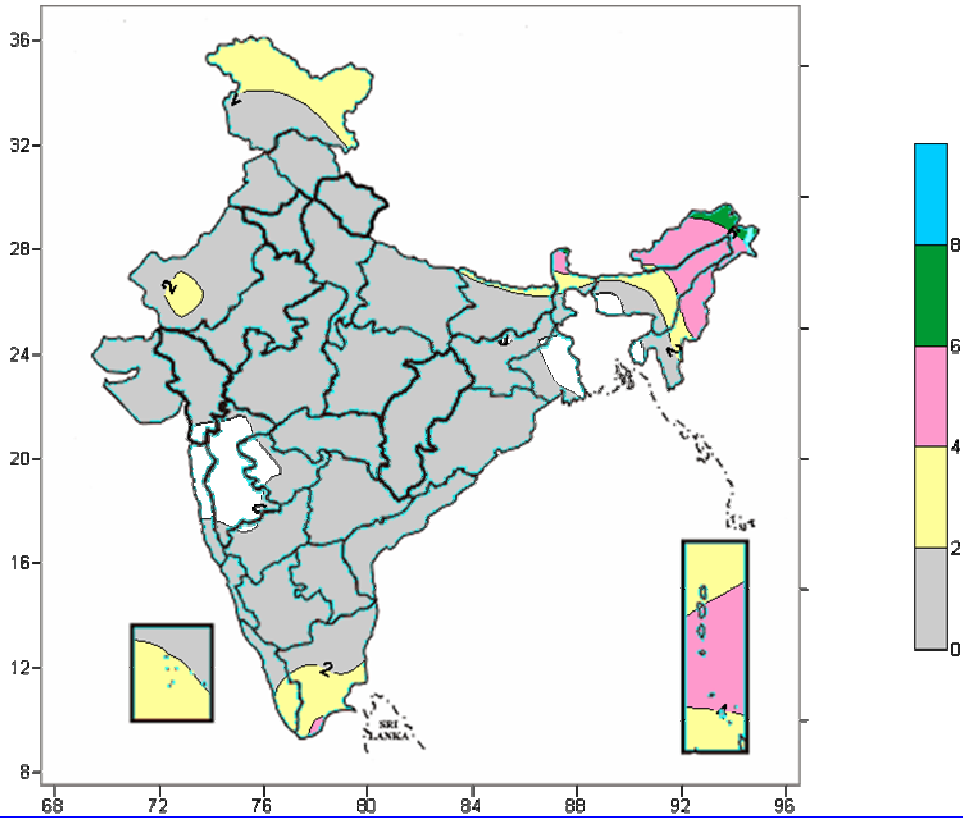
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 03.01.07



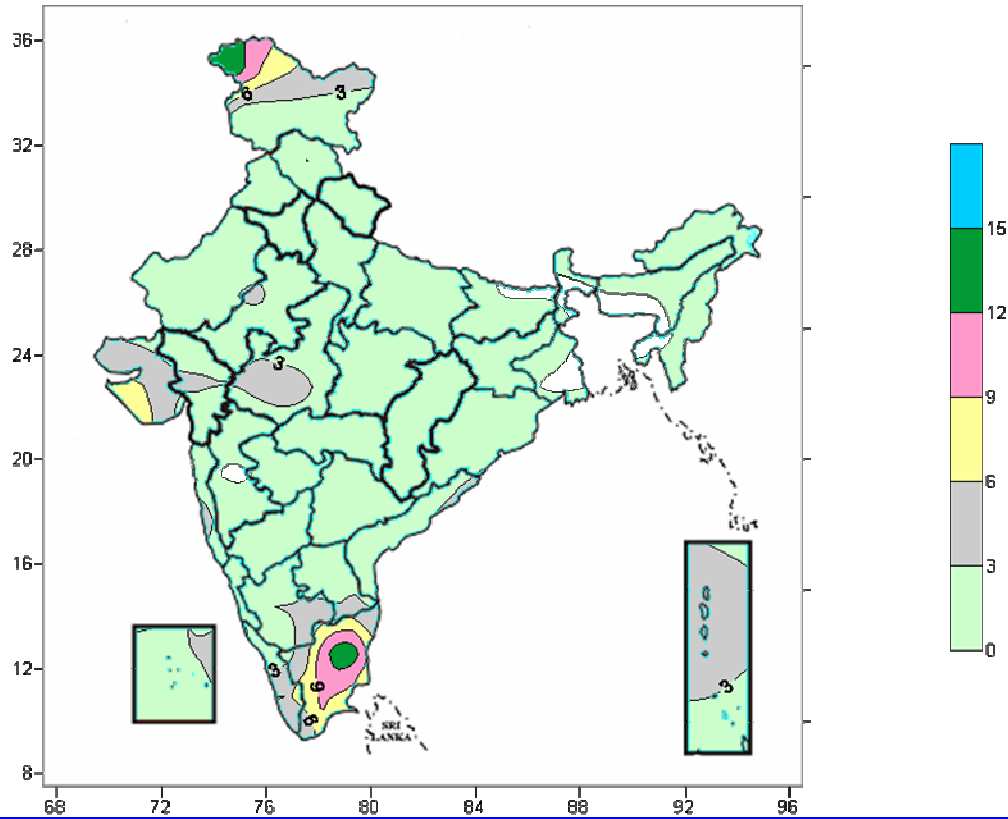
Relative humidity (%) over India for the week ending 03.01.07



Cloud amount (okta) over India for the week ending 03.01.07



Wind speed (knots) over India for the week ending 03.01.07



Desert Locust Forecasting



Rainfall (mm)							
Station Name	28.12.06	29.12.06	30.12.06	31.12.06	01.1.07	02.1.07	03.1.07
Amritsar	NIL						
Barmer							
Sriganganagar							
Jaisalmer							
Kota							
Deesa							
Churu							

Temperature (degree celcius)							
Station Name	28.12.06	29.12.06	30.12.06	31.12..06	01.1.07	02.1.07	03.1.07
Amritsar	11.0	12.5	11.0	9.5	8.5	7.5	7.0
Barmer	15.0	-	16.0	16.0	18.0	17.0	-
Sriganganagar	14.5	13.0	12.5	12.5	12.5	11.5	-
Jaisalmer	14.5	15.0	15.0	17.0	17.0	16.0	16.0
Kota	18.0	17.0	17.0	19.5	18.5	19.0	17.5
Deesa	20.0	20.0	20.0	-	21.0	19.5	19.5
Churu	-	-	-	-	-	-	-

Wind														
Station Name	28.12.06		29.12.06		30.12.06		31.12..06		01.1.07		02.1.07		03.1.07	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	12	WNW	-	-	-	-	-	-	-	-	-	-	09	WNW
Barmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sriganga nagar	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kota	05	WNW	-	-	-	-	-	-	07	W	04	WNW	W	06
Deesa	06	SSW	15	SW	-	-	-	-	04	WNW	06	WSW	04	N
Churu	-	-	06	WSW	-	-	-	-	-	-	-	-	-	-

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

CROP – STATE – STAGE

Delhi

Barley /Gram	Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot,and turnip	Early sown vegetable crops	Wheat	Mustard
Vegetative	Sowing/ Transplanting	Vegetative/ flowering/ fruiting/ harvesting	Crown root initiation / tillering	Vegetative / flowering

Haryana

Horticultural crop	Sugarcane	Gram /Lentil	Rabi oilseeds	Wheat
Vegetative	Vegetative	Early vegetative	Vegetative	Tillering
Toria	Sunflower			
Maturity / harvesting	Sowing			

Himachal Pradesh

Wheat	Gram	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley
Early vegetative/Crown root initiation/Tillering	Vegetative	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Early vegetative/Vegetative
	Rape seeds and Mustard		Radish, Turnip, Carrot	
	Vegetative		Sowing	

Jammu & Kashmir

Vegetable crops	Toria / Brown Sarson	Mustard	Gram	Wheat
Vegetative	Seed formation	Siliqua formation	Pod formation/development	Vegetative/tillering
		Pea / Lentil		
		Pod formation/development		

Punjab

Sugarcane	Rabi oilseeds	Gram/Lentil	Horticultural crop	Wheat
Vegetative	Vegetative	Vegetative	Vegetative	Early vegetative / tillering
Toria	Sunflower			
Maturity / harvesting	Sowing			

Rajasthan				
Mustard	Wheat	Cumin	Gram	Barley
Vegetative/Flowering	Tillering	Vegetative	Vegetative/Flowering	Tillering
Uttar Pradesh				
Wheat / Barley	Rabi pulses	Sugarcane	Mango	Winter Vegetables
Seedling/Early vegetative	Vegetative / flowering	Harvesting	Active growth / matured tree	Vegetative
	Rabi Oilseeds(Rai and Mustard)	Toria		
	Vegetative / flowering	Seed formation/Maturity		
Uttaranchal				
Pea	Mango/Litchi	Wheat	Sugarcane	Toria
/Harvesting	Active growth	Tillering	Maturity / harvesting	Pod maturity
Potato				
Tuber growth				
Assam				
Early sown Vegetables	Sugarcane	Wheat	Vegetables	
Vegetative	Harvesting	Crown root initiation / tillering	Land preparation / sowing	
Pea, Lentil and Potato	Arhar	Rape seed and Mustard	Boro Rice	Early transplanted Boro Rice
Vegetative	Maturity/Harvesting	Flowering / pod formation	Transplanting	Early vegetative
Arunachal Pradesh				
Mustard	Ginger	Potato	Wheat	Winter vegetables
Vegetative	Vegetative	Early vegetative	Crown root initiation/Vegetative	Vegetative /Harvesting
Bihar				
Fruits and Vegetables	Winter vegetables	Wheat	Early sown Wheat	Rabi Maize
Vegetative	Sowing / transplanting	Seedling/Early vegetative	Vegetative	Vegetative / Flowering
Boro Rice	Potato	Rabi Oil seeds (Toria, Sarson, Linseed)	Rabi Pulses (Lentil, Gram, Pea)	
Field preparation / nursery sowing	Early vegetative	Vegetative / Flowering	Flowering / Pod formation	
Jharkhand				
Rice	Rabi Maize	Wheat	Potato	
Harvesting	Vegetative	Seedling / early vegetative	Vegetative	
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)	Early planted vegetables	Rabi pulses and oilseeds (Gram, masoor, lentil, linseed, oat, mustard and kusum)	Rabi pulses and oilseeds (Arhar)	
(Sowing / transplanting - Onion, Pea)	Vegetative	Vegetative	Pod formation	
Sikkim				
Orange	Mustard	Rabi vegetables	Wheat	
---	Late Vegetative	Late Vegetative	Vegetative	
West Bengal				
Boro rice	Sugarcane	Wheat	Rapeseed and Mustard	Gram/ Lentil
Field preparation / nursery sowing	Cane development	Crown root initiation / tillering	Vegetative / flowering	Vegetative/ Flowering
	Potato			
	Earthing up/tuber formation			
Chattisgarh				
Gram / Mustard	Vegetables (Tomato, chilli, brinjal)	Sugarcane	Wheat	Linseed, Safflower,
Vegetative / branching	Vegetative	Cane development	Early vegetative / crown root initiation / tillering	Vegetative
Sunflower	Early Sown Sunflower	Potato	New crops Sugarcane	
Field preparation / sowing	Germination / early vegetative / vegetative	Earthing up	Planting	

Gujarat

Mustard	Wheat	Pre-monsoon irrigated Cotton	Castor	Sugarcane
Flowering / pod formation	Land preparation / sowing	Boll formation / picking	Flowering / Pod formation	Maturity / Harvesting
Kharif Cotton	Early Sown Wheat	Summer Rice		
Square / boll formation	Germination / early vegetative / crown root initiation / tillering	Preparation of rice nursery		

Maharashtra

Sugarcane (Seasonal) (Madhya Maharashtra, Marthwada and Vidarbha)	Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Tur (Madhya Maharashtra, Marathwada & Vidarbha)	Irrigated Cotton	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)
cane maturity / harvesting	Boll maturity / picking	Pod maturity / harvesting	Boll formation / boll maturity / picking	Flowering / grain formation
Safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Wheat (Madhya Maharashtra, Marathwada & Vidarbha)	Gram (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Maize (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)
Flowering / head formation	Crown root initiation / tillering	Flowering / pod formation	Tasseling / Silking/cob initiation	Floral bud formation / flowering
Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)		
Sprouting / early vegetative	Earthing up / tuber formation	Vegetative / bulb formation		

Madhya Pradesh

Wheat	Mustard	Gram	Masoor	Linseed
Flowering	Flowering	Flowering	Flowering	Flowering
Irrigated Wheat				
Vegetative				

Orissa

Vegetables	Dalua Rice	Mustard	Pulses	Early sown pulses
Flowering / Fruiting / Harvesting	Nursery preparation, sowing /Transplanting (in some parts)	Vegetative / Flowering	Vegetative / flowering (Biri / Mung / Kulthi)	Pod maturity
Sugarcane	Rabi Groundnut			
Maturity / harvesting	Vegetative / flowering			

Andhra Pradesh

Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice
Vegetative	Vegetative	Vegetative (Prakasam)/Pod formation (Telangana, Rayalaseema)	Vegetative	Raising nursery / transplanting

Karnataka

Sugarcane (Ratoon crop)	Rabi Wheat	Rabi jowar, Sunflower and maize		
Vegetative	Tillering/heading	Grain formation		

Kerala

Rubber	Mundakan rice	Pepper		
Tapping	Grain development	Harvesting		

Tamil Nadu

Rice (Samba)	Millets	Cotton	Early & mid sugarcane	Oilseeds (Groundnut,)
Tillering	Vegetative	Vegetative	Harvesting	Vegetative
Sunflower	Pulses (Blach gram and Green gram)	Thaladi Rice		
Vegetative	Vegetative	Raising Nursery		
