



Summary of Agromet Advisory Services for different States of the country
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(For the period 8th February to 12th February, 2007)

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

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

Punjab

Light rain / thundershowers have occurred at isolated places in the state on 6th and 7th February. Weather remained dry on rest of the days.

Mainly dry weather is likely over the State for next 24 hours. Isolated to scattered rain / thundershower is likely over the State for remaining period.

Advisories

- There was no significant rainfall in the State during last few weeks and mainly dry weather is likely over the State for next 24 hours. Isolated to scattered rain/thundershower is likely over the State for remaining period. Under the circumstances, apply irrigation in **sugarcane, rabi oilseeds, gram, lentil and wheat**.
- Attack of **late blight** is reported in **potato**. In order to check further spread of the disease, spray Dithane M-45 @ 500 g/acre.
- Monitor **rabi oilseeds** for **aphid** attack and if the pest population crosses ETL, spray Dimecron @ 250 ml / ha or Methyl Demiton @ 850 ml / ha.
- Spray one litre Endosulfan 35 EC in 650 litres of water to control **aphids** in **wheat**.

Haryana

Light rain / thundershowers have occurred at a few places in the State on 6th and 7th February. Weather remained dry on rest of the days.

Mainly dry weather is likely over the State for next 24 hours. Isolated to scattered rain / thundershower is likely over the State for remaining period.

Advisories

- There was no significant rainfall during last few weeks and mainly dry weather is likely over the State for the next 24 hours. Isolated to scattered rain/thundershower is likely over the State for remaining period. Under the circumstances apply irrigation to **sugarcane, gram, lentil and wheat**.
- Attack of **late blight** is reported in **potato**. In order to check further spread of the disease, spray Dithane M-45 @ 500 g/acre.
- Continue sowing of **sunflower**.
- Attack of **stem borer** and **termite** is reported in **wheat**. Spray Endosulfan 35 EC @ 1.5 ml / litre of water to control stem borer.
- Apply Aldrin 30 EC @ 5 litres / ha in irrigation water to control **termite** in **wheat**.
- 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 ml of water per acre.

Rajasthan

Rain / thundershowers occurred at isolated places in Jaipur, Jodhpur and Bikaner divisions and remained mainly dry in rest divisions of the State.

Isolated rain / thundershower is likely from 9th February onwards over the State. Rise in night temperatures by 2-3°C during next 2 days.

Warning: Hail storm may occur at isolated places in northern parts of the state.

Advisories

- Apply irrigation to **mustard, wheat, gram, cumin** and **barley** as there was no significant rainfall during last few weeks and isolated rain / thundershower is likely from 9th February onwards over the State.
- Monitor **gram** for **pod borer** and if the pest population crosses ETL, undertake plant protection measures.
- Cloudy weather conditions are favourable for **aphid** attack in **cumin** and if the pest population crosses ETL, undertake plant protection measures.
- Apply Endosulfan 35 EC @ 2.285 litres / ha or Chloropyriphos 20 EC @ 4 litres / ha to prevent the attack of **termite** in **wheat**.

Uttar Pradesh

Weather was mainly dry in all divisions of the State. Rain / thundershowers occurred at isolated places in Gorakhpur, Varanasi, Allahabad, Kanpur, Lucknow, Bareilly and Agra divisions. Weather was mainly dry in rest divisions of U. P.

Mainly dry weather is likely over the State during next 24 hours. Isolated to scattered rain/thundershower is also likely over west U.P. Night temperature is likely to increase by 2-3 °C over west U.P. Isolated rain / thundershower is likely over East U.P. during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rainfall during last week and mainly dry weather or isolated to scattered rain/thundershower is likely over the State. Under these circumstances, apply required irrigation to **rabi oilseed, pulses** and **winter vegetable** crops.
- Monitor **mustard** crop for **sawfly** and **mahu** and if the pests population crosses ETL, spray Endosulphan @ 1.25 litres / ha to control the pests.
- Monitor **mango** for **hopper** and if the pest population crosses ETL, spray Monocrotophos @ 1 ml / litre of water to control the pests.
- Harvesting of **sugarcane** and **toria** may be continued.

Himachal Pradesh

The precipitation was occurred at a few places in the State.

Mainly dry weather is likely over the State during next 24 hours. Isolated to scattered rain/snow is likely over the State for remaining period.

Advisories

- As there was no significant rain during last few weeks over the State and mainly dry weather is likely over the State during next 24 hours and isolated to scattered rain / snow is likely for remaining period, apply irrigation to **vegetable** crops, **gram, rapeseed** and **mustard, wheat** and **barley**.
- Continue land preparation and nursery sowing and transplanting of **cauliflower** and **cabbage** in low and mid hills.
- Apply second split dose of N @ 25 – 30 kg / ha on a non-rainy day at tillering stage (40 – 45 days after sowing) of **wheat**.
- There is mild chance of attack of **pod borer** in **gram**. If attack crosses economic threshold level, spray Monocrotophos (Monocil 36 EC/SL) or Carbaryl 50 WP (Sevin) @ 875 ml or Endosulfan 35 EC (Thiodan/Hindon/Endocel) @ 1250 ml in 625 litres of water per ha on a non-rainy day. Spraying can be repeated at 15 days interval, if the pest still persists.
- Undertake nursery preparation of **onion** with N – 53 variety.

Uttarakhand

Light rain was recorded at isolated places on 7th February and very light rain was recorded at a few places on 6th - and 7th February. Mainly dry weather prevailed during rest of the week. Sky remained mainly clear to generally cloudy during the week.

Mainly dry weather is likely over the State during next 24 hours. Isolated to scattered rain / snow is likely over the State for remaining period.

Advisories

- Apply irrigation to **mango**, **potato** and **wheat** crops as there was no significant rainfall during last week in the State.
- Continue harvesting matured crops of **toria**, **sugarcane** and **pea**.
- Monitor **mango** for **mealy bug** and **gall midge**. If the pest population crosses ETL, spray Monocrotophos @ 1 ml / liter of water to control **mealy bug** and spray Dimecron @ 0.3 ml / liter of water to control gall midge. Spraying may be undertaken on a non rainy day from 9th onwards.
- Monitor **litchi** for **mite** attack. Spray Dimethoate @ 0.05% to control mite. Spraying may be undertaken on a non rainy day from 9th onwards.
- Undertake planting of **potato** in hilly areas after 12th.

Jammu & Kashmir

Light to moderate rain / snow occurred at isolated places on 6th & 7th February over J & K State. Weather remained mainly dry on 5th February over J & K State.

Mainly dry weather is likely over the region during next 24 hours. Subsequently isolated to scattered rain / snow 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.
- Apply irrigation to **mustard**, **wheat**, **peas** and **rabi** vegetables.
- There are chances of **termite** attack in **wheat** and **barley**. Apply Endosulfan 35 EC @ 2.285 litres / ha or Chloropyriphos 20 EC @ 4 litres / ha to prevent the attack. Spraying may be continued on a non rainy day from 9th onwards.
- Continue planting of new saplings in **orchards**. Cover the early planted saplings with **sarkanda** to prevent from cold injury.

Delhi

Weather remained dry during the period.

Mainly dry weather is likely over the State during next 24 hours. Isolated to scattered rain / thundershower is also likely over the State for remaining period.

Advisories

- As there was no significant rainfall during last few weeks and mainly dry weather is likely over the State during next 24 hours and isolated to scattered rain / thundershower is also likely over the State for remaining period, apply irrigation to **early sown vegetable crops** and also to **barley**, **gram**, **mustard** and **wheat** to bring the soil moisture to its field capacity.
- Apply second irrigation at tillering stage (40 – 45 days after sowing), third irrigation at 60 – 65 days and fourth irrigation at 80 – 85 days after sowing of **wheat**.
- Prepare land and perform sowing of **pumpkin**.

- Apply second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat** on a non-rainy day.
- If purple bleach disease is noticed in **onion**, apply dithane M-45 or dithane Z-78 @ 2 kg / ha on a non-rainy day.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Mainly dry / dry weather prevailed 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 mainly dry weather is likely over the State for the next three days. Under the circumstances, apply irrigation to **plantation crops** to bring the soil moisture to its field capacity.
- Stop irrigation 15 days prior to harvest of **mundakan rice**. Continue harvesting of the matured crop.
- Attack of **leaf eating caterpillar** is reported in **coconut**. Cut and burn the affected leaves. Release larval and pupal parasitoids to control the pest biologically.
- Attack of **bunchy top disease** is reported in **banana**. Apply 12.5% Phorate 10G or 10 g Carbofuran 3G / plant in leaf axil or 25 g Phorate or 20 g Carbofuran / pit in soil.
- Attack of **spindle bug** is reported in **arecanut**. Spray Carbaryl @ 4 g / litre of water to control the pest.

Tamilnadu

Dry weather prevailed over the State on 5th, 6th and 7th February.

Mainly dry weather is likely over the state outside coastal Tamil Nadu where isolated rain / thundershower is likely from 10th onwards.

Warning: Ground frost is likely to occur at a few places over the hill ranges of Nilgiris district during next two nights.

Advisories

- Apply irrigation to **rice, millets, sunflower, cotton** and **groundnut** as there was no significant rainfall for the last few weeks and dry weather or isolated rain is likely to prevail / occur for the next three days.
- Continue planting of **early sugarcane**.
- 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. Spray Methyl demeton @ 0.02% to control leaf miner.
- Start harvesting of matured crops of **millets** and **pulses**.

Karnataka

Dry weather prevailed over the State on all the days.

Mainly dry weather is likely over the State.

Advisories

- Apply irrigation to **groundnut, sunflower, rice** and **pulses** as there was no significant rainfall during last few weeks and mainly dry weather is likely to prevail for the next three days.
- 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.
- Also monitor **sugarcane** for **army worm** in **Bidar** and **Bagalkote** districts and if the pest population crosses ETL, undertake plant protection measures.

Andhra Pradesh

Dry weather prevailed 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 **maize**, **rice**, **red gram** and **groundnut** to bring the soil moisture to its field capacity.
- Attack of **stem borer** is reported in **maize**. To control stem borer spray Endosulfan @ 2ml / l of water.
- Attack of **thrips** is reported in **groundnut**. To control thrips spray Monocrotophos @ 1.6 ml / l of water + neem oil @ 5 ml + washing powder @ 5gm / liter of water twice at 10 – 15 days interval.
- Attack of **blast** is reported in **rice**. Spray Tricyclozole @ 0.5 gm or Edfenophos @ 1 ml / litre of water. Also monitor the crop for stem borer and if the pest population crosses ETL, spray Methyl Parathion @ 350 ml / ha.
- Attack of **Maruka stem borer** is reported in *rabi* **red gram**. Spray Dichlorovos @ 1ml + Chlorpyrifos @ 2.5 ml / liter of water to control the pest.
- Start harvesting matured crop of **bengal gram**.

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

Assam

Light to moderate rain occurred at many places on 5th & 6th and at a few places on 7th over the state.

Rain / thundershower is likely at a few places over the State for next 48 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rain during last few weeks and rain / thundershower is likely at a few places over the State for next 48 hours and mainly dry weather thereafter, apply irrigation to **wheat**, **potato** and early sown **vegetables**.
- Continue harvesting of **sugarcane**, **arhar**, **rapeseed** and **mustard**, **pea** and **lentil**. Red rot infested **canes** should be harvested early and field should be newly planted and rotooning should be discouraged.
- Apply second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat** on a non-rainy day.
- Mild incidence of **red rot** in **sugarcane**, **pod** and **apion borer** in **arhar** and **late blight** in **tomato** is reported in a few localities.
- 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.
- There is mild chance of attack of **aphids** and **stem borer** and **leaf blight** and **leaf spot** diseases in **wheat**. Apply Dimecron 100 E.C. @ 0.5 ml per litre of water or Malathion 50 E.C. @ 2 ml per litre of water to control aphids and stem borer. For control of leaf blight and leaf spot diseases apply Diathane Z -78 @ 2.5 gm per litre of water.
- There is mild chance of attack **Hispa**, **Brown Plant Hopper** and **blast** and **sheath blight** diseases in **rice**. If crosses economic threshold level, to control Hispa and Brown Plant Hopper insecticides like Chlorpyrifos 20E.C. @ 1.5 ml per litre of water or Phosphamidon @ 1ml per litre of water is to be applied. For control of Blast diseases as soon as 1 or 2 spots on leaf are seen Hinosan 50 E.C. @ 1ml per litre of water or Blitox @ 4gm per litre of water is to be applied and spraying is to be continued at an interval of 10-15 days till the diseases is controlled. For control of sheath blight diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.
- Apply the plant protection measures on a non-rainy day.
- Maintain 3 – 5 cm water at tillering stage in the **rice** field.

Arunachal Pradesh

Sky remained cloudy over the State. Rain / thundershower occurred at a few places on 5th February and most places on 6th February and at a few places on 7th February.

Rain / thundershower is likely at a few places over the State during next 48 hours and mainly dry weather thereafter.

Advisories

- There was no significant rainfall in the State during last few weeks and rain / thundershowers is likely over the State at a few places during next 48 hours and mainly dry weather thereafter. Under these conditions, apply required irrigation to **winter vegetables, potato, mustard, wheat** and **ginger** crops.
- Intercultural operation may be continued in **mustard, ginger** and **winter vegetables**.
- Monitor **mustard** crop for **aphid** infestation. The crop should be protected from aphids by spraying of Metasystox (1ml per liter water) or neem based insecticide (2 ml / litre of water) if crosses economic threshold level.
- Continue harvesting of matured crop of **potato**.

Bihar

Weather was mainly dry.

Isolated rain / thundershower is likely over the State during next 24 hours & mainly dry weather thereafter.

Advisories

- There was no rainfall during last few weeks and isolated rain / thundershower is likely over the State during next 24 hours & mainly dry weather thereafter. Under the circumstances, apply required irrigation to **potato, vegetables, maize, pulses, oilseeds** and **wheat**.
- There is mild chance of attack of **late blight** in **potato**. If **late blight** attack crosses economic threshold level, spray Mancozeb @ 2 kg / ha or Mancozeb mixed with Metalaxyl @ 2 kg / ha. 2-3 spraying may be required at an interval of 15 days.
- There is mild chance of attack of **blight** in **pulses**. If **blight** attack crosses economic threshold level, spray Mancozeb mixed with Carbendazim which is available in market or saaf @ 2 kg / ha.
- There is mild chance of attack of **aphids** in **rai** and **sarson**. If attack of **aphids** crosses economic threshold level, spray Imidachlorpid @ 100ml / ha or Acephate @ 800 g / ha in evening hours.
- Monitor **rabi maize** for pest and diseases and if there is considerable symptom of leaf blight on leaves spray Mancozeb @ 2.5 kg / ha.
- Prepare land and continue sowing of summer vegetables like **bhindi, bottle gourd, sponge gourd** and transplanting of **boro rice**.
- Apply N @ 50 kg, P₂O₅ @ 50 kg and K₂O @ 50 kg / ha at the time of land preparation and transplant 2 – 3 plants per hill in **boro rice** field.

Jharkhand

Weather remained mainly dry. Minimum temperature was appreciably above normal at most places in the State.

Isolated rain / thundershower is likely over the State during next 24 hours & mainly dry weather thereafter.

Advisories

- There was no rainfall during last few weeks and isolated rain / thundershower is likely over the State during next 24 hours & mainly dry weather thereafter. Under the circumstances, apply required irrigation to **vegetables, maize** and **potato, pulses, oilseed** and **wheat** crops.
- Continue field preparation and sowing of summer vegetables like **pumpkin, Kadima, Khira, watermelon**, and **kharbooj**.

- If **early Blight** appears in **potato** and crosses economic threshold level, it may be protected by spraying of Mancozeb (2.5 gm per liter of water) or Ridomil (1.5gm per litre).
- **Beans, pulses and oilseed** crops may be affected by **aphids**. If aphid population crosses economic threshold level, the crops are to be protected by application of neem based insecticide Nimarine or Venguard @ 5 ml per litre water or Metasystox @ 1 ml / litre of water.
- There is mild chance of attack of **pod borer** in **arhar**. If crosses economic threshold level, spray Monocrotophos @ 1ml / litre of water.

Sikkim

Sky remained generally cloudy during the period. Light to moderate rain occurred at many places on 1st, 5th, & 7th February over East Sikkim. Very light rain occurred at a few places on 4th & 6th February. No rain occurred on 2nd & 3rd February during the week.

Isolated rain / thundershower are likely over the State for next 24 hours. Mainly dry weather thereafter.

Advisories

- Apply irrigation to **vegetables, mustard, large cardamom** and **wheat** as rain / thundershower is likely to occur at isolated places only over the state for the next 24 hours.
- Monitor **rabi wheat** for pests and if the pests population crosses ETL, undertake plant protection measures.
- Monitor **large cardamom** for **stem borer** and undertake plant protection measures to prevent further damage. Remove **Chirkey** and **Foorkey** affected plants and destroy the affected plants completely.

West Bengal

During the said period very light to light rain occurred at a few places along with moderate rain at isolated places on 5th, very light to light rain at many places along with moderate rain at isolated places on 6th and very light to light rain at most places along with moderate rain at isolated places on 7th over the districts of Sub Himalayan West Bengal. More over very light to light rain occurred at isolated places on 5th and very light rain at isolated places on 7th occurred over the districts of Gangetic West Bengal.

Rain / thundershower is likely over the region during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rainfall in the State during last few weeks and rain / thundershower is likely over the region during next 24 hours and mainly dry weather thereafter, apply irrigation to **sugarcane, rapeseed and mustard, gram and lentil, wheat and potato** crops.
- Land should be prepared and transplanting of **boro rice** may be carried out. Prepare land and transplant 2 – 3 plants per hill in rice field. Apply N @ 50 kg, P₂O₅ @ 50 kg and K₂O @ 50 kg per ha at the time of land preparation.
- Apply 25 – 30 kg N / ha at 3 weeks after transplanting of **boro rice**. Maintain 3 – 5 cm water in the field at tillering stage.
- Monitor brown rust disease in **wheat** and in the event of occurrence of this disease, apply carboxyn or oxycarboxyn @ 1 gm per liter of water if more than 20 % plants are affected by the disease.
- Keep vigilance against infestation of loose smut disease of **wheat**. Wrap the disease affected inflorescence with wet gunny bag and burn the same to prevent spreading of the disease.
- 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.
- There is mild chance of attack of late blight disease in **potato**. If attack crosses economic threshold level, apply mancozeb @ 2.5 g per litre of water at 7 – 10 days interval.

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

Gujarat

During the period weather was mainly dry.

Isolated rain / thundershower is likely from 9th February onwards over Saurashtra and Kutch. Mainly dry weather is likely over rest part of the State. Rise in night temperature by 2-3⁰C.

Advisories

- As there was no significant rain in the State during last few weeks and only isolated rain / thundershower is likely from 9th onwards over Saurashtra and Kutch and mainly dry weather is likely over rest part of the State for next three days, apply irrigation to **castor**, **mustard** and **wheat** to bring the soil moisture to field capacity.
- Continue harvesting of already matured crops of **sugarcane**. Harvest the crop when brix reading of sugarcane is 19 or more unit.
- Prepare land and continue transplanting of **rice** seedling. Transplant 2 – 3 plants / hill. Maintain 2 – 3 cm water in rice field 2 – 3 days after transplanting.
- 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.
- There is mild chance of attack of semi looper in **castor**. For controlling semi looper spray endosulphan 35 EC or quinalphos 25 EC or Monocrotophos 36% SL at the interval 15 days.
- Prepare field for sowing of **summer groundnut** by 1 or 2 ploughings. Before ploughing apply 8 to 10 MT compost or 1 MT castor cake in the field. Select varieties from J-11, GG-2, 4, 6, TG-26, ICGS-37, 44. Adopt spacing of 22.5 to 30 cm between the rows. Apply 25 kg N, 50 kg P₂O₅ at the time of sowing as basal dose.

Chhattisgarh

Weather remained dry in the State during the period.

Mainly dry weather is likely over the State.

Advisories

- As there was no rainfall in all the districts during last few weeks 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**. Use top 1/3rd portion of the cane as a seed for best germination. Dip 2-3 eyes pieces in a solution of Agelal or Bavistine fungicide (2gm / lit of water) for 30 minutes before planting.
- Apply second split dose of N @ 25 – 30 kg / ha at tillering stage (40 – 45 days after sowing) of **wheat**.

Maharashtra

Mainly dry weather prevailed all over the State.

Mainly dry weather is likely over the State. Rise in night temperature by 2-30C over the State.

Advisories

- As there was no 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**.
- Second dose of 136 kg Nitrogen / ha may be applied after 6 to 8 weeks from planting of **sugarcane** (Pre-seasonal). Dose may be given with 1 kg Neem cake powder in 6 kg Urea.
- Prepare land for sowing of **summer groundnut**. For sowing select a variety from SB-11, M-13, GT-26, TAG-

24, TPG-41 & Koyna.

- Prepare land for sowing of **summer sunflower**. For sowing select an improved variety from EC-68414, Morden & SS-56 & hybrid variety from KBSH-11 & APSH-11.
- Prepare land for sowing of **summer bajra**. For sowing select a variety from Sradha & Saburi.
- Mild incidence of **White Woolly Aphids** in Latur & **Pyrilla** & **White fly** in Nashik and **White Fly** in Pune and Latur division in sugarcane, **Aphids, Jassids** and also **Lalya** disease in Nagpur division in cotton and leaf roller in Nagpur in tur, **Aphids** and **Leaf cater pillar** in Nashik division, **Sugary** disease in Pune and **stem borer** in Kolhapur division in *rabi* jowar, **Aphids** in Kolhapur & **Aphids & Jassids** in Amravati division in safflower, **Rust** in Kolhapur division in wheat, **Pod borer** in Pune, Aurangabad, Amravati and Nashik division in gram, **Hairy cater pillar** in Aurangabad division in sunflower and **late blight** in Pune, Ahmednagar and Satara districts in potato 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. Spraying may be repeated after 10 – 15 days.
- Monitor **Stem borer** in *rabi* jowar and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 700 ml or Carbaril 2000 gm / ha in 500 liter water wherever crops are in grain formation stage.
- 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.
- For the control of **Late blight** of **potato**, spray **Copper oxychloride** 2500 gm / ha or **Captan** 2500 gm / ha in 750 to 1000 liter water or **Metalaxil + Mancozeb** 2500 gm / ha in 1000 liter water. Second spraying may be done after 15 days.

Madhya Pradesh

Dry Weather prevailed over the State.

Mainly dry weather is likely over the State except north Madhya Pradesh where isolated rain / thundershower is likely from 10th onwards.

Advisories

- There was no significant rainfall in all the districts during the last few weeks and dry weather is likely to prevail for the next three days over the State with isolated rain / thundershowers in north MP. 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 **wheat** for **kandwa** disease and remove and destroy the affected plants completely to prevent further spread of the disease.
- Monitor **mustard**, **masoor** and **linseed** for **mahu** insect and apply **Methyl Parathion 2%** dust @ 20 kg / ha to control the pest.

Orissa

Rainfall occurred at isolated places Over Orissa during the above period.

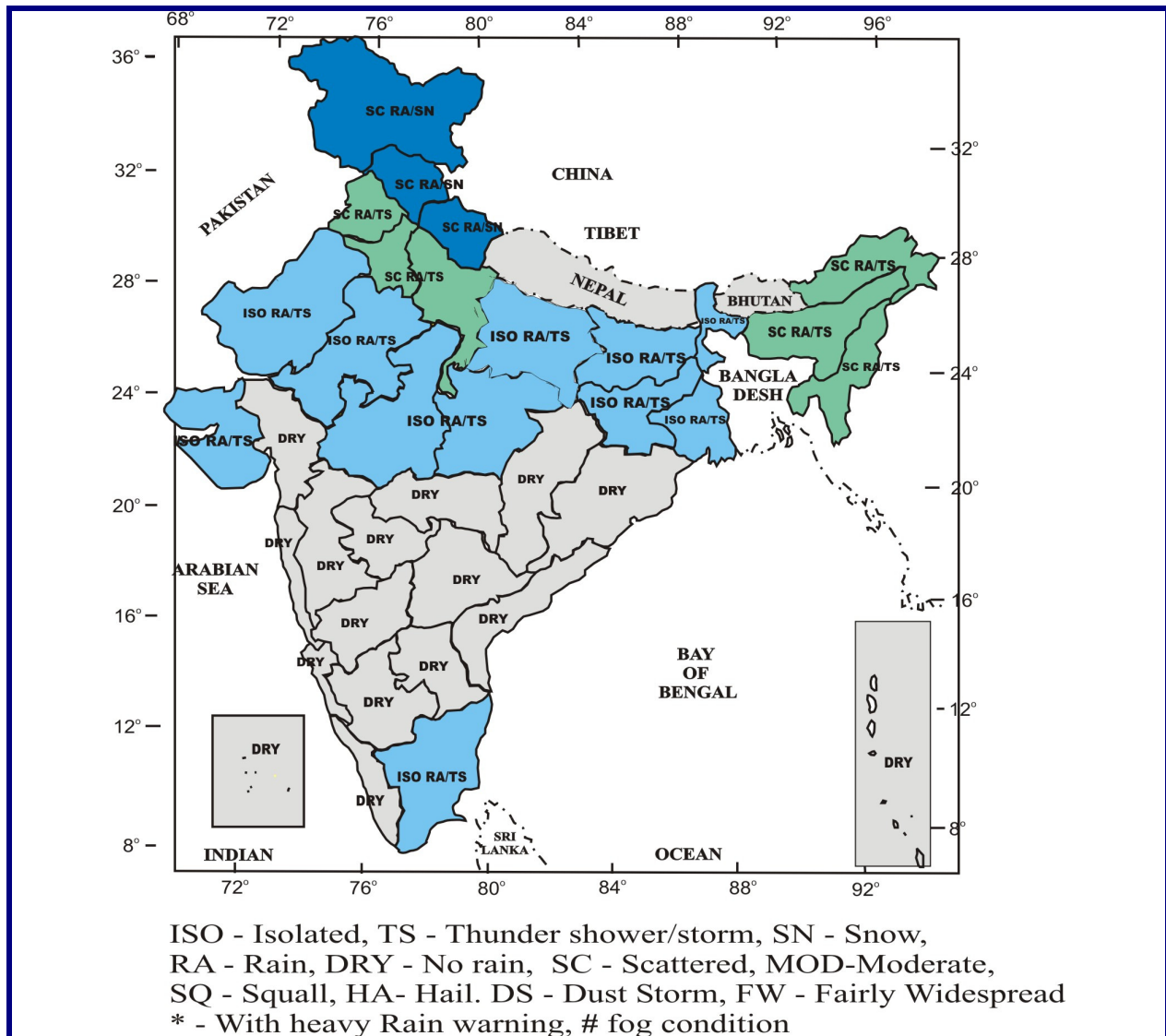
Isolated rain / thundershower is likely over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rain during last few weeks in the State and isolated rain / thundershower is likely over the State during next 24 hours and mainly dry weather thereafter, apply irrigation to **mustard**, **vegetables**, **groundnut** and **pulses** to bring the soil moisture to field capacity.
- Continue transplanting of *dalua rice*. Transplant 2 -3 seedlings per hill. Maintain 2 – 3 cm water in the field after 2 – 3 days after transplanting.
- Prepare land with basal application of 8 kg N, 16 kg P₂O₅ and 16 kg K₂O and start sowing of **summer groundnut**. Select varieties from Smruti and AK 12-24.
- Start sowing of **summer moong** with basal application of 8 kg N, 16 kg P₂O₅ and 8 kg K₂O / acre.
- Monitor the **mustard** crop for **saw fly** and spray Endosulfan @ 2 ml. / litre of water to control the pest if it crosses economic threshold level (ETL).
- If powdery mildew in **pulses** crosses ETL, spray sulfax @ 5 gm per litre in 200 litres per acre.
- If thrips and aphids population in *rabi groundnut* crosses ETL, spray Dimethoate @ 400 ml or Imidachloprid @ 50 ml in 200 litres of water per acre.
- If tikka disease in *rabi groundnut* crosses ETL, spray 500 gm copper oxychloride in 200 litres of water per acre.
- Monitor **brinjal** and **tomato** for wilt and if it crosses ETL, spray 1.5 g Streptocycline and 20 g copperoxychloride in 10 litre of water.
- Monitor thrips in **chillies** and if it crosses ETL, spray 300 ml Ethion or 400 ml Dimethoate per acre.

Forecast Map

Valid upto 11th February 07



Salient weather features for the week ending 07/02/07

METEOROLOGICAL ANALYSIS

- A western disturbance as an upper air system lay over Jammu & Kashmir and neighbourhood on 3rd February and moved away eastwards on 4th February. Another western disturbance as an upper air system affected Western Himalayan region during 5-6th February and was moving away eastwards on 7th February.
- An induced upper air cyclonic circulation in the lower levels lay over West Rajasthan and neighbourhood on 5th February, over northeast Rajasthan and adjoining Haryana on 6th February and over Haryana and neighbourhood on 7th February.
- A cyclonic circulation in the lower levels lay over East Uttar Pradesh and adjoining Bihar on 6th & 7th February. A trough from this system extended upto north Telangana on 7th February.
- Another cyclonic circulation in the lower levels lay over Gangetic West Bengal and neighbourhood on 5th February and north Orissa and neighbourhood on 6th February. It became less marked on 7th February.

RAINFALL

Under the influence of the above systems:

- Scattered to isolated rain/snowfall occurred over Western Himalayan region during 4-7th February. Isolated rain/thundershowers occurred over Rajasthan, Punjab and Haryana on 6-7th February and over Uttar Pradesh on 7th February.
- Scattered to isolated rain/thundershower occurred over northeastern States and Sub-Himalayan West Bengal & Sikkim throughout the week.
- Isolated rain/thundershower also occurred over Orissa on 3rd and 5-7th February and over Gangetic West Bengal and Jharkhand on 5th February.
- Mainly dry weather prevailed over the remaining parts of the country during the week.

FOG

Isolated morning fog conditions prevailed over Indo-Gangetic plains throughout the week except on 3rd February when the morning fog conditions occurred at many places over the region. Fog also occurred at many places over Orissa and Sub-Himalayan West Bengal & Sikkim during morning hours on 3rd February.

MINIMUM TEMPERATURES

- The night temperatures were above normal by 2-5 °C over the plains of northwest India during the week except on 2nd when they were normal.
- They were above normal by 2-5°C throughout the week over northeastern States and east India outside East Uttar Pradesh and Bihar. They were normal during 2-4th and above normal by 2-5 °C on remaining days of the week over East Uttar Pradesh and Bihar.
- They were above normal by 2-4 °C during the week except on 4th when they were above normal by 4-5°C over central India.
- The night temperatures were normal during the week over south Peninsula except over interior Karnataka and Tamil Nadu. They were below normal by 2-3 °C over interior Karnataka on many days of the week and over Tamil Nadu on last day of the week.
- They were above normal by 2-4°C over west India outside Gujarat and Rajasthan. They were above normal by 5-7 °C on a few days of the week and by 2-4 °C on remaining days of the week over Rajasthan and Gujarat.

RAINFALL DURING THE WEEK ENDING ON 7TH FEBRUARY, 2007.

Rainfall was excess/normal in 4, deficient/scanty in 14 and no rain in 18 out of 36 meteorological sub-divisions (Actual: 2.8 mm, Normal: 5.1 mm and Departure: -45%).

CUMULATIVE SEASONAL RAINFALL (1ST JANUARY TO 7TH FEBRUARY, 2007)

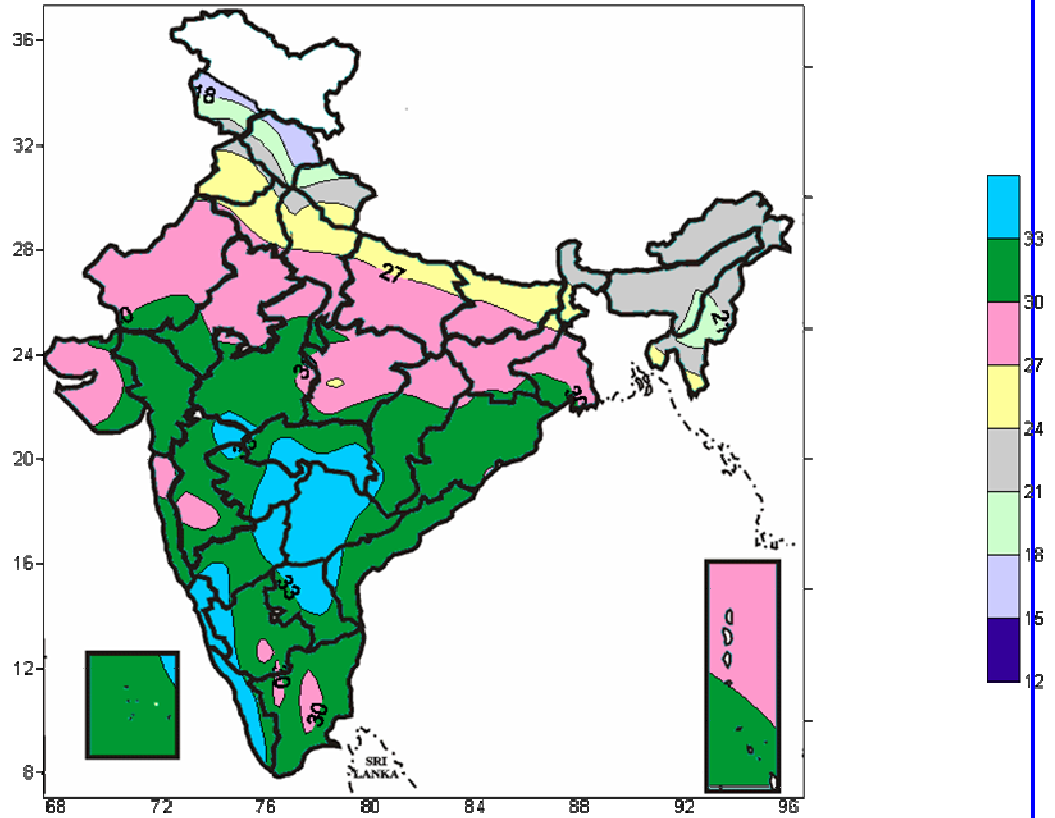
Rainfall was excess/normal in 2, deficient/scanty in 27 and no rain in 7 out of 36 meteorological sub-divisions. (Actual: 4.4 mm, Normal: 26.0 mm and Departure: -83%).

OUTLOOK FOR THE WEEK ENDING ON 14TH FEBRUARY, 2007.

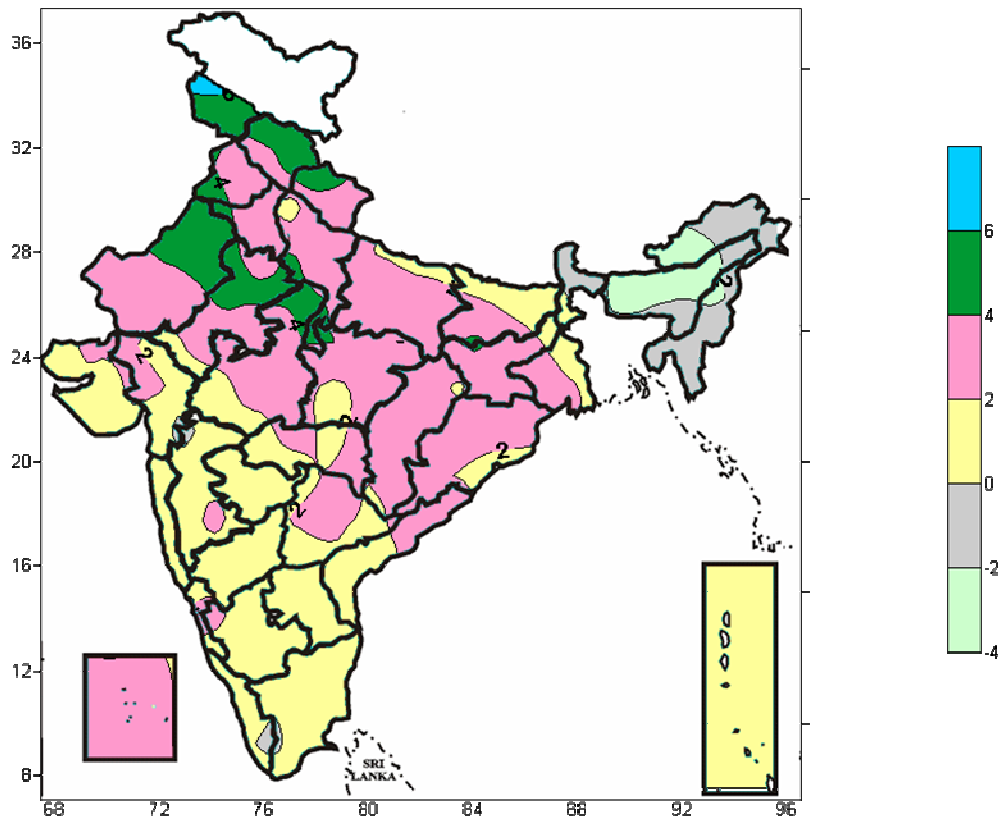
- A fresh western disturbance is likely to cause scattered precipitation over northwest and east India for 2-3 days commencing from 9th.
- Rise in night temperature over plains of northwest India during 9-12th and fall thereafter.
- Dense fog conditions are likely over plains of northwest India towards end of the week.

Contour maps for the week ending 7th February, 2007

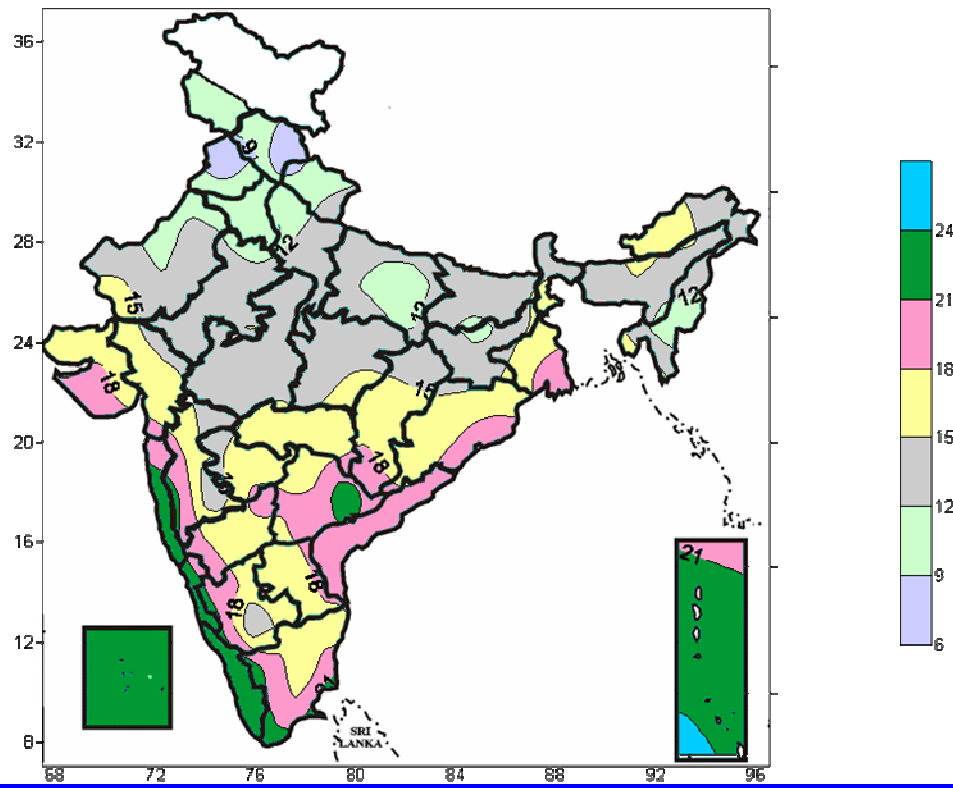
Actual mean maximum Temperature (°C) in India for the week ending 07.02.07



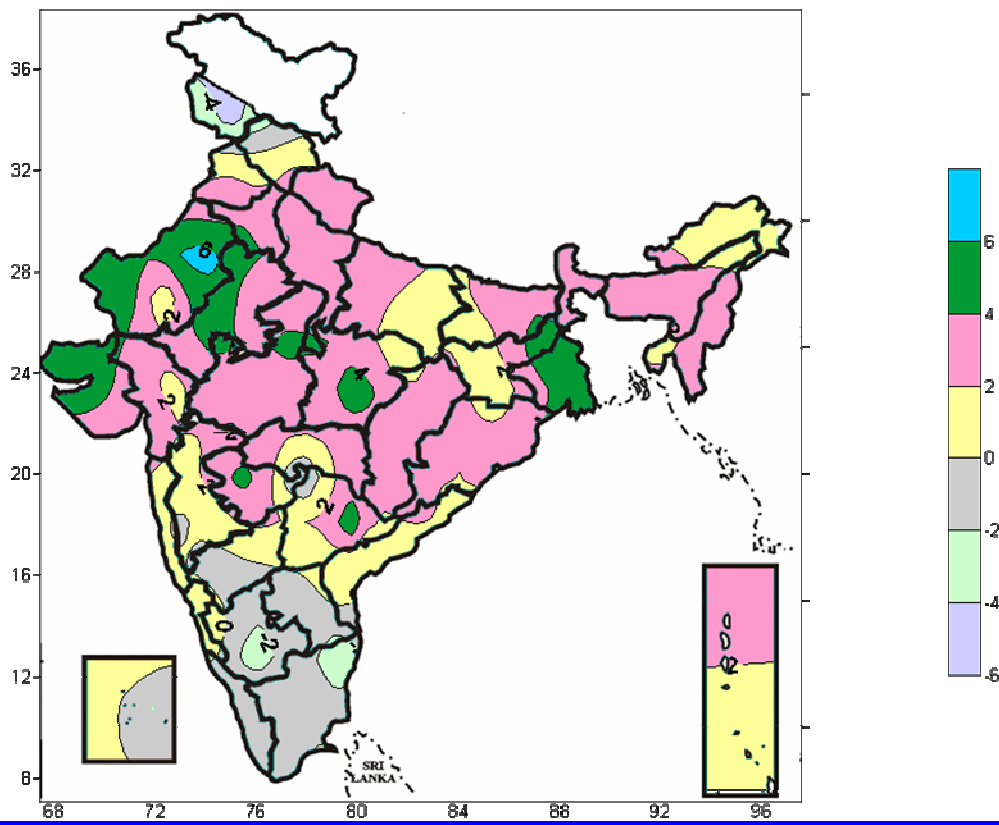
Maximum Temperature (°C) Anomaly In India for the week ending 07.02.07



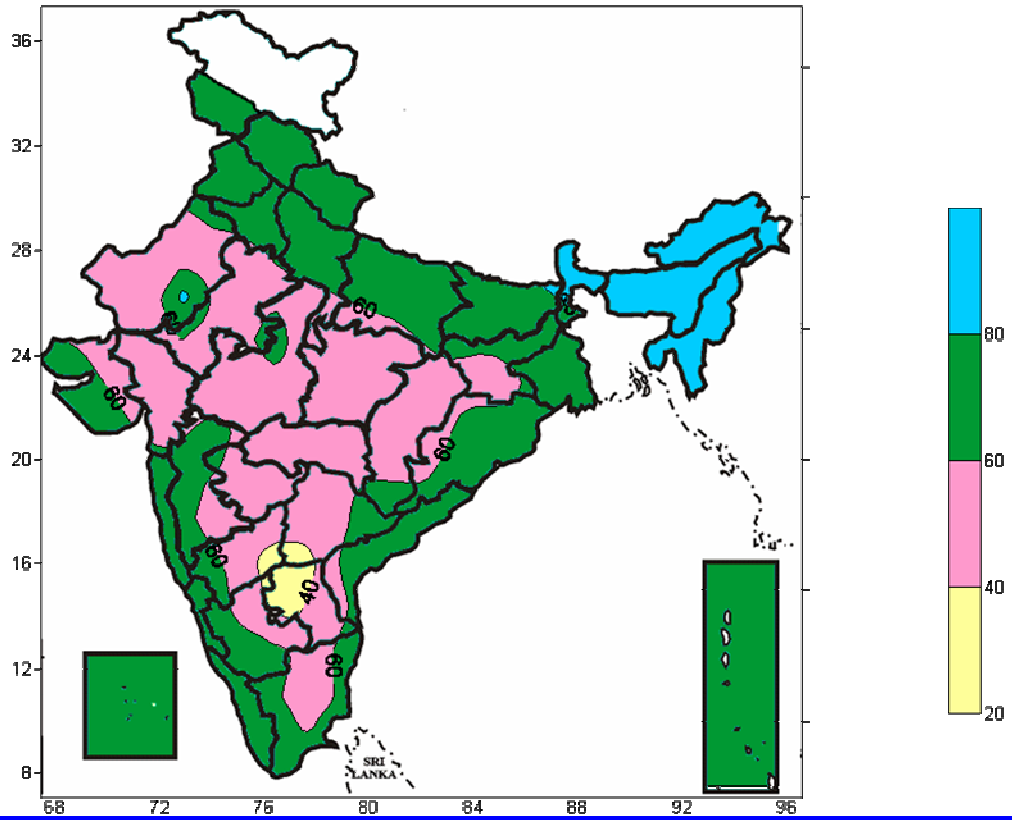
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 07.02.07



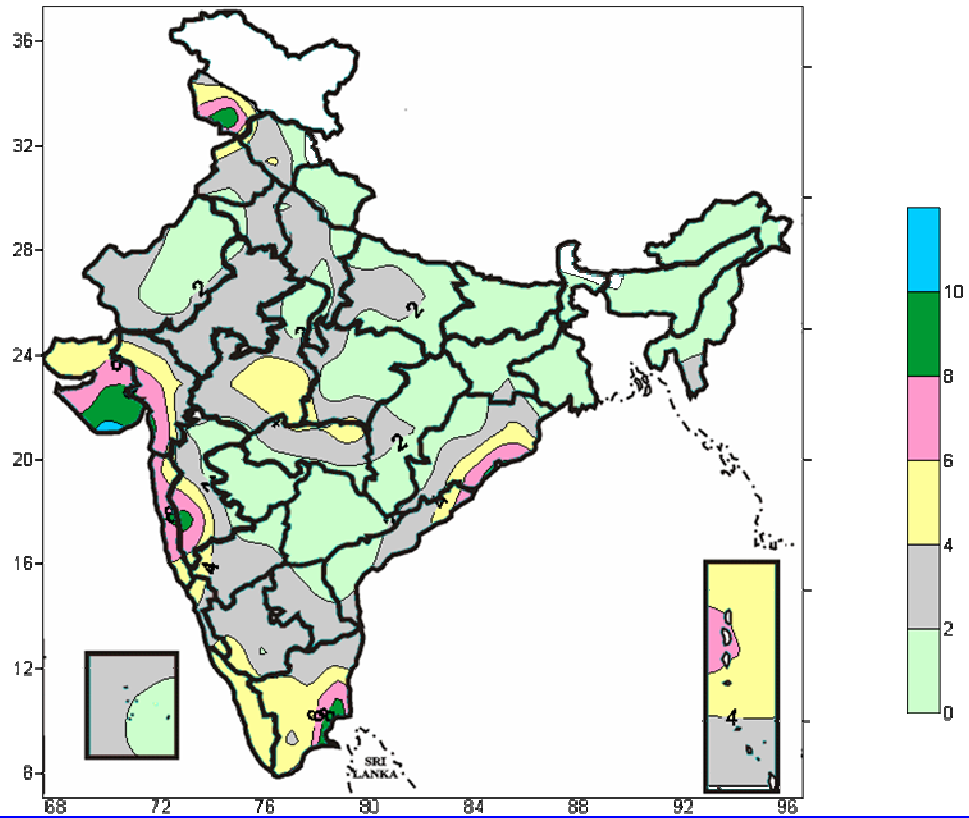
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 07.02.07



Relative humidity (%) over India for the week ending 07.02.07



Wind speed (knots) over India for the week ending 07.02.07



Desert Locust Forecasting



Rainfall (mm)							
Station Name	01.02.07	02.02.07	03.02.07	04.02.07	05.02.07	06.02.07	07.02.07
Amritsar	NIL						
Barmer							
Sriganganagar							
Jaisalmer							
Kota							
Deesa							
Churu							

Temperature (degree celcius)							
Station Name	01.02.07	02.02.07	03.02.07	04.02.07	05.02.07	06.02.07	07.02.07
Amritsar	14.5	15.0	15.0	15.0	15.5	15.5	15.0
Barmer	21.5	19.5	21.0	23.0	22.5	25.5	23.5
Sriganganagar	18.5	17.5	19.0	18.0	17.5	20.0	19.0
Jaisalmer	19.5	21.5	21.5	22.5	23.0	24.0	21.5
Kota	22.0	21.0	21.5	21.5	23.0	22.5	25.5
Deesa	22.0	22.0	22.5	-	22.5	24.5	23.0
Churu	-	-	-	-	-	-	-

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

CROP – STATE – STAGE

Delhi

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

Haryana

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

Himachal Pradesh

Wheat	Gram	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley
Tillering	Flowering/Pod formation	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Vegetative
Onion	Rape seeds and Mustard	Fruit plants		
Nursery preparation	Vegetative/ Flowering	Prune		

Jammu & Kashmir

Vegetable crops	Toria / Brown Sarson	Mustard	Pea/Lentil/Gram	Wheat
Flowering/Fruiting/Harvesting	Seed development	Siliqua development	Pod development	Flowering/Grain formation

Punjab				
Sugarcane	Rabi oilseeds	Gram/Lentil	Horticultural crop	Wheat
Vegetative	Vegetative/ Flowering	Flowering /Pod formation	Vegetative	Tillering
Toria	Sunflower			
Harvesting	Sowing			
Rajasthan				
Mustard	Wheat	Cumin	Gram	Barley
Siliqua development	Grain formation	Flowering	Pod development	Grain formation
Uttar Pradesh				
Wheat / Barley	Rabi pulses	Sugarcane	Mango	Winter Vegetables
Vegetative	Flowering /seed formation	Harvesting	Flowering / matured tree	Vegetative/Flowering
Rabi Oilseeds(Rai and Mustard)	Toria			
Flowering /seed formation	Harvesting			
Uttarakhand				
Pea	Mango	Wheat	Sugarcane	Potato
Harvesting	Active growth	Tillering/Flowering	Maturity / harvesting	Tuber growth
Litchi				
Flowering				
Assam				
Vegetables	Sugarcane	Wheat	Boro Rice	Potato
Vegetative/Flowering/Fruiting/ Harvesting	Harvesting	Tillering/Flowering	Early vegetative / tillering	Tuber formation
Pea and Lentil	Arhar	Rape seed and Mustard		
Pod maturity/ Harvesting	Maturity/Harvesting	Pod maturity/ Harvesting		
Arunachal Pradesh				
Mustard	Ginger	Potato	Wheat	Winter vegetables
Flowering	Vegetative	Tuber formation /Harvesting	Tillering/Flowering	Fruiting / harvesting
Bihar				
Summer Vegetables	Rabi vegetables	Wheat		Rabi Maize
Sowing	Flowering / fruiting / harvesting	Tillering / flowering		Tasseling / Silking / cob initiation
	Boro Rice	Potato	Rabi Oil seeds (Toria, Sarson, Linseed)	Rabi Pulses (Lentil, Gram, Pea)
	Transplanting	Tuber formation / tuber growth	Pod formation / early maturity	Pod formation / early maturity
Jharkhand				
	Rabi Maize	Wheat	Potato	
	Tasseling / silking	Tillering	Earthing up / tuber formation	
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)	Summer vegetables	Rabi pulses and oilseeds (Gram, masoor, lentil, linseed, oat, mustard and kusum)	Arhar	
Vegetative / flowering / fruiting	Sowing	Flowering	Pod formation	
Sikkim				
Orange	Mustard	Rabi vegetables	Wheat	Large Cardomom
---	Siliqua development/Maturity	Fruiting /Harvesting	Tillering/Joining	Vegetative
West Bengal				
Boro rice	Sugarcane	Wheat	Rapeseed and Mustard	Gram/ Lentil
Land preparation / Transplantation	Cane maturity / harvesting	Flowering /Milking	Pod formation / early maturity	Pod formation / early maturity
Early transplanted Boro rice	Potato			
Early vegetative/Tillering	Tuber formation / Tuber growth/Early maturity			

Chattisgarh				
Gram / Mustard	Vegetables (Tomato, chilli, brinjal)	Sugarcane	Wheat	Linseed, Safflower,
Flowering/pod formation	Vegetative /Flowering/Fruiting	Maturity/Harvesting	Tillering/Flowering/ Milk	Vegetative /Branching
Sunflower	Early Sown Sunflower	Potato	New crops Sugarcane	Early sown Sugarcane
Field preparation / sowing	Germination / early vegetative / vegetative	Tuber formation/Tuber growth	Planting	Sprouting/Early vegetative
Linseed				
Flowering/Seed formation				

Gujarat				
Mustard	Wheat	Pre-monsoon irrigated Cotton	Castor	Sugarcane
Pod formation/Maturity	Ear initiation/Flowering	Boll formation / picking	Flowering / spike formation	Maturity / Harvesting
Kharif Cotton	Summer Groundnut	Summer Rice		
boll maturity/picking	Land preparation/sowing	Transplantation		

Maharashtra				
Sugarcane (Seasonal) (Madhya Maharashtra, Marthwada and Vidarbha)	Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Tur (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Safflower (Madhya Maharashtra, Marathwada & Vidarbha)
cane maturity / harvesting	Boll maturity / picking	Pod maturity / harvesting	Grain formation/(grain maturity – in some parts of Pune Dist.)	Head formation /(Head maturity- at some places)
Wheat (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Gram (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Rabi Maize (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Rabi Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)
Flowering/Milk/Dough	Pod formation /Pod maturity	Cob initiation/cob formation/cob maturity	Head formation/Seed maturity-	Sprouting / early vegetative
Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Summer Rice (Konkan)	Summer Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)
Tuber formation/tuber growth	Bulb formation/bulb growth	Land preparation/sowing	Germination	Land preparation/Sowing
Summer Bajra (Madhya Maharashtra, Marathwada & Vidarbha)				
Land preparation/Sowing				

Madhya Pradesh				
Irrigated Wheat	Mustard	Gram	Masoor	Linseed
Grain formation	Maturity	Maturity	Maturity	Maturity
Wheat				
Grain development				

Orissa				
Vegetables	Dalua Rice	Mustard	Pulses	Rabi Groundnut
Flowering / Fruiting / Harvesting	Transplanting	Pod formation/pod maturity	Vegetative / flowering	Pod formation/Pod maturity
Sugarcane	New Sugarcane crop			
Maturity / harvesting	Planting			

Andhra Pradesh				
Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice
Pegging	Tasselling / cob formation	Maturity/Harvesting	Pod formation /Maturity	Tillering

Karnataka				
Sugarcane (Ratoon crop)	Rabi Wheat	Rabi jowar, Sunflower and maize	Summer groundnut and Sunflower	Summer rice
Vegetative	Maturity/Harvesting	Maturity/Harvesting	Vegetative	Vegetative
Kerala				
Rubber	Mundakan rice			
Tapping	Harvesting			
Tamil Nadu				
Rice (Navarai)	Millets	Cotton	Rice fallow Pulses (Blach gram and Green gram)	Oilseeds (Groundnut)
Tillering	Maturity/Harvesting	Vegetative	Vegetative	Vegetative
Sunflower	Pulses (Blach gram and Green gram)	Maize	Sugarcane (Early season)	Thaladi Rice
Vegetative	Maturity/Harvesting	Vegetative	Planting	Raising nursery
Early planted Sugarcane				
Early vegetative				
