



Summary of Agromet Advisory Services for different States of the country
Issued by
Agricultural Meteorology Division, India Meteorological
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Thursday, 9th November, 2006

(For the period 9th to 13th November, 2006)

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

Weather was mainly dry in the State during the period.

Isolated rain / thundershowers are likely over the State.

Advisories

- There was no rain in the State during last week and isolated rain / thundershowers are likely to prevail over the State for the next three days. Under the circumstances, apply required irrigation to **sugarcane, gram, lentil** and **wheat** to bring the soil moisture to its field capacity.
- This is proper time for sowing of **wheat, lentil, gram** and **rabi oil seeds**. Use the certified seeds of recommended varieties i.e. WH-542,147,157, 711, C-306 (*Barani* Conditions) and PBW-343, WH-711, WH-423, Sonak, PBW-373 (Irrigated conditions) for wheat. Select *desi* and *kabuli* varieties for gram.
- Apply recommended dose of fertilizer at sowing time. Destroy the canes affected by **stem borer & gurdaspur borer** and to control **pyrilla** or **white fly** spray 600-800ml Malathion in 800 ml of water per acre.

Haryana

Weather was mainly dry in the State during the period.

Isolated rain / thundershowers are likely over north Haryana & Chandigarh on 10th & 11th November. Mainly dry weather is likely over the rest region.

Advisories

- There was no rain in the State during last week. Isolated rain / thundershowers are likely over north Haryana and Chandigarh on 10th & 11th November and mainly dry weather is likely over the rest region for the next three days. Under the circumstances, apply required irrigation to **sugarcane, gram, lentil** and **wheat** to bring the soil moisture to its field capacity.
- This is proper time for sowing **wheat, gram, lentil** and **rabi oil seeds**. Use the certified seeds of recommended varieties i.e. WH-542,147,157, 711, C-306 (*Barani* Conditions) and PBW-343, WH-711, WH-423, Sonak, PBW-373 (Irrigated conditions) for wheat. Select *desi* and *kabuli* varieties for gram.

Rajasthan

Weather remained dry in all divisions of the State.

Mainly dry weather is likely over the State. However, North Rajasthan is likely to experience isolated rain / thundershowers during 10th & 11th November.

Advisories

- Continue harvesting of matured crops of **cotton**.
- This is proper time for sowing **barley, mustard, gram, cumin** and **wheat**. Continue land preparation and sowing. Undertake seed treatment before sowing.
- Apply pre sowing irrigation before sowing of **wheat**.

Uttar Pradesh

Weather was mainly dry in all divisions of the State from 6th to 8th November.

Mainly dry weather is likely over West U.P. and isolated rain / thundershowers over East U.P.

Advisories

- There was no rainfall in the State except **Bahraich, Fatehpur, Kanpur City, Lucknow, Pratapgarh, Varanasi** and **Hamirpur** districts during last week and isolated rain / thundershowers are likely over East Uttar Pradesh and weather is likely to dry in west U.P for the next three days. Under the circumstances, apply irrigation to bring the soil moisture to its field capacity in **rabi oilseed** and **winter vegetable** crops. Postpone irrigation in the above mentioned districts.
- Continue weeding and hoeing along with top dressing of nitrogen in winter **vegetables** and **rabi oilseeds**.
- Sowing of **rabi wheat, barley** and **fodder crops** may be continued.
- Complete sowing of **rabi pulses** and oilseed **mustard** and **rai**.
- Transplanting of winter vegetables **cauliflower, brinjal, chilli** and **tomato** may be continued.
- Harvesting of matured **rice, sugarcane, pulses, groundnut** and **kharif vegetables** may be continued.

Himachal Pradesh

The weather was dry during the week in the State.

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

Advisories

- As there was no rain during last two weeks, apply irrigation to **vegetable** crops.
- Continue land preparation on a non-rainy day and sowing of **Arcle peas** in the high hills, transplanting of **cauliflower** and **cabbage** and sowing of **wheat, gram, barley, radish, turnip** and **carrot**.
- Select varieties from VL 616, HS 277, PBW-343 for early sown, HPW-89, HS-240, HPW-147, HPW-184 for timely sown and HPW-42, HS-295 for late sown **wheat**, Himachal Chana – 1; C-235; HPG-17 for **gram** and Vimal (HBL-113) Dolma; Sonu (HBL-87); Gopi (HBL-316); Harit HBL-276) for **barley**.

Uttaranchal

Light rain was recorded at isolated places on 1st November, while weather remained mainly dry during rest of the week. Sky remained mainly clear to partly cloudy during the period.

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

Advisories

- Light rain was recorded at isolated places, while weather remained mainly dry during last week. Rain / snow are likely to occur at a few places over the State. Under the circumstances, apply irrigation to **mango, litchi, sugarcane** crops depending on soil profile stored moisture.
- Carry out inter cultural operation, application of fertilizer and plant protection measures to **mango, toria, pea, potato** and **sugarcane** crops on a non rainy day.
- Continue sowing of **wheat**.
- Continue harvesting of matured **rice** and **finger millet** crop.

Jammu & Kashmir

Weather remained mainly dry over the state.

Rain/snow is likely at a few places over Jammu & Kashmir.

Advisories

- Continue sowing of **carrot, beet root** and **turnip** for seed crop in Jammu division and sowing of crops like **Methi, Palak, Coriander, raddish** etc. in Kashmir division. Start nursery sowing for **onion**.

- Continue sowing of **brown sarson** (Kashmir division), **gram** (Jammu division), **mustard**, **pea**, **lentil**, **toria** and **wheat** to utilize residual moisture. Before sowing, undertake ploughing followed by planking to conserve moisture.
- Prevailing weather conditions may be favourable for the infestation of **flea beetle** in **toria** crop. Monitor the crop and if damage exceeds ETL, spray the crop with Carbaryl 50 WP @ 2gm / litre or Malathion @ 0.05% on a non-rainy day.

Delhi

Weather remained dry.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to **early sown vegetable crops**, **mustard** and **toria** to bring the soil moisture to its field capacity.
- Prepare land and continue transplanting of 4 – 6 weeks old varieties of **cauliflower** and **cabbage** plants.
- Prepare land and perform sowing of Japanese White and Reshmi varieties of **raddish**, Pusa kanchan, Golden Ball and Pusa Chandrama varieties of **turnip** and Bonabilla variety of **peas** and nursery sowing of N53 and Pusa Red varieties of **onion**. Treat the seeds with Captan or Thairam or Dithane M- 45 @ 2 g / kg seeds.
- Prepare land and continue sowing of **wheat**, **gram** and **barley**.
- Select varieties from HD-2329, HD-2009, WL-74, HD-3428, CPAN and PBW-215 for **wheat**, P-209, Pusa-408, Gaurav C-235 and K-851(Kabuli chana) for **gram** and Jyoti, BG 25, D – 70 and Ratna for **barley** for sowing.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Northeast monsoon was active over the State on 7th November & weak on 8th November. Rain / thundershowers occurred at many places on 7th November, at a few places on 6th November and at isolated places on 8th November.

Rain / thunder showers are likely at many places over the State.

Heavy Rain Warning: Isolated heavy rainfall is likely during next 48 hours.

Advisories

- As rain / thunder showers are likely at many places over the State, postpone irrigation to the standing crops. Arrange for drainage facilities in case of excess rainfall.
- Attack of **leaf folder**, **brown plant hopper**, **stem borer**, **sheath blight** and **bacterial leaf blight** is reported in *mundakkan* rice. Spray 0.05% Monocrotophos or Quinalphos after current spells of rain to control the pests.
- Attack of **pollu beetle** and **quick wilt** is reported in **pepper**. Spray Ekalux @ 2ml in one litre of water to control **beetle**. Spray and drench with 1% Bordeaux mixture to control **wilt**. Undertake these plant protection measures after current spells of rain.
- **Pink disease** is reported in **rubber**. Apply 1 % Bordeaux paste after current spells of rain to control the disease.
- Attack of **bunchy top**, **leaf spot** and **pseudo stem weevil** is reported in **banana**. Eradicate **bunchy top** affected plants to reduce the spread of the disease. Apply Phorate @ 25 g / pit before planting new crop to prevent further spread of the disease. Fill the leaf axils with Chloropyriphos @ 2.5 ml / litre of water to control **pseudo stem weevil** and spray Bordeaux mixture @ 1% to control **leaf spot** disease. Undertake these plant protection measures after current spells of rain.

- Attack of **Leaf eating caterpillar, mite, red palm weevil** insects **leaf rot** and **bud rot** disease is reported in coconut. Use Pheromone trap for controlling **red palm weevil** and remove the rotten parts from spear and two adjacent leaves of the affected palm and pour Contaf 5 EC @ 2 ml or Mancozeb @ 3 gm in 300 ml water for controlling **leaf rot** after current spells of rain. Spray 1% Bordeaux mixture on spindle leaves and crown after current spells of rain. Spray Dichlorovos @ 1ml per lit of water or use Mercaptothion followed by release of pupal and larval parasites available from bio-control lab, 21 days after spraying.
- Weeding, intercultural operations, application of fertilizers and new planting may be continued after current spells of rain.

Tamilnadu

Northeast monsoon has been vigorous over South Tamilnadu and active over North Tamilnadu on 7th November. Rainfall occurred at most places over South Tamilnadu, at many places over North Tamilnadu on 7th November and at a few places over the State on 6th November and 8th November.

Rain / thunder showers are likely at many places over the State.

Warning: Isolated heavy rainfall is likely during next 48 hours.

Advisories

- As rain / thunder showers are likely at many places with isolated heavy rainfall over the State, postpone irrigation to **early/mid sugarcane**. Arrange for drainage facilities in case of excess rainfall.
- Continue nursery sowing/ transplanting of **samba rice** after current spells of rain.
- Continue intercultural operations, application of fertilizers and pesticides after current spells of rain.
- Monitor **sugarcane** for **internode borer**. Release *Trichogramma chilonis* parasite @ 5 cc/ha after current spells of rain to control the pest. Repeat after 15 days.
- Continue land preparation and sowing of **millets, cotton, pulses** and **groundnut** and **sunflower** after current spells of rain.

Karnataka

Rainfall occurred at many places on 6th & 7th November and at isolated places on 8th November over Coastal Karnataka. Over North Interior Karnataka, rainfall occurred at a few places on 8th November and at isolated places on the remaining days. Over South Interior Karnataka, rainfall occurred at many places on 7th November; at a few places on 6th and at isolated places on 8th November.

Rain / thundershowers are likely at a few places over coastal Karnataka and south Interior Karnataka and at isolated places over north Interior Karnataka.

Advisories

- Conserve moisture in the field wherever the crops are at maturity stage.
- Harvest the matured *kharif* crops on bright sunny days.
- Continue land preparation and sowing of **rabi jowar, wheat** and **maize**.

Andhra Pradesh

North west monsoon has been vigorous over South Coastal Andhra Pradesh on 3rd November and over Rayalaseema on 2nd & 3rd November and active over South Coastal Andhra Pradesh on 2nd November and over Rayalaseema on 4th November. Rain occurred at many places over Telangana on 3rd November and at a few places over Coastal Andhra Pradesh on 4th and 8th November, over North Coastal Andhra Pradesh on 2nd November and 3rd November. Isolated rain occurred elsewhere over the State during the week.

Rain or thundershowers are likely to occur at many places over coastal Andhra Pradesh and at a few places over Rayalaseema and Telangana.

Warning: Isolated heavy rainfall is likely over coastal Andhra Pradesh during next 48 hours.

Advisories

- There was excess rainfall in the State during last week and rain / thundershowers likely to occur at many places over coastal Andhra Pradesh and at a few places over Rayalaseema and Telangana. Under the circumstances, postpone irrigation to **groundnut, rice, chilly** and **tur**. Also provide adequate drainage facilities in case of heavy rainfall.
- Continue harvesting of matured **maize** and **chillies** on bright sunny days.
- Attack of **brown plant hopper** is reported in **rice**. Spray Ethiphenfos @ 1.5 ml/liter of water or Imidoclopid 0.25ml or Monocrotophos 2.2ml or Acephate 1.5gm/litre of water on a non rainy day in Rayalaseema and Telangana to control the pest. Postpone the same in coastal Andhra Pradesh. Avoid spraying wherever the crops are at maturity stage.

Eastern Region (Assam, Bihar, Sikkim, West Bengal)

Assam

Light to moderate rain occurred at isolated places on 8th November, light rain occurred at isolated places on 9th November, and dry weather prevailed on 6th November over the State.

Rain / thundershowers are likely to occur at a few places over the State.

Advisories

- As there was no rainfall during last week and rain / thundershowers are likely at a few places over the State for the next three days, apply irrigation to **arhar, black gram, green gram, rapeseed** and **mustard** to bring the soil moisture to its field capacity.
- Maintain 5 – 7 cm water level in **Sali rice** field wherever crops are at grain formation stage. Drain out standing water 10-15 days before harvesting.
- Mild incidence of **Pod and apion borer** in **arhar**, **aphids, jassids, flea beetle** and **leaf spot** in **black gram** and **green gram** is reported.
- Monitor **Pod and apion borer** in **arhar** and if crosses economic threshold level, spray Malathion 50 EC @ 1.5 ml per litre of water or Fenitrothion 50 E.C. @ 2ml per litre of water.
- Monitor **Aphids, Jassids, Flea beetles** in **black gram** and **green gram** and if crosses economic threshold level, spray Malathion 50 EC @ 2ml per litre of water. For **leaf spot**, as soon as diseases appear, spray Blitox or Fitolan @ 1.5 gram per litre of water at an interval of 7 to 10 days. Alternatively Bavistin @ 1 gram per litre of water should be applied at an interval of 12 to 15 days.
- Apply plant protection measures to **sali rice** when one adult of rice hispa per hill or one leaf is found damaged by hispa. Apply Monocrotophos 40 EC @ 1.5 ml per litre of water or Chloropyriphos 20 EC @ 2 ml per litre of water to control the insect. If attack of Stem borer is noticed apply Monocrotophos 40 EC @ 1.5 ml per litre of water.
- Apply plant protection measures on a non-rainy day.
- Continue land preparation on a non-rainy day and sowing of **winter vegetables, rapeseed, mustard, potato, wheat, pea** and **lentil**.

West Bengal

Very light rain occurred at isolated places on 6th November over the districts of Sub Himalyan West Bengal. Weather remained mainly dry elsewhere during the rest period.

Rain / thundershowers are likely at many places over Coastal areas & at a few places over rest area of the state.

Advisories

- As rain / thundershowers are likely at many places over coastal areas of the State, postpone irrigation in the districts of coastal areas.
- As there was no significant rainfall in the State during last week and rain / thundershowers are likely at a

few places over remaining areas of the State for the next three days, apply irrigation to sugarcane to bring the soil moisture to its field capacity.

- Conserve soil moisture during maturity stage of the groundnut crop.
- Maintain 5 – 7 cm water in aman rice field wherever crops are at grain formation stage. Drain out water from the field 10 – 15 days before harvesting.
- Continue harvesting of matured crops of aman rice and groundnut on bright sunny days.
- Land should be prepared on a non-rainy day and sowing of boro rice, gram, lentil, wheat, rapeseed and mustard may be done.
- 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 and Mahamaya 1&2, Anuradha(39-2) etc. for gram.

Bihar

Very light rain had occurred at isolated places which were not measurable.

Rain / thundershowers are likely at a few places over the State.

Advisories

- There was no significant rainfall during last week and rain / thundershowers are likely to occur at a few places over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in vegetables.
- Continue transplanting of early cauliflower, chillies, brinjal from ready seedlings and sow winter vegetables.
- Harvest the matured rice crop on bright sunny days.
- Continue field preparation and sowing of rabi maize, pulses, oilseeds, wheat and potato with available residual moisture.
- Weeding / thinning operation may be done on a non rainy day in early sown rabi maize, pulses / oilseed crops.

Jharkhand

Weather remained mainly dry.

Rain / thundershowers are likely to occur at few places over the State.

Advisories

- Weather was mainly dry during last week and rain / thundershowers are likely to occur at a few places over the State for next three days. Under the circumstances, apply required irrigation to bring the soil moisture to field capacity in vegetables.
- Maintain 5-7cm of standing water in the rice field where the crop is at grain formation stage.
- Continue field preparation, sowing/transplanting of onion, tomato, cabbage, cauliflower, brinjal, chilli, potato and pea.
- Sowing of rabi pulses, oilseeds, maize, potato and wheat may be done.
- Weeding, intercultural operation, application of fertilizer may be done in a non rainy day in early planted vegetable crops.

Sikkim

Rain / thunder showers are likely to occur at a few places over the State.

Advisories

- There was no significant rainfall during last week and rain/thundershowers are likely to occur at a few

places over the state. Under the circumstance, apply required irrigation to **vegetables** to bring the soil moisture to its field capacity.

- Continue harvesting of **large cardamom, orange and rice**.
- Continue sowing of **wheat, mustard** and transplanting of **rabi vegetables**.

Arunachal Pradesh

Sky remained partly cloudy to mainly clear over the State.

Rain / thundershowers are likely at a few places over the State.

Advisories

- There was no rainfall during last week and isolated rain/thundershowers are likely at a few places over the State for the next three days. Under these conditions, apply irrigation to bring the soil moisture to field capacity to new crops of **ginger and winter vegetables**.
- Field preparation on a non-rainy day and sowing of **potato, wheat and mustard** may be continued.
- Intercultural operation may be done as and when required in early sown **mustard, ginger and winter vegetables** on a non rainy day.
- First top dressing in early sown **potato** (33Kg Urea/ha.) followed by earthing up and spraying with 1.25 kg Dithane M-45 in 500 lit. water may be done on a non rainy day.

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

Gujarat

Rainfall occurred at isolated places over South Gujarat region on 6th & 8th November.

Weather will be mainly dry over the State.

Advisories

- As there was no significant rain in the State during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to **sugarcane, pre-monsoon irrigated cotton, Kharif cotton, castor and mustard** to bring the soil moisture to field capacity.
- Continue harvesting of **kharif rice and kharif groundnut**.
- For monitoring & management the **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 5 to 6 times as per requirement depending upon infestation found in field.
- If **white fly** population crosses economic threshold level in **cotton**, spray Neem oil @ 4 liter / ha.
- Prepare land and continue sowing of **wheat** crop. Select varieties from Lok-1, GW-496 (125-130 kg seeds / ha), GW-190 (100 kg seeds / ha), GW-503,273, 322 (125 kg seeds / ha), Raj-1555(duram) (150 kg seeds / ha), Lok-1, Gw-173 (150 kg seeds / ha) for irrigated wheat and GW-1, A-206 (50 – 60 kg seeds / ha) for non-irrigated wheat for sowing. Apply basal fertilizer dose 60 kg Nitrogen, 60 kg phosphorus / ha for irrigated wheat and 20 kg Nitrogen for unirrigated wheat in furrow at the time of sowing.

Chhattisgarh

Rain / thundershowers are likely at a few places over the State.

Advisories

- As there was no significant rainfall in Bilaspur, Durg, Kowardna and Raipur districts during last week and rain/thundershowers are likely at a few places over the State for next three days, apply irrigation to **sugarcane and vegetables**.
- As there was excess rainfall in remaining districts during last week, postpone irrigation to the crops in these districts.

- Maintain 5 – 7 cm water in **rice** field wherever crops are at grain formation stage.
- Continue preparation of land on a non-rainy day and sowing of **gram, linseed, safflower, mustard** and **toria**.
- Seeds of **gram** may be treated with 2 to 2.5 gm Thiram / Captan / kg seeds & 250 gm Rhizobium +PSB / 10 kg seeds before sowing.

Maharashtra

Rain has occurred at most places in Madhya Maharashtra, at a few places in Konkan, at isolated places in Marathwada. Mainly dry weather prevailed over Vidarbha.

Isolated rain / thundershowers are likely over Marathawada, south Madhya Maharashtra, south Konkan & Goa and Vidarbha. Mainly dry weather is likely over the rest region.

Advisories

- As there was no significant rain during last week in Ahmednagar, Jalgaon, Aurangabad, Latur, Nanded, Parbhani, Akola, Amraoti, Chandrapur and Gondia districts of the State and isolated rain / thundershowers are likely over Marathawada, south Madhya Maharashtra and Vidarbha and mainly dry weather is likely over the rest region, apply irrigation to **Sugarcane, kharif cotton, tur** and **Cotton (irrigated)** crops in these districts.
- As remaining districts received excess rain during last week, postpone irrigation in these districts.
- Mild incidence of **White Woolly Aphids** in Aurangabad, Latur, Kohlapur and Pune and **Pyrilla, White fly** and **Mealy bug** in Nashik in sugarcane, **Rice hispa** in Kolhapur, Pune, Nagpur division and **Nasik district & Midge fly** in Nagpur division in **Kharif rice**, **panicle worm** in Latur division in jowar, **Aphids** and **Jassids** in Aurangabad Latur and Vidarbha div, **Sap sucking insects** in Aurangabad and Latur div. and **Boll worm** in Latur div. in irrigated cotton and **Aphids** and **Jassids** in Aurangabad and Vidarbha division in **kharif cotton** and **leaf roller** in Aurangabad and Latur division in tur is reported.
- Monitor **White Woolly Aphids** in **sugarcane** and if crosses economic threshold level, release 2500 eggs or larvae of *Krisoperla Karnea* or *Konobatra Aphidivora* parasite on the leaves or spray Endosulphan @ 500 ml plus Metasistox 1000 ml and 500 ml sticker or 1 kg detergent powder mixed in 500 liter water / ha.
- Monitor infested plants by Hispa in **rice** & if exceeds economic threshold level, spray Copper oxychloride 50 % @ 1250 gm or Zyneb 75 % @ 1000 gm in 500 liter water.
- Monitor infested plants by Midge fly in **rice** & if exceeds economic threshold level, 10 % granular Phorate / ha may be mixed in the soil.
- Monitor aphids and jassids population in **cotton** and if crosses economic threshold level, spray methyl dimeton 25EC @ 320 ml or dimethoate 30EC @ 500 ml / ha in 500 liter water.
- Monitor Boll worm in **cotton** and if exceeds economic threshold level, spray 36 % Monocrotophos WSC or 35 % Endosulphan WSC @ 850 ml / ha in 500 liter water.
- Monitor **leaf roller** population in **tur** and if crosses economic threshold level, spray 1000 ml endosulphon / ha in 500 liter water.
- Continue field preparation and sowing of **safflower, wheat, gram, rabi maize, sunflower** and planting of **sugarcane (Pre-seasonal)** and **potato**.
- Select varieties like HD 2189, 2278, 2380, DWR 162, MACS 2496, Tryambak, Godawari for **irrigated wheat**, Vikas, Fule-G 12 (70 kg seeds), Vishwas, Vijay (85 kg seeds) & Vishal, Virat (100 kg seeds) / ha for **gram**, CO-740, CO-7219, CO-86032, CO-M-88121 for **sugarcane (Pre-seasonal)** and Kufari-Sinduri, Kufari-Lavkar, Kufari-Chandramukhi for **potato**.
- Postpone plantating of **potato** in Sangli, Solapur and Kolhapur districts.

Madhya Pradesh

Rainfall occurred at isolated places in West M.P on 8th November and dry weather prevailed over the rest of

the State on remaining period.

Mainly dry weather is likely over the State.

Advisories

- Conserve moisture in **tur** as the crop is now at maturity stage.
- Undertake land preparation and sowing of *rabi* crops like **wheat, gram, mustard**.
- Before sowing, undertake seed treatment with Carbendazim @ 1.5 grams and Thiram @ 1.5 grams or *Trichoderma viridi* @ 5grams for 1 kg of seed.

Orissa

Rainfall occurred at a few places over the State on 8th November and at isolated places during the remaining days.

Rain / thundershowers are likely at many places over coastal areas of the State and at a few places over the rest region.

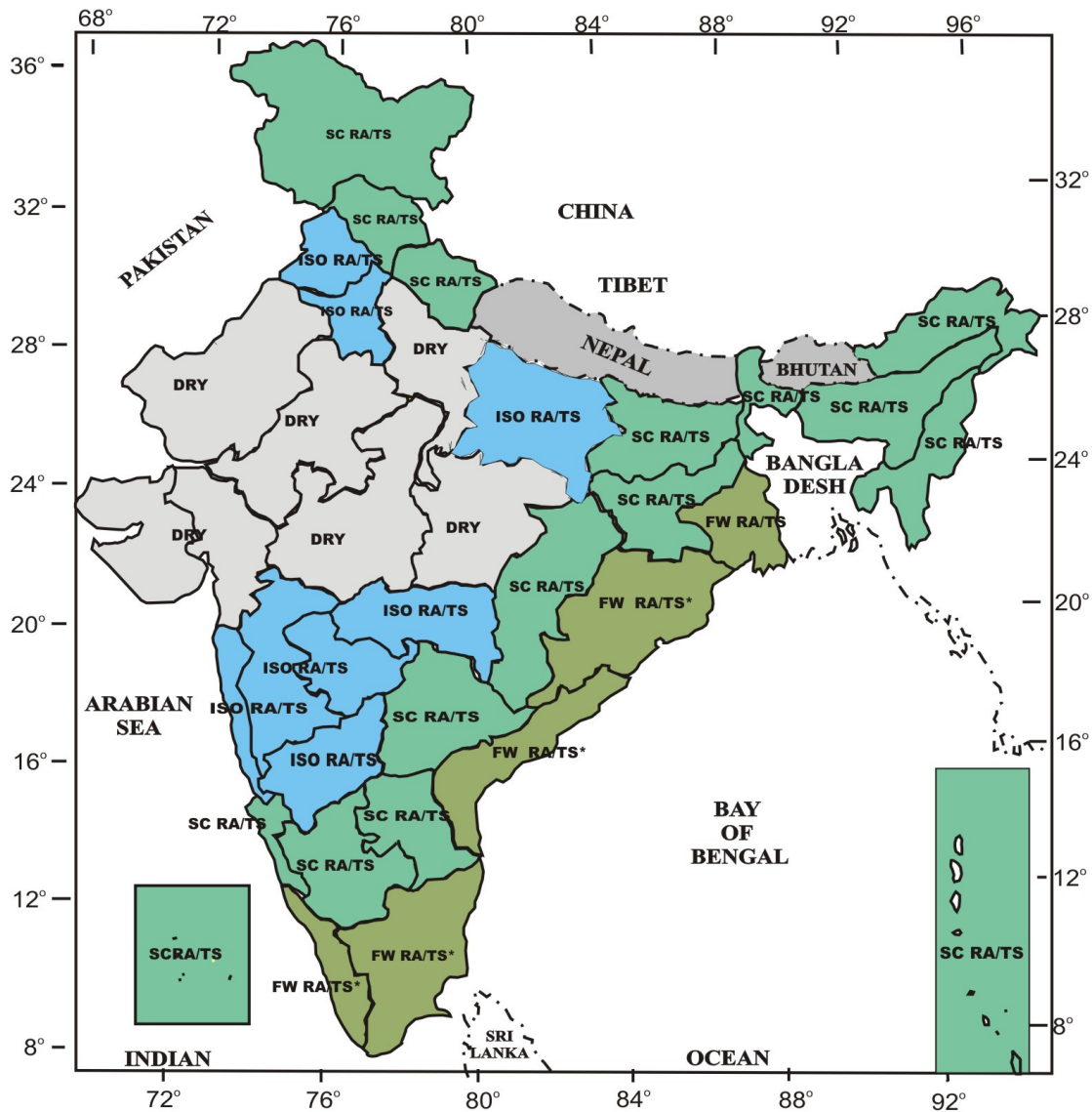
Heavy Rainfall Warning: Isolated heavy rainfall is likely over coastal Orissa during next 48 hours.

Advisories

- Rainfall occurred at few places over the State during last week. Rain / thundershowers are likely at many places with isolated heavy rainfall over coastal areas of the State and at a few places over the rest region for next 3 days.
- Under the circumstances, postpone irrigation to the crops in coastal areas and apply irrigation in remaining areas.
- Also postpone inter cultural operation, application of fertilizer and plant protection measures to crops in coastal areas and perform the same in remaining areas.
- Continue transplanting of **vegetables**. Postpone the same in coastal areas.
- Field preparation and sowing of *rabi* **groundnut, mung, kulthi, field pea and mustard** may be done. Postpone the same in coastal areas.
- Harvest the matured **rice** crop on bright sunny days.
- There are reports of **arhar** crop infested by **blister beetle in Pulses/ oilseeds**. Collect the adults and kill them by kerosine water or detergent solution.

Forecast Map

Valid upto 12th November



ISO - Isolated, TS - Thunder shower/storm, SN - Snow,
 RA - Rain, DRY - No rain, SC - Scattered, MOD-Moderate,
 SQ - Squall, HA- Hail. DS - Dust Storm, FW - Fairly Widespread
 * - With heavy Rain warning

Salient weather features for the week ending 08/11/06

METEOROLOGICAL ANALYSIS

- Easterly waves affected the peninsular region during the entire week. It also affected adjoining areas of west and central India and coastal Orissa during second half of the week.
- An upper air trough in westerly at 500 hPa level persisted to the north of 15°N slowly moving eastwards from 70°E to 80°E during the week.
- The western disturbance as an upper air system affected western Himalayan region during second half of the week.

RAINFALL

Under the influence of the above systems:

- Fairly widespread rainfall occurred over Tamil Nadu & Pondicherry during many days and over Kerala, Coastal & South Interior Karnataka and Coastal Andhra Pradesh during a few days of the week. Scattered/isolated rainfall activity also occurred over remaining parts of south peninsula during many days of the week.
- Rain / thundershowers occurred at a few places over coastal Orissa, Konkan & Goa and Madhya Maharashtra during second half of the week. Isolated rain / thundershowers also occurred over central India Gujarat and northeastern States during this period.
- Isolated rain / snow occurred over western Himalayan region during the second half of the week.
- The weather remained mainly dry over the rest regions during the week.

TEMPERATURES

- The night temperatures were appreciably/markedly above normal over many parts of northwest & central India during the week. They were also above normal over remaining parts of the country except over extreme south Peninsula where they were normal during many days of the week.

RAINFALL DURING THE WEEK ENDING ON 8TH NOVEMBER, 2006

Rainfall was excess/normal in 16 and deficient/scanty in 13 and no rain in 7 out of 36 meteorological sub-divisions (Actual: 13.2 mm, Normal: 9.6 mm and Departure: +37%).

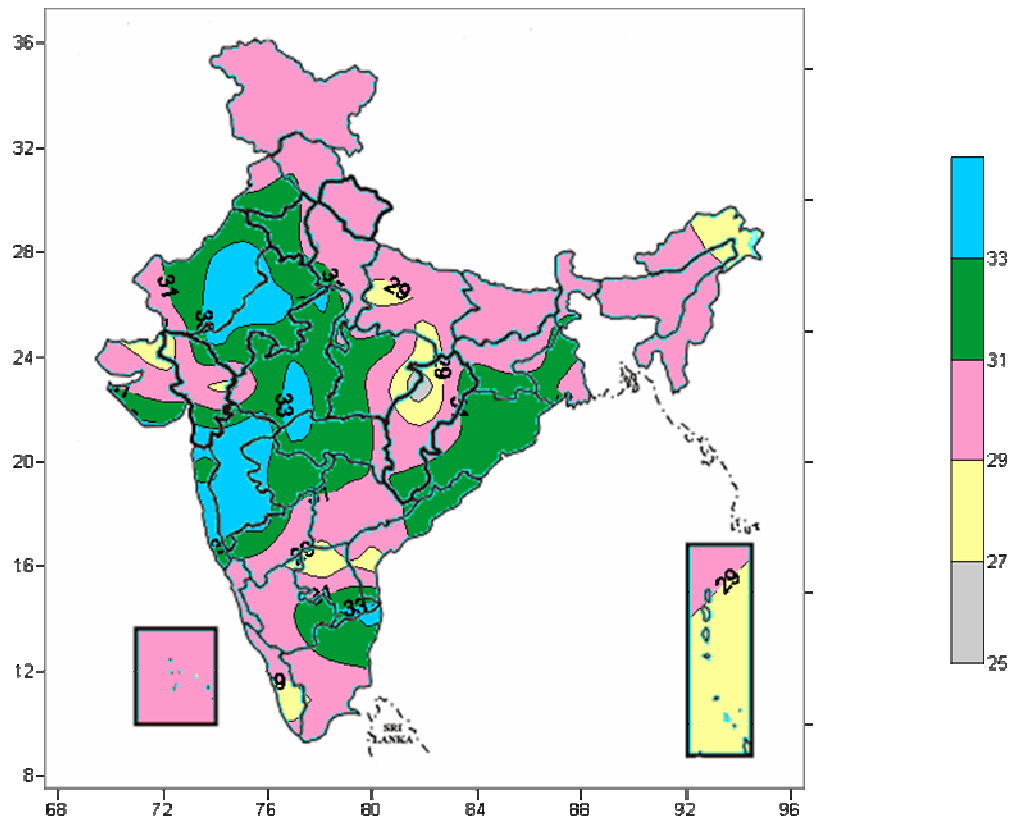
CUMULATIVE SEASONAL RAINFALL (1ST OCTOBER TO 8TH NOVEMBER, 2006)

Rainfall was excess/normal in 12 and deficient/scanty in 24 out of 36 meteorological sub-divisions. (Actual: 67.0 mm, Normal: 89.2 mm and Departure: -25%).

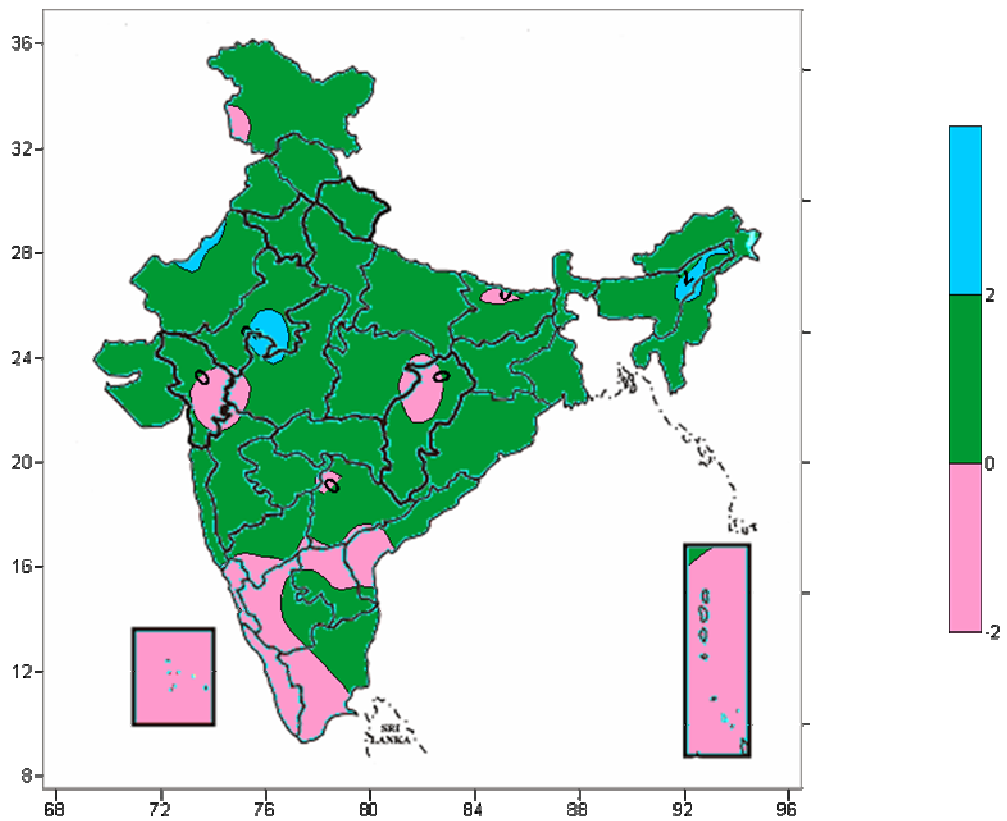
OUTLOOK FOR THE WEEK ENDING ON 15TH NOVEMBER, 2006.

- Under the influence of a western disturbance, scattered rainfall activity likely over western Himalayan region and adjoining plains during first half of the week and decrease thereafter.
- Fall in night temperatures and occurrence of Fog likely over northwest India from middle of the week.
- Under the influence of easterly wave, ongoing enhanced rainfall activity is likely to continue over south Peninsula, east coast and adjoining areas during first half of the week and decrease thereafter.

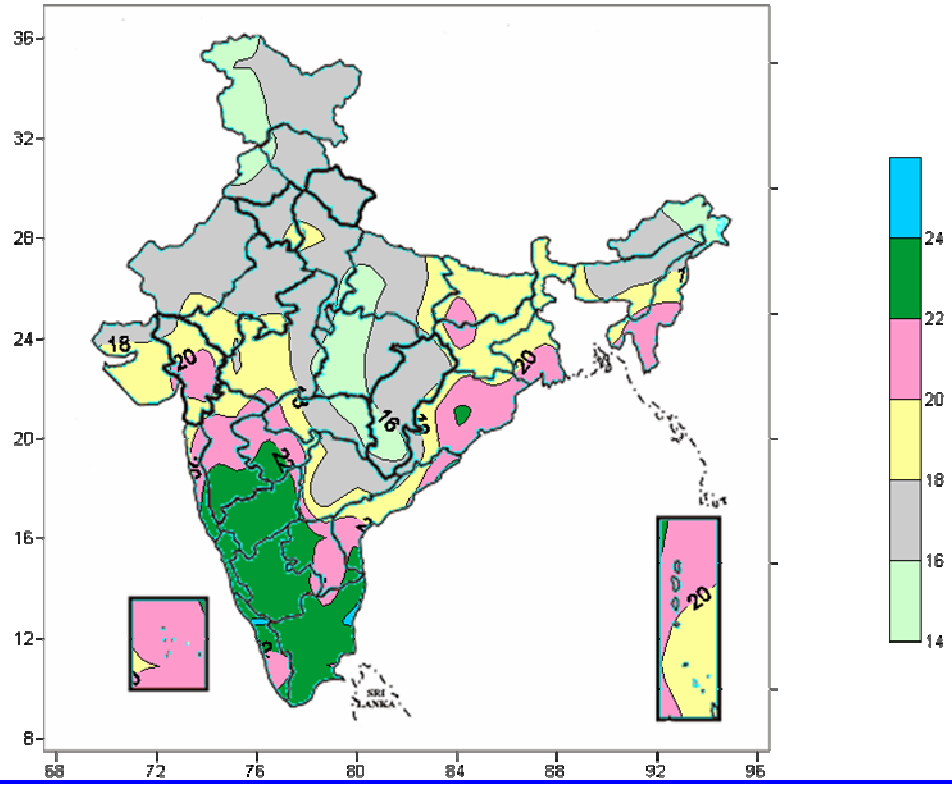
Actual mean maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 08.11.06



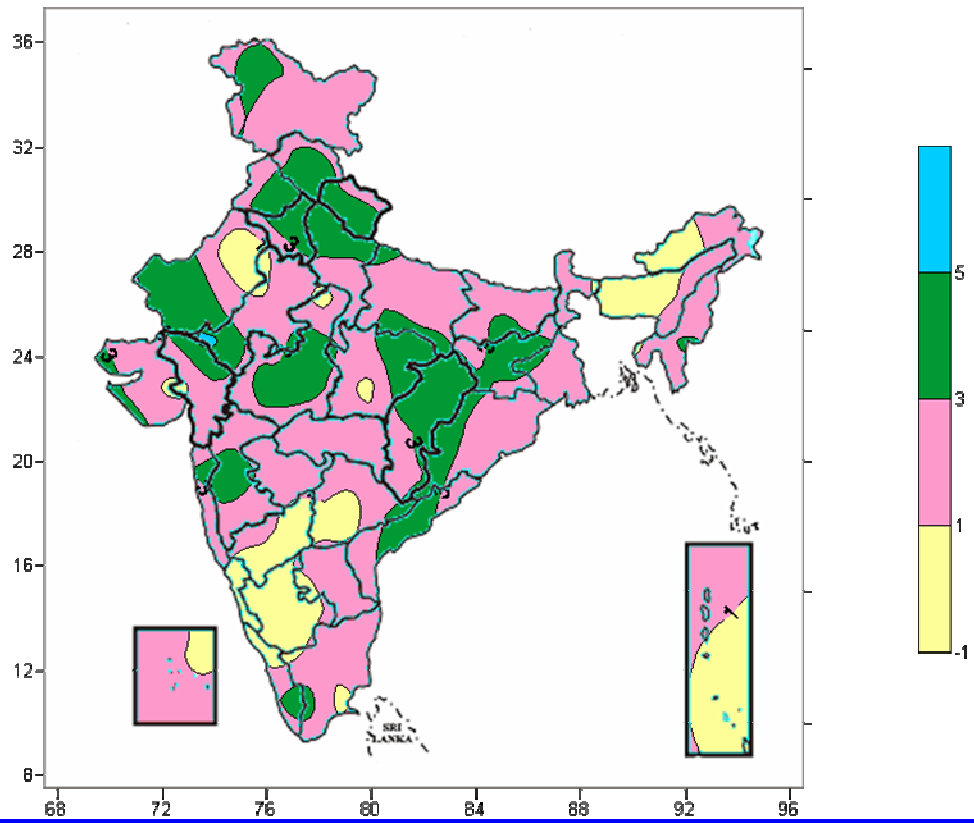
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 08.11.06



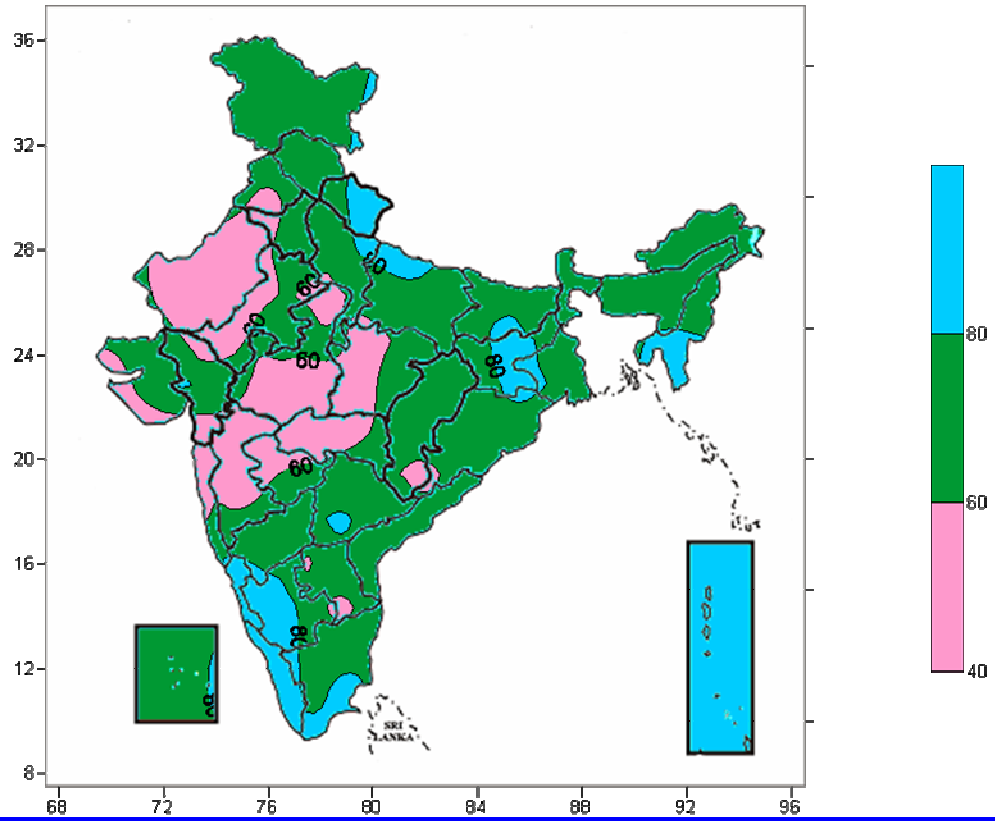
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 08.11.06



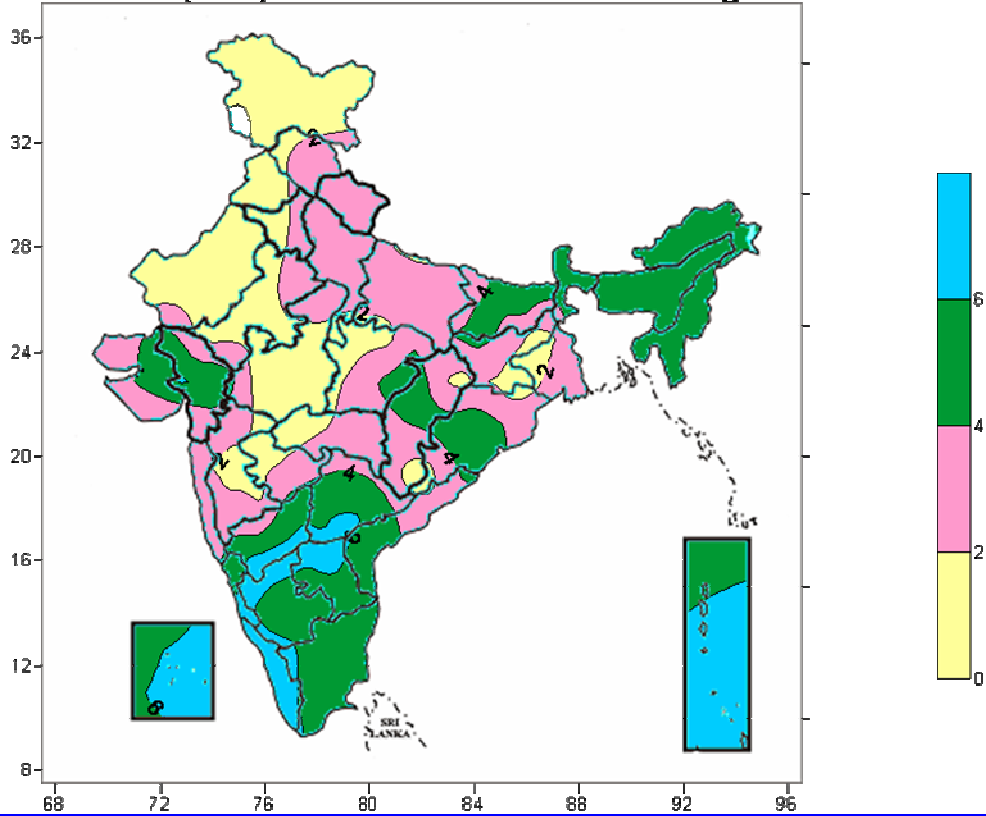
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 08.11.06



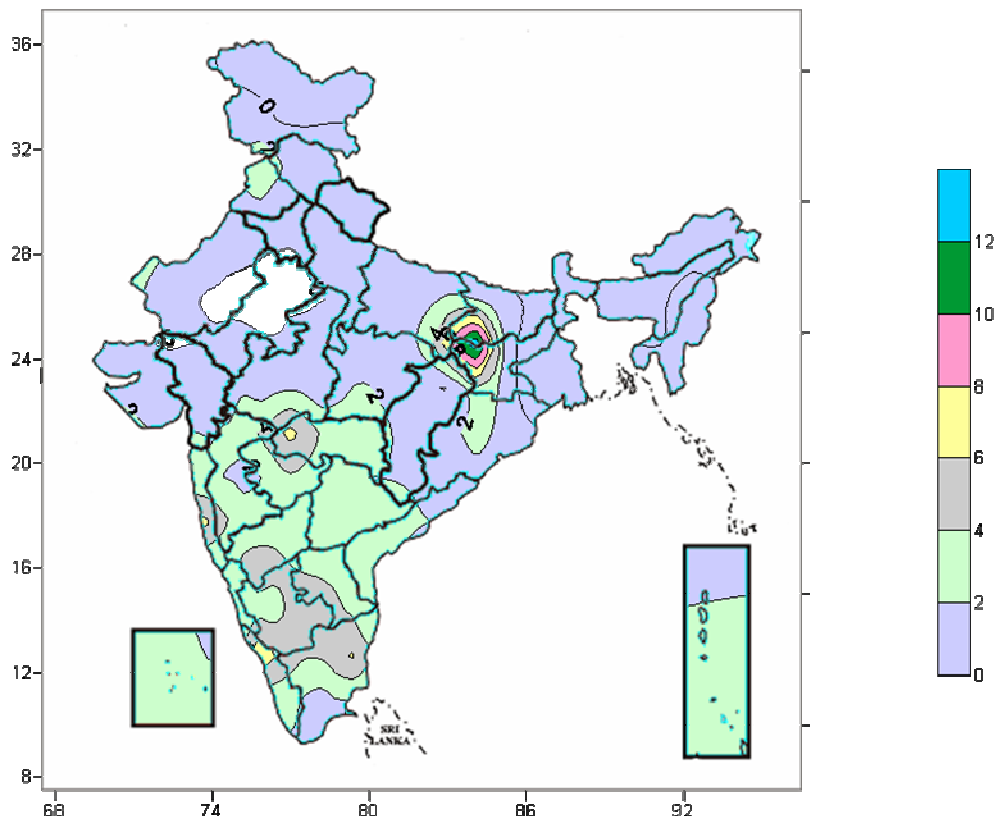
Relative humidity (%) over India for the week ending 08.11.06



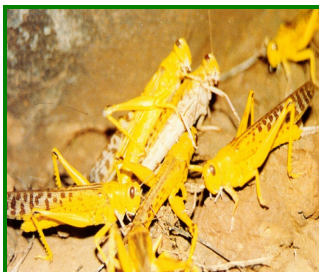
Cloud amount (okta) over India for the week ending 08.11.06



Wind speed (knots) over India for the week ending 08.11.06



Desert Locust Forecasting



Rainfall (mm)							
Station Name	2.11.06	3.11.06	4.11.06	5.11.06	6.11.06	7.11.06	8.11.06
Amritsar	NIL						
Barmer							
Sriganganagar							
Jaisalmer							
Kota							
Deesa							
Churu							

Temperature (degree celcius)							
Station Name	2.11.06	3.11.06	4.11.06	5.11.06	6.11.06	7.11.06	8.11.06
Amritsar	21.5	22.5	22.0	22.0	21.5	22.0	-
Barmer	-	25.5	25.0	24.0	24.0	-	26.0
Sriganganagar	24.0	23.0	22.5	23.5	24.5	25.0	25.0
Jaisalmer	27.0	25.5	25.5	27.0	26.5	26.0	27.0
Kota	26.0	25.0	25.5	25.5	-	26.0	26.0
Deesa	27.5	28.0	27.0	26.5	27.0	27.5	-
Churu	-	-	-	-	-	-	-

Wind

Station Name	2.11.06		3.11.06		4.11.06		5.11.06		6.11.06		7.11.06		8.11.06	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	-	-	11	NNW	05	NNW	-	-	04	NE	10	SSE	-	-
Barmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sriganga nagar	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deesa	-	-	03	NNE	10	NNE	-	-	05	WSW	03	SSW	05	NNE
Churu	-	-	15	NE	05	NE	-	-	15	WNW	08	W	06	WNW

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

CROP – STATE – STAGE

Delhi

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

Haryana

Horticultural crop	Sugarcane	Gram /Lentil	Rabi oilseeds	Wheat
Sowing/plantation	Vegetative	Sowing/early vegetative	Sowing	Sowing/early vegetative

Himachal Pradesh

Wheat	Gram		Vegetables (Tomato, brinjal, ladies finger)	Barley
Land preparation/sowing	Land preparation/sowing		Vegetative/flowering / fruiting / harvesting	Land preparation/sowing
Early sown Wheat	Early sown Gram	Early sown Barley	Summer vegetables Radish, Turnip, Carrot	Summer vegetables (Cauliflower, Cabbage) /Aricle peas
Germination	Germination	Germination	Sowing	Preparation of nursery in low hills & Transplanting in high hills / Sowing

Jammu & Kashmir

Winter vegetable crops	Rice	Mustard	Gram/Pea	Wheat
Sowing	Grain maturity	Sowing	Sowing	Sowing
Wheat	Barley	Toria	Brown Sarson	Lentil
Sowing	Sowing	Sowing	Sowing	Sowing

Punjab

Sugarcane	Rabi oilseeds	Gram	Horticultural crop	Wheat
Vegetative	Sowing	Sowing / early vegetative	Sowing/plantation	Sowing / early vegetative

Rajasthan

Cotton	Groundnut	Wheat	Gram	Barley
Boll picking	Harvesting	Land preparation/sowing	Land preparation/sowing	Land preparation/sowing

	Mustard	Cumin		
	Land preparation / sowing	Land preparation/sowing		

Uttar Pradesh

Kharif Pulses/	Sugarcane	Kharif Vegetables	Winter Vegetables	Mustard, Rai
Harvesting	Cane maturity / harvesting	Harvesting	Early vegetative	Sowing
Mango	Rabi pulses	Kharif rice	Early sown Mustard & Rai	Kharif Groundnut
Active growth	Sowing	Harvesting	Early vegetative	Harvesting
Wheat	Barley			
Sowing	Sowing			

Uttaranchal

Rice	Mango/Litchi	Wheat	Sugarcane	Toria
Maturity/harvesting	Active growth	Sowing	Grand growth	Seedling/early vegetative
	Millets (Ragi)	Pea & Potato		
	Maturity/harvesting	Seedling/early vegetative		

Assam

Maize	Sugarcane	Wheat	Vegetables	Balck gram and Green gram
Harvesting	Cane maturity / harvesting	Land preparation/sowing	Land preparation / sowing	Flowering pod formation
Sali rice	Arhar	Rape seed and Mustard	Early sown Rape seed and Mustard	Pea, Lentil and Potato
Grain formation/maturity/harvesting	Pod formation/maturity	Land preparation/sowing	Early vegetative	Land preparation/sowing

Arunachal Pradesh

Mustard	Ginger	Potato	Wheat	Winter vegetables
Land preparation / sowing	Vegetative	Land preparation / sowing	Land preparation / sowing	Vegetative
Early sown Potato				
Early vegetative				

Bihar

Fruits and Vegetables	Winter vegetables	Rice	Early sown Maize	Rabi Maize
Vegetative	Sowing / transplanting	Maturity/harvesting	Germination	Field preparation / sowing
Pulses and Oil seeds	Potato	Rabi Oil seeds (Toria, Sarson, Linseed)*early sown	Rabi Pulses (Lentil, Gram, Pea)*early sown	Maize
Seed maturity	Field preparation / sowing	Field preparation / sowing/*Early vegetative	Field preparation / sowing/*Early vegetative	Cob maturity/harvesting
Wheat				
Land preparation/sowing				

Jharkhand

Rice	Rabi Maize	Wheat	Rabi Maize
Grain formation/maturity	Field preparation /sowing	Field preparation /sowing	Field preparation /sowing
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)	Early planted kharif vegetables	Rabi pulses and oilseeds	Pea & Onion
Transplanting	Early vegetative / vegetative	Field preparation /sowing	Sowing
Potato			
Field preparation /sowing			

Sikkim				
Orange	Rice	Large Cardamom	Rabi vegetables	Wheat
Early harvesting	Grain maturity/early harvesting	Harvesting	Early vegetative/vegetative Transplanting – in some areas contd.	Sowing
Mustard				
Sowing				
West Bengal				
Boro rice	Sugarcane	Wheat	Maize	Rapeseed, Mustard
Field preparation / sowing	Cane development	Land preparation / sowing	Field preparation / sowing	Land preparation / sowing
Groundnut	Lentil	Gram and Lentil	Aman rice	
Pod maturity / harvesting	Field preparation / sowing	Field preparation / sowing	Grain formation / maturity	
Chattisgarh				
Gram	Vegetables (Tomato, chilli, brinjal)	Sugarcane	Kharif rice	Linseed, Safflower, Mustard, Toria
Field preparation/sowing	Vegetative	Cane development	Grain formation/maturity/harvesting	Field preparation/sowing
Gujarat				
Mustard	Pre-monsoon irrigated Cotton	Kharif Groundnut	Wheat	Sugarcane
Vegetative	Boll formation / picking	Harvesting	Land preparation/sowing	Cane development/early maturity
Kharif Cotton	Castor	Kharif Rice		
Square / boll formation	Vegetative/flowering	Harvesting		
Maharashtra				
Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Tur (Madhya Maharashtra, Marathwada & Vidarbha)	Irrigated Cotton	Sugarcane (Seasonal) (Madhya Maharashtra, Marathwada and Vidarbha)	Rabi Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)
Grain maturity/harvesting	Flowering/pod formation	Boll formation /boll maturity/picking	Elongation/cane maturity	Germination/early vegetative
Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif rice (Konkan)	Kharif rice (Madhya Maharashtra, Marathwada & Vidarbha)
Field preparation/planting	Square formation/Boll formation	Germination/early vegetative	(medium varieties) Grain formation/Grain maturity/harvesting/ (late varieties) Grain formation/grain maturity	Flowering / grain formation (in Vidarbha) Grain formation /Grain maturity (in Madhya Maharashtra, Marathwada)
Gram (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi maize (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Early sown Wheat (Madhya Maharashtra, Marathwada & Vidarbha)
Field preparation / sowing	Germination/early vegetative	Germination/early vegetative	Field preparation/planting	Germination
Early sown Gram	Early sown Sugarcane	Early sown Potato (Madhya Maharashtra,	Wheat (Madhya	

(Madhya Maharashtra, Marathwada & Vidarbha)	Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Marathwada & Vidarbha)	Maharashtra, Marathwada & Vidarbha)	
Germination	Sprouting	Sprouting	Field preparation / sowing/	

Madhya Pradesh

Wheat	Mustard	Kharif crops	Masoor	Linseed
Sowing	Sowing	Pod maturity	Sowing	Sowing
Gram				
Sowing				

Orissa

Vegetables		Mustard	Rabi Groundnut	Sugarcane
Transplanting		Sowing	Sowing	Vegetative / tillering
Kharif Rice		Pulses	Oilseeds	Early sown pulses
Maturity/harvesting		Sowing (Biri / Mung / Kulthi)	Sowing	Pod maturity

Andhra Pradesh

Kharif rice	Kharif crops(Chillies/Tur)	Maize	Groundnut	Cotton
Grain development	Pod formation/ Chillies-fruited/harvesting	Harvesting	Pod formation	Boll maturity

Karnataka

Groundnut	Sugarcane (Ratoon crop & new crop)	Kharif crops (jowar, maize)	Kharif rice	Kharif cotton
Pod harvesting	Maturity/early harvesting	Harvesting	Grain development	Boll maturity/picking
Rabi jowar, wheat and maize				
Sowing				

Kerala

Rubber		Pepper	Mundakan rice	
Tapping		Berry development /maturity	Transplanting/tillering	

Tamil Nadu

Early sown Pulses (Black gram and green gram)	Millets	Cotton	Early & mid sugarcane	Early sown oilseeds
Vegetative	Sowing	Sowing	Maturity	Vegetative
Rice (Kuruvai)	Rice (Samba)	Pulses (Black gram and Green gram)	Oilseeds (Groundnut, Sunflower)	Early sown Millets
Dough	Nursery/transplanting	Sowing	Sowing	Seedling