



Summary of Agromet Advisory Services for different States of the country
Issued by
Agricultural Meteorology Division, India Meteorological
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(For the period 7th December to 11th December, 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

Due to passage of western disturbance over J & K from 4th to 6th December light or moderate rainfall has occurred almost in all districts on 5th and 6th December and at isolated places on 4th December.

Mainly dry weather is likely over the State. Fog conditions are likely to continue over some parts of Punjab on 8th and 9th December.

Advisories

- Weather is likely to be mainly dry over the State for the next 3 days. Under the circumstances, apply irrigation in **sugarcane, gram, lentil and wheat**.
- Continue sowing of **rabi oil seeds**. Start sowing of late varieties of **wheat** like Sonalika, WH- 291, 396, PBW 373,138 and RAJ-3765 utilising recent rainfall.
- Undertake necessary weeding and intercultural operation to control weeds in **rabi oilseeds, gram and lentil**.
- Make necessary arrangements to protect the **rabi oilseeds, gram, lentil, wheat and vegetable** crops from cold / frost injury. Apply light irrigation and arrange for smoke around the field to prevent frost injury.

Haryana

Due to passage of western disturbance over J & K from 4th to 6th December light rainfall has occurred in the State at many places on 6th December and few places on 5th December and isolated places on 4th December.

Mainly dry weather is likely over the State. Fog conditions are likely to continue over some parts of the State on 8th and 9th December.

Advisories

- Weather is likely to be mainly dry over the State for next 3 days. Under the circumstances, apply irrigation to **sugarcane, gram, lentil and wheat**.
- Continue sowing of **gram, lentil and rabi oil seeds**. Start sowing of late varieties of wheat i.e. Sonalika, WH- 291, 396, PBW 373,138 and RAJ-3765.
- 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.
- 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.

Rajasthan

Rain / thundershowers occurred at a few places in **Jodhpur** and **Bikaner** divisions and remained mainly dry in rest State. Night average temperatures were appreciably above normal by 3⁰C to 4⁰C in all the divisions of the State.

Mainly dry weather is likely over the State. Fog conditions are likely to continue over the state during next 48 hours.

Advisories

- Complete picking of matured crop of **cotton**.
- This is proper time for sowing of **barley**, **cumin** and **wheat**. Continue land preparation and sowing. Undertake seed treatment before sowing.
- Apply pre-sowing irrigation before sowing of **wheat**. Select varieties among GW-173,190, PBW-343, HD-2329, Raj-1482, 3077, 3765 etc. for sowing.
- Undertake intercultural operations in early sown **mustard** and **gram** to keep the field weed free. Topdress urea in **mustard** crop before light irrigation.

Uttar Pradesh

Weather was mainly dry in all divisions of the State during the period.

Weather will be mainly dry in the State.

Advisories

- There was no significant rainfall during last week and mainly dry weather is likely over the State for the next three days. Under the 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**.
- Sowing of **rabi wheat** and **barley** crops may be completed.
- Harvesting of **sugarcane** and **khariif vegetables** may be continued.

Himachal Pradesh

The precipitation occurred at isolated places.

Isolated rain / snowfall is likely over Jammu & Kashmir during next 24 hours. Rain / snowfall activity is likely to commence again in the state from 10th December.

Advisories

- As there was no significant rain during last week in most of the districts of the State, apply irrigation to **vegetable** crops, **gram** and early sown **wheat** and **barley** wherever crops are at vegetative stage.
- Continue land preparation and sowing of **methi** and **palak** in the low and mid hills and nursery sowing and transplanting of **cauliflower** and **cabbage** in low and mid hills, sowing of **radish**, **turnip** and **carrot** and also sowing of **wheat** and **barley** in rainfed areas.
- Select varieties from HPW-42 and HS-295 for late sowing of **wheat**, and Vimal (HBL-113), Dolma; Sonu (HBL-87); Gopi (HBL-316), Harit (HBL-276) for **barley**.
- 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

Moderate rain was recorded at a few places & very light rain at isolated places on 6th December and light rain was recorded at a few places on 5th December. Weather remained mainly dry during the rest of the week. Sky remained mainly clear to mainly cloudy during the period.

Mainly dry weather is likely over the State.

Advisories

- There was no significant rainfall during last week in the state except in **Dehradun** and **Gahrwal Tehri** districts and mainly dry weather is likely over the State. Under the circumstances, apply irrigation to **pea**, **toria**, **potato** and **sugarcane** crops to bring the soil moisture to its field capacity. Apply irrigation depending upon the soil profile stored moisture in the above mentioned districts.
- Carry out inter cultural operation, application of fertilizer and plant protection measures to **mango**, **toria**, and **potato** crops.
- Apply light irrigation and arrange for smoke around the field to prevent frost injury in **potato**, **wheat** and **toria**.
- Start harvesting matured crop of **pea** on bright sunny days.

Jammu & Kashmir

Heavy rain / snow occurred at most places on 5th and 6th December with very heavy falls at isolated places on 5th December. Moderate to heavy rain / snow again occurred at many places on 4th December and at isolated places on 3rd December over J& K State.

Isolated rain / snowfall is likely over Jammu & Kashmir during next 24 hours. Rain / snowfall activity is likely to commence again in the State from 10th December.

Advisories

- Apply irrigation and arrange for smoke near the field in Jammu & Kashmir divisions to safeguard the crops from cold / 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.
- Continue sowing of **wheat** in Kashmir division. Before sowing, undertake ploughing followed by planking to conserve moisture.
- Rouge out virus affected crops of **brinjal**, **tomato**, **cauliflower** and **cabbage** in Jammu division.
- Start harvesting matured fruits of sweet **orange** in Jammu division.

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** and **wheat** and also to **barley**, **gram**, **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**, **cabbage** and **knolkhol** plants.
- Prepare land and perform sowing of Japanese White, Reshmi and Pusa Himani varieties of **raddish**. Treat the seeds with Captan or Thairam or Dithane M- 45 @ 2 g / kg seeds.
- Prepare land and continue sowing of **wheat**.
- Select varieties from HD-2285, Raj-3077 or 3765, UP 2338 and PBW-226 or 373 etc. for late sown **wheat** for sowing.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Northeast monsoon was weak over the State on 5th December. Rain / thundershowers occurred at isolated places on 5th December and dry weather prevailed on 4th & 6th December.

Mainly dry weather likely over the State.

Advisories

- There was no significant rainfall in the State during last week and dry weather is likely to prevail for the next three days. Under the circumstance, apply irrigation to the **plantation crops** and **mundakan rice** to bring the soil moisture to its field capacity.
- Attack of **root grub** and **mahali** disease is reported in **arecanut**. Apply Phorate @ 10 g / tree to control root grub. Spray 1% Bordeaux mixture on fruit bunches and crown to control **mahali** disease.
- Attack of **pollu beetle** and **quick wilt** is reported in **pepper**. Avoid spraying as the crop is now at harvesting stage.
- Attack of **Leaf eating caterpillar**, **mite**, **red palm weevil** insects, **leaf rot** and **bud rot** disease is reported in **coconut**. Fill the leaf axils with 25 g Sevidol 8G and fine sand 200 g for controlling **red palm weevil**. Spray 1% Bordeaux mixture on spindle leaves and crown to control **leaf rot**. 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 to control **leaf eating caterpillar**. Spray garlic-neem emulsion to control **mite**.
- Attack of **bunchy top** 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 Chlorophyriphos @ 2.5 ml / litre of water to control **pseudo stem weevil**.
- Weeding, intercultural operations, application of fertilizers to plantation crops and new planting may be continued.

Tamilnadu

Rainfall occurred at one or two places over the State on 4th and 5th December and dry weather prevailed on 6th December.

Rain / thundershower is likely at isolated places over south Coastal Tamilnadu & mainly dry weather over rest region of the State.

Advisories

- Rain / thundershowers is likely to occur at isolated places only in south coastal Tamil Nadu. Under the circumstance, apply irrigation to the standing crops to bring the soil moisture to its field capacity.
- Incidence of **internode borer** has been reported in **sugarcane**. Monitor the crop continuously as the weather conditions are favourable for further spread. Release *Trichogramma chilonis* @ 5 cc/ha parasite to control the pest. Repeat after 15 days.
- Continue transplanting of **samba rice**.
- Continue land preparation and sowing of **cotton**, **pulses** and **sunflower**.

Karnataka

Dry weather prevailed over the State.

Mainly dry weather is likely over the State.

Advisories

- Dry weather is likely to prevail for the next three days. Under the conditions, apply irrigation to early sown **rabi** crops like **jowar**, **wheat** and **maize** to bring the soil moisture to its field capacity.
- Farmers are advised to undertake repairing of old bunds & cleaning of canals wherever it is required.
- Harvest the matured **kharif** crops like **rice**, **cotton** and **sugarcane** on bright sunny days.
- Attack of **army worm** has been reported in **sugarcane** in **Bidar** and **Bagalkote** districts in north interior Karnataka subdivision. Avoid spraying as the crop is now at harvesting stage.

Andhra Pradesh

Except light rainfall at Paderu on 4th December, dry weather prevailed over the State during the remaining period. Mainly dry weather is likely to prevail over the State. Increase in rainfall activity over the state from 10th December onwards.

Advisories

- Apply irrigation to *rabi* crops like **gram**, **maize** and **groundnut** as there was no rainfall during last few weeks and dry weather is likely to prevail for the next three days.
- Incidences of **pod borer** have been reported in **red gram**. Avoid spraying as the crop is now at harvesting stage.
- Continue harvesting of matured **rice**, **tur**, **cotton** and **groundnut** on bright sunny days.
- Incidences of *Spodoptera exigua* has been reported in **gram** in **Kurnool**, **Kadappa** and **Anantpur** districts. Spray Thiodecarb @ 1gm or Acephate @ 1gm or Chlorpyrifos @ 3ml per litre of water to control the pest.

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

Assam

Weather was dry over the state during the period.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rain during last week in the State and mainly dry weather is likely over the State for the next three days, apply irrigation to **black gram**, **green gram**, **rapeseed** and **mustard** and early sown **potato**, **wheat**, **pea** and **lentil**.
- Mild incidence of **Pod and apion borer** in **arhar**, **aphids**, **jassids**, **flea beetle** and **leaf spot** in **black gram** and **green gram**, **aphids** and **saw fly** in **mustard** and **late blight** in **tomato** is reported.
- 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.
- 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**, **potato**, **wheat**, **pea** and **lentil** and **preparation of rice nursery**.

West Bengal

During the said period weather was 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 week and mainly dry weather is likely over the State for next three days, apply irrigation to **sugarcane**, **rapeseed** and **mustard**, **gram**, **wheat** and also to early sown **potato** wherever crops are at vegetative stage.
- Continue harvesting of matured **aman rice** on bright sunny days.
- 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.
- Land should be prepared and nursery sowing of **boro rice** and planting of **potato** 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*.

Bihar

Weather was 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, pulses, oilseeds and wheat*.
- Continue transplanting of early *cauliflower, chillies, brinjal* from ready seedling and sowing of *winter vegetables*.
- Continue field preparation and sowing of late sown *wheat and potato*.
- Weeding / thinning and top dressing operation may be continued in *rabi maize, pulses / oilseed* and earlier sown *vegetable* crops.

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 and maize*.
- Harvest the matured *rice* crop.
- Continue field preparation, sowing / transplanting of *onion, tomato, cabbage, cauliflower, brinjal, chilli, potato, garlic and pea*.
- Sowing of *rabi pulses, oilseeds, maize, potato and wheat* may be continued.
- Weeding, intercultural operation, application of fertilizer may be continued in early planted *vegetable* crops.

Sikkim

Sky remained partly cloudy during the period. No rain occurred during the period over East Sikkim.

Mainly dry weather is likely over the State.

Advisories

- There was no significant rainfall during last week and dry weather is likely to prevail over the State for the next three days. Under the circumstances, apply irrigation to *vegetables* to bring the soil moisture to its field capacity.
- Continue harvesting of *orange*.
- Continue sowing of *wheat*. Collect pre-treated healthy & certified seeds for sowing and apply recommended organic manure viz. FYM and compost before sowing.
- Undertake intercultural operations in *rabi vegetables and mustard* to keep the field weed free.

Arunachal Pradesh

Sky remained partly cloudy to mainly clear during the period over the State.

Mainly dry weather is likely over the State.

Advisories

- Mainly dry weather is likely over the State for the next three days. Under this condition, apply irrigation to the standing crops.
- Sowing of **potato**, **wheat** and **mustard** may be completed.
- Intercultural operation may be continued as and when required in early sown **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 Lit water may be continued.

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

Gujarat

Rainfall occurred at isolated places over Kutch on 5th December.

Mainly dry weather is likely over the State.

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.
- If population of sucking pests like **Aphids**, **Jassids**, **Thrips** & **Heliiothis** crosses economic threshold level in **cotton**, release chrysoperla eggs or first instar larvae @ 10000 / ha twice at the interval of 15 days.
- If **white fly** population crosses economic threshold level in **cotton**, spray Neem oil @ 4 liter / ha.
- 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 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) for normal sowing and Lok-1, Gw-173 (150 kg seeds / ha) for late sowing of irrigated wheat and GW-1, A-206 (50 – 60 kg seeds / ha) for sowing of non-irrigated wheat. 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

Weather remained dry in most of the districts of the State during the period.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall in most of the districts during last week and mainly dry weather is likely over the State for next three days, apply irrigation to **sugarcane** and **vegetables** and also to early sown **gram**, **linseed**, **safflower**, **mustard**, **wheat**, **potato** and **toria** wherever crops are at vegetative stage.
- Continue preparation of land and sowing of **gram**, **linseed**, **safflower**, **mustard** and **toria**, nursery sowing of **onion** and planting of **potato** and **sugarcane**.
- 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. Select varieties from Vaibhav, Vijay, J.G.- 74, I.P.C. - 2 etc. for gram.
- Select varieties from Kanchan, Bilasa, G.W.-273, Lok-1, Sujata, Ratna etc. for sowing of **wheat**, CO-62175, C.O.L.K.-8001 etc. for planting of **sugarcane** and Kufri Badsaha, Kufri Sajlaj and Kufri Pukhraj for **potato**.

Maharashtra

Mainly dry weather prevailed all over the State.

Mainly dry weather is likely over the region.

Advisories

- As there was no significant rain during last week in the State and mainly dry weather is likely over the State for next three days, apply irrigation to *kharif* cotton, tur and Cotton (irrigated) crops and also to *rabi* jowar, safflower, *rabi* maize, sunflower, potato, onion, gram and early sown crops of wheat and sugarcane (Pre-seasonal).
- 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 & Midge fly in Nagpur division in *Kharif* rice, Aphids and Jassids in Aurangabad and Boll worm in Latur, Nashik and Amravati div. in irrigated cotton and Aphids and Jassids in Aurangabad and Vidarbha division in *kharif* cotton and leaf roller in Aurangabad, pod borer in Latur division in tur, Aphids and Leaf cater pillar in Nashik division and Sugary disease in Latur division in *rabi* jowar and downy mildew in Grapes in Nasik, Pune, Solapur, Sangli and some other districts is reported.
- 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.
- Monitor pod borer population in tur and if crosses economic threshold level, spray 5% Neem extract or 20 to 25 ml Fenvalerate / ha in 100 liter water.
- 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.
- For the control of downy mildew on Grapes, spray 0.2 to 0.4 % Bordeaux mixture @ 250 gm in 100 liter water at 10 days interval. For powdery mildew alternate spraying of Tridimefon @ 100 ml or water soluble Sulpher @ 200 gm in 100 liter may be done at 10 days interval.
- Continue field preparation and sowing of wheat and planting of sugarcane (Pre-seasonal).
- Select varieties like HI 977, HD 2501 and NIAW 34 for late sown wheat and CO-740, CO-7219, CO-86032, CO-M-88121 for sugarcane (Pre-seasonal).

Madhya Pradesh

Dry weather prevailed over the State.

Mainly dry weather is likely over the State.

Advisories

- There was no significant 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.
- Undertake intercultural operations like weeding in early sown *rabi* crops like gram and mustard etc. to keep the field weed free.
- Continue harvesting matured crop of tur.

Orissa

Weather was dry over the State during the period.

Mainly dry weather is likely over the State.

Advisories

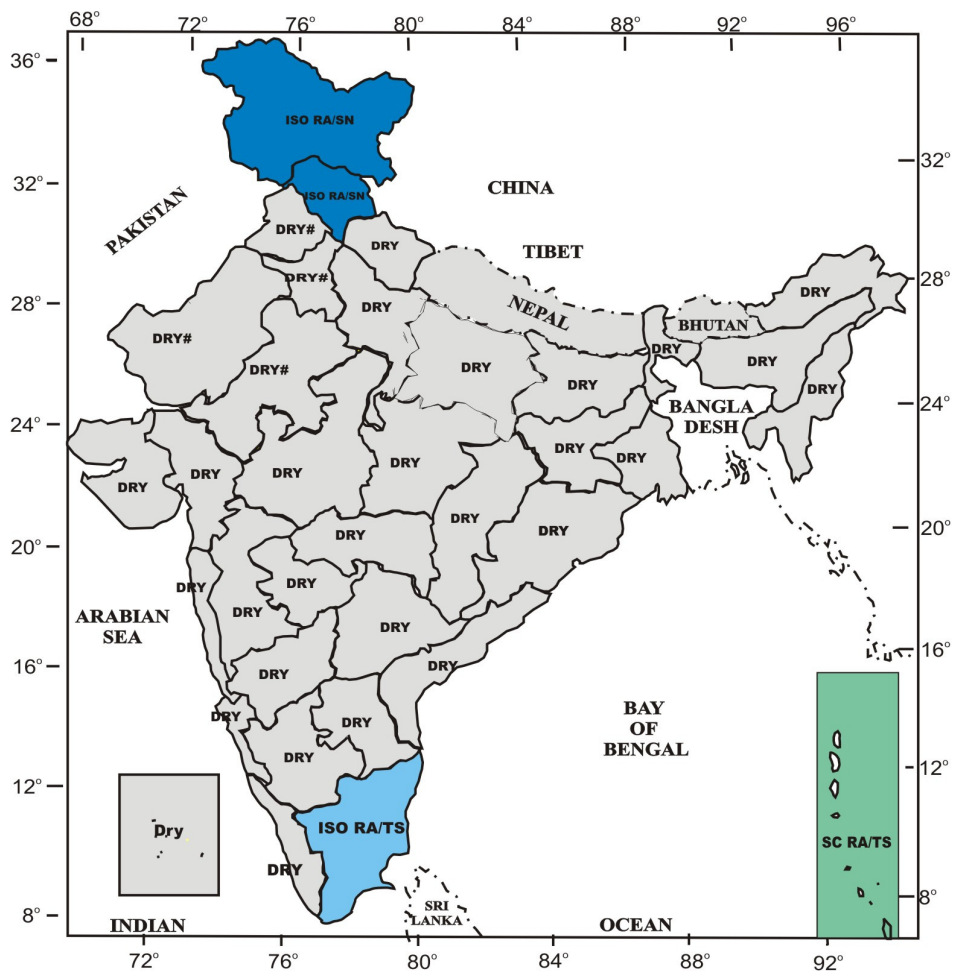
- There was no rainfall in all the districts during last week and mainly dry weather is likely over the State for

next 3 days. Under the circumstances, apply required irrigation to the standing crops to bring the soil moisture to field capacity.

- Also continue inter cultural operation, application of fertilizer and plant protection measures in early sown *rabi* crops.
- Weather conditions are favourable for the incidences of **saw fly** in **mustard**. Monitor the crop and spray Endosulfan @ 2 ml. / litre of water to control the pest if the damage crosses ETL.
- Continue harvesting of matured **rice**, **sugarcane** and **pulse** crops.

Forecast Map

Valid upto 10th December



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, # fog condition

Salient weather features for the week ending 06/12/06

METEOROLOGICAL ANALYSIS

- A western disturbance as an upper air system affected the Western Himalayan region and plains of north India from 4th onwards. An induced upper air cyclonic circulation developed over West Rajasthan on 4th and became less marked on 5th.
- A trough in mid tropospheric westerlies was also observed along Long. 62° E and north of Lat 20° N on 4th & 5th and along Long. 67° E on 6th.
- Weak easterly wave moved across south peninsular region.

RAINFALL

Under the influence of the above systems:

- Widespread rain/snowfall occurred over Jammu & Kashmir, Himachal Pradesh and Uttaranchal during 2nd half of the week. Isolated heavy snowfall also occurred over Jammu & Kashmir during the last two days of the week.
- Light rainfall occurred at a few places over Punjab, Haryana and West Rajasthan during last 3 days of the week. It was isolated over East Rajasthan, West Uttar Pradesh, East Madhya Pradesh and Chhattisgarh on one or two days of the week. South Madhya Maharashtra and south Konkan & Goa also received isolated rainfall on 30th November.
- Isolated rain/thundershowers also occurred over Tamil Nadu, Kerala, Lakshadweep and Andaman & Nicobar Islands on some days of the week.
- Weather was mainly dry over remaining parts of the country during the entire week.

MINIMUM TEMPERATURES

- Temperatures were below normal by 1-3°C over Indo-Gangetic plains & northeastern States on many days of the week and over Orissa during the 2nd half of the week.
- They were above normal by 3-6°C over Gujarat, Rajasthan, Maharashtra, central India and parts of south Peninsula.
- They were below normal by 1-3 °C over Kerala and Karnataka throughout the week.

RAINFALL DURING THE WEEK ENDING ON 6TH DECEMBER, 2006

Rainfall was excess/normal in 07 and deficient/scanty in 11 and no rain in 18 out of 36 meteorological sub-divisions (Actual: 6.0 mm, Normal: 3.8 mm and Departure: +56%).

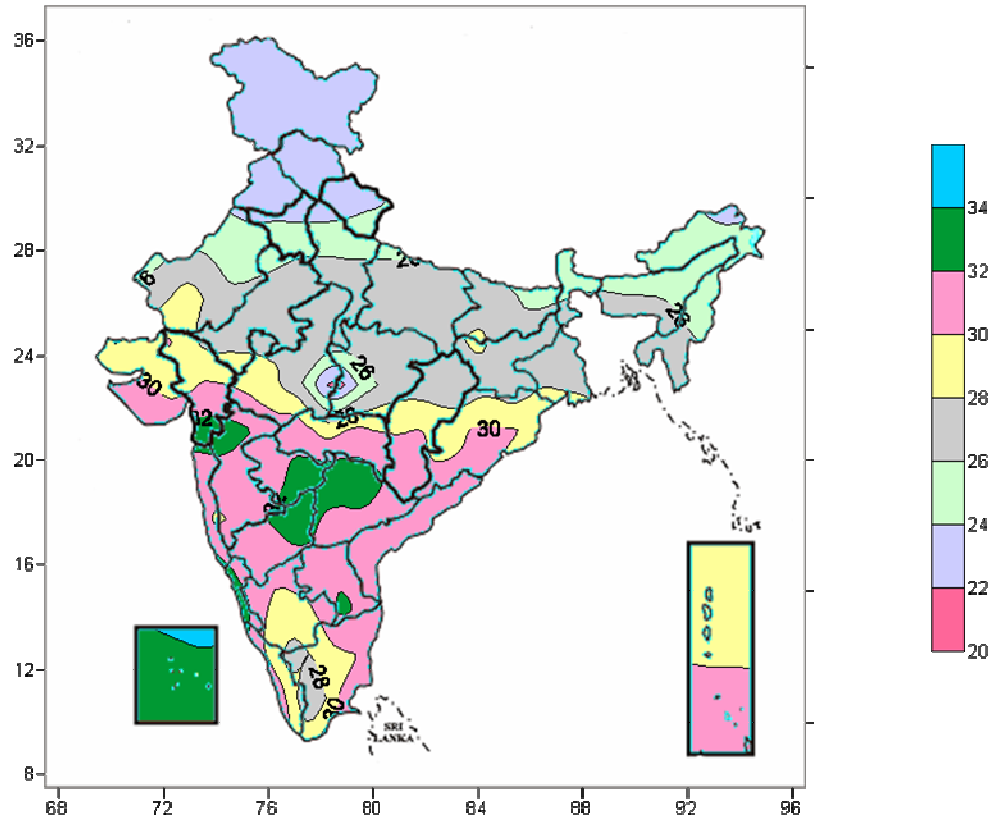
CUMULATIVE SEASONAL RAINFALL (1ST OCTOBER TO 6TH DECEMBER, 2006)

Rainfall was excess/normal in 12 and deficient/scanty in 24 out of 36 meteorological sub-divisions. (Actual: 111.2 mm, Normal: 93.7 mm and Departure: -16%).

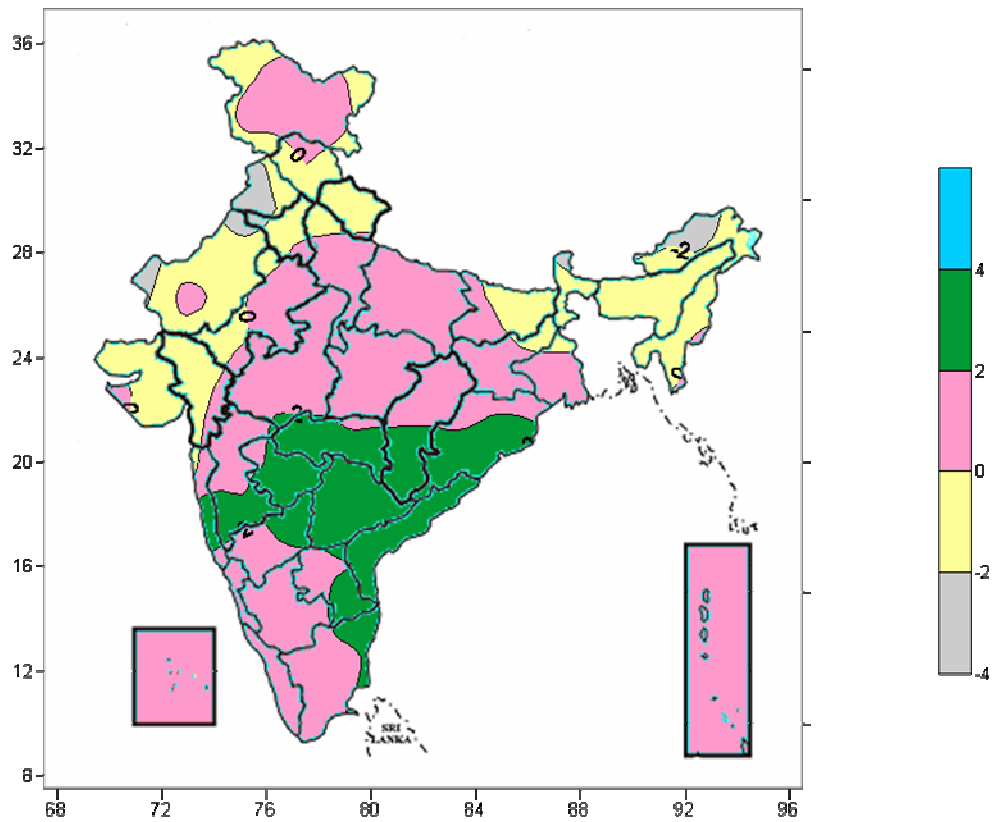
OUTLOOK FOR THE WEEK ENDING ON 13TH DECEMBER, 2006.

- Western Himalayan region and plains of northwest India likely to experience scattered precipitation during 10th & 11th due to an approaching western disturbance.
- Under the influence of an approaching easterly wave, scattered rainfall activity likely to commence over south peninsula from 10th onwards.
- Fall in night temperature and fog conditions likely over north India during beginning and end of the week.

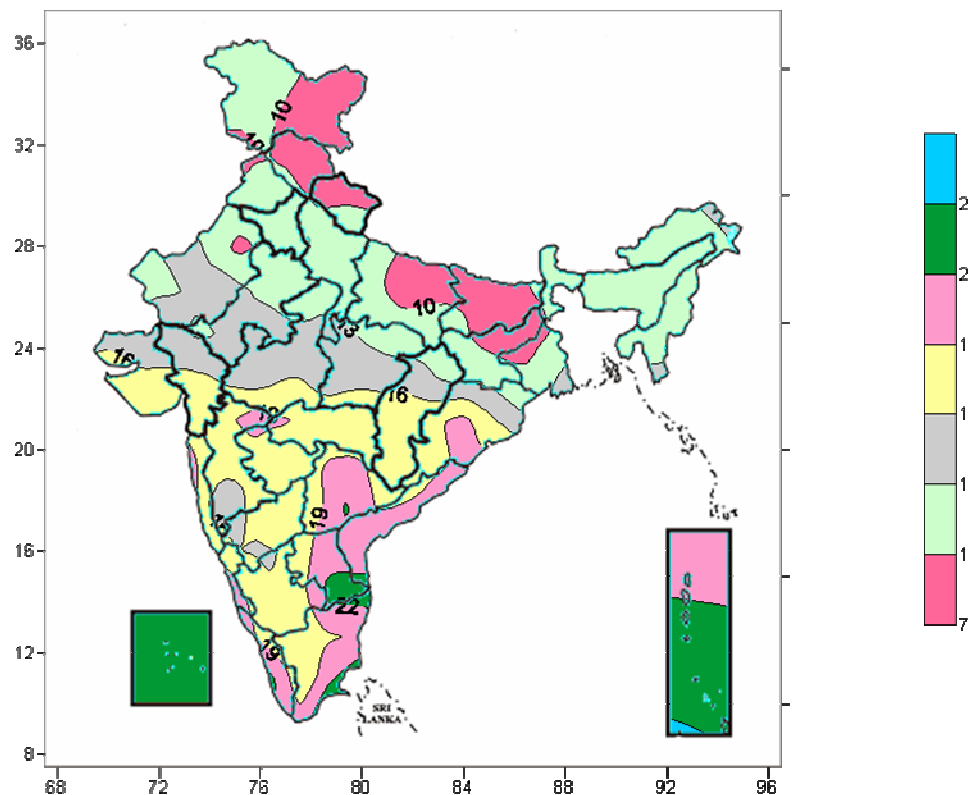
Actual mean maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 06.12.06



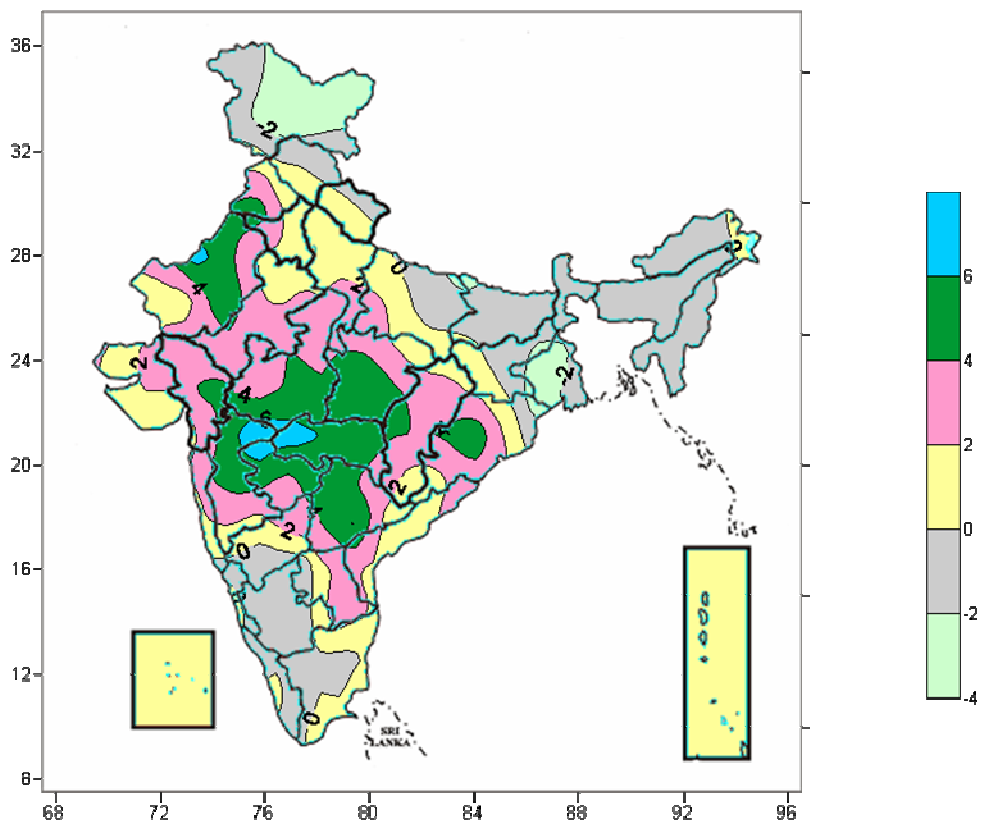
Maximum Temperature ($^{\circ}\text{C}$) Anomaly In India for the week ending 06.12.06



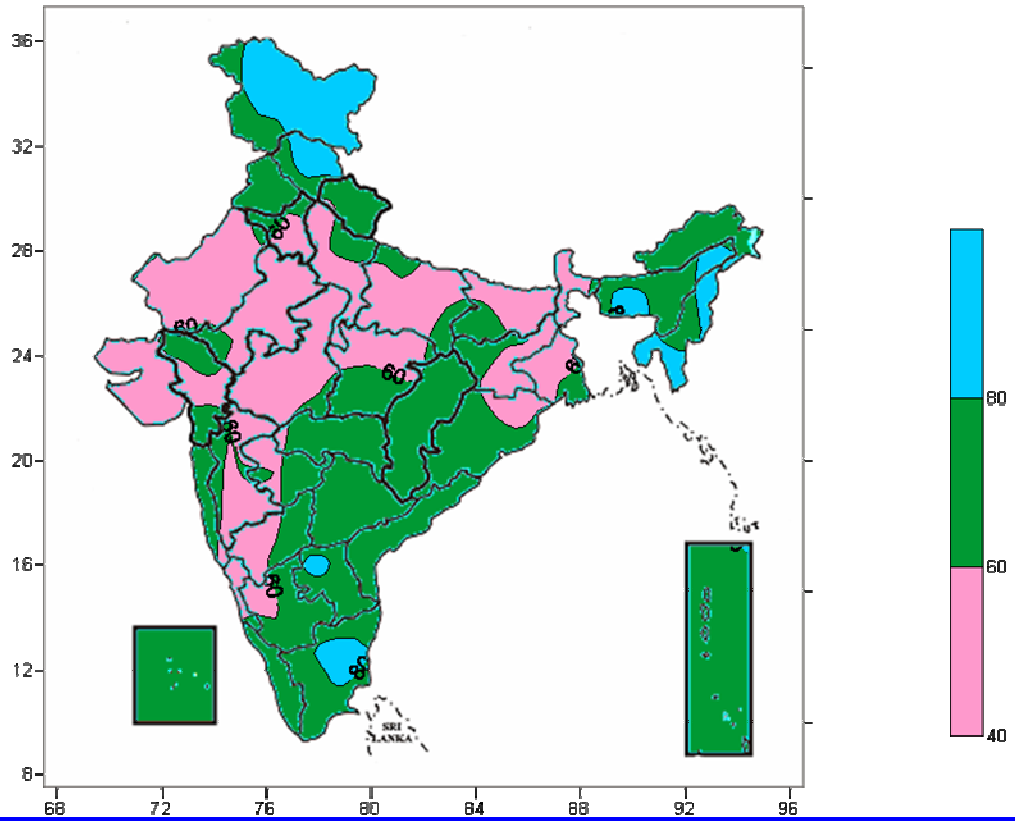
Actual mean Minimum Temperature (°C) in India for the week ending 06.12.06



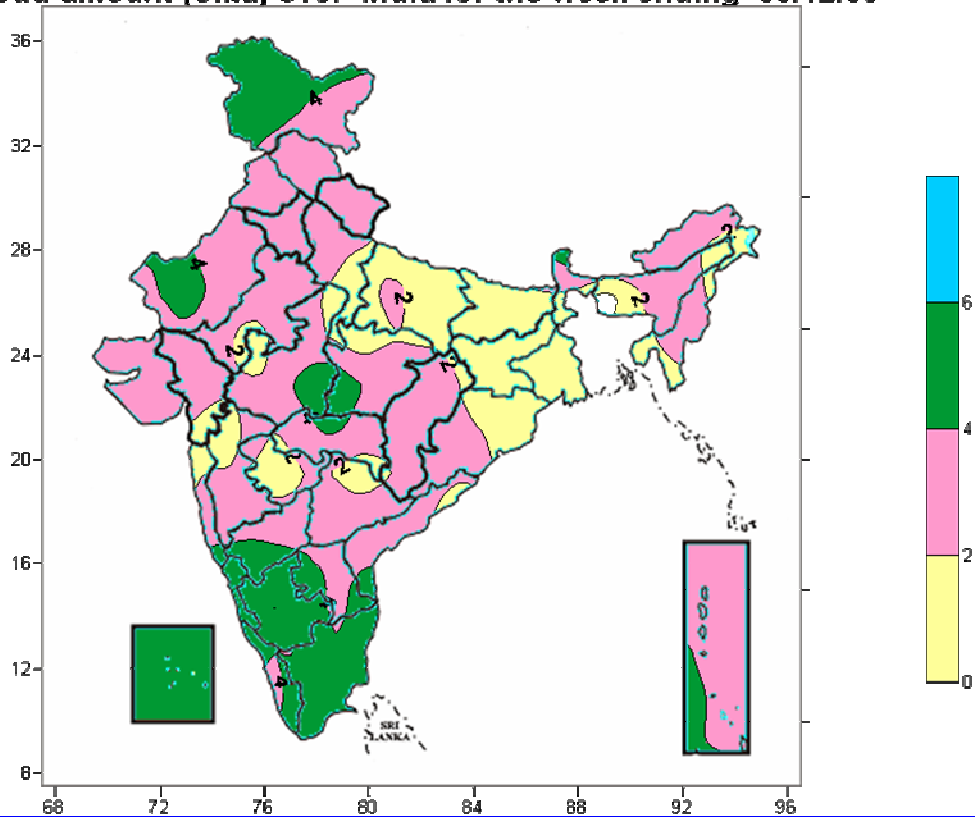
Minimum Temperature (°C) Anomaly in India for the week ending 06.12.06



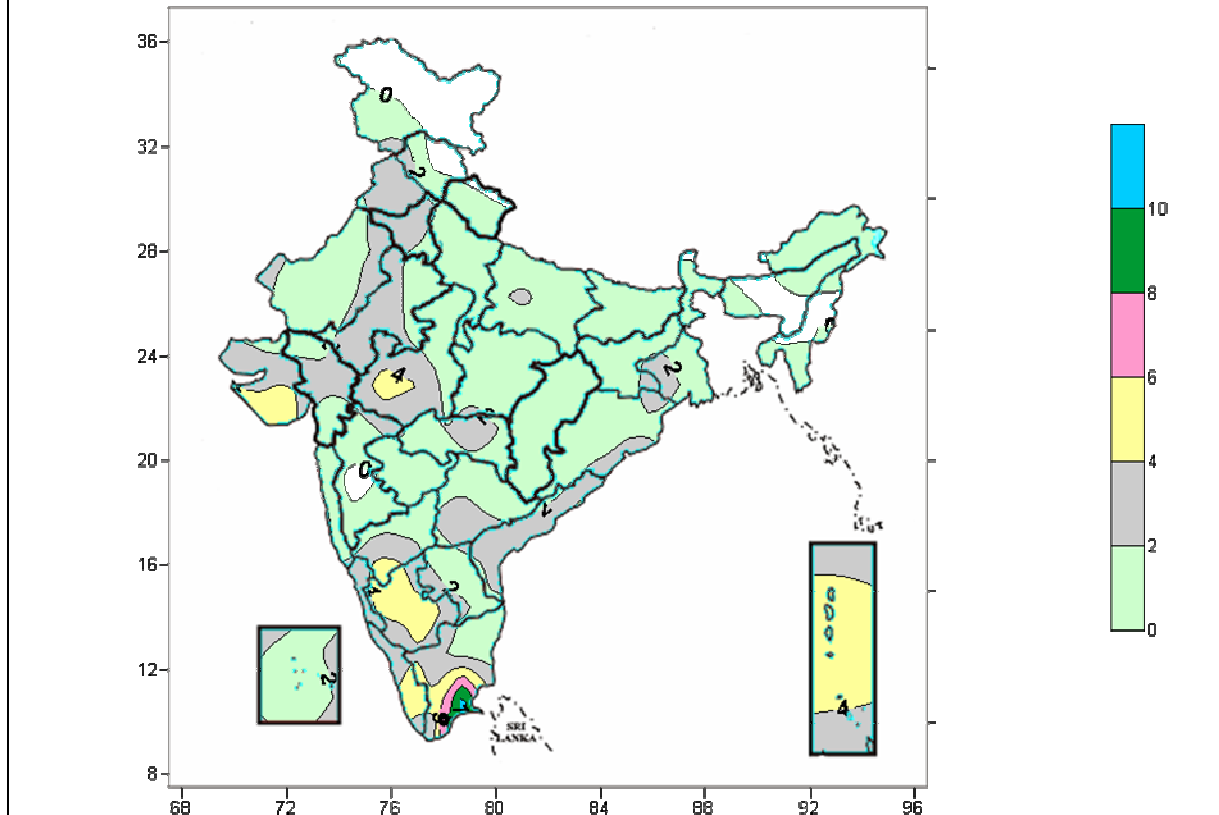
Relative humidity (%) over India for the week ending 06.12.06



Cloud amount (okta) over India for the week ending 06.12.06



Wind speed (knots) over India for the week ending 06.12.06



Desert Locust Forecasting



	Rainfall (mm)						
Station Name	30.11.06	1.12.06	2.12.06	3.12..06	4.12.06	5.12.06	6.12.06
Amritsar							
Barmer							
Sriganganagar							
Jaisalmer							
Kota							
Deesa							
Churu							

Temperature (degree celcius)							
Station Name	30.11.06	1.12.06	2.12.06	3.12..06	4.12.06	5.12.06	6.12.06
Amritsar	14.0	14.0	14.5	16.0	17.0	12.0	-
Barmer	-	19.5	19.5	19.0	21.0	19.0	-
Sriganganagar	17.0	17.0	16.5	-	19.5	15.5	-
Jaisalmer	20.0	18.5	20.0	20.0	19.0	15.0	-
Kota	21.0	19.5	19.5	20.5	22.0	23.0	-
Deesa	23.5	23.0	21.5	23.5	23.5	-	-
Churu	-	-	-	-	-	-	-

Wind														
Station Name	30.11.06		1.12.06		2.12.06		3.12..06		4.12.06		5.12.06		6.12.06	
	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.
Amritsar	07	NW	06	NW	-	-	-	-	-	-	-	-	-	-
Barmer	06	WNW	09	NE	-	-	-	-	12	SSW	14	SW	04	SE
Sriganga nagar	12	WSW	09	NW	-	-	-	-	-	-	-	-	-	-
Jaisalmer	03	SW	07	N	-	-	-	-	-	-	-	-	04	S
Kota	07	WNW	06	W	-	-	-	-	17	WSW	22	SSW	11	SW
Deesa	06	SW	04	N	-	-	-	-	17	SW	15	SW	-	-
Churu	07	NNW	06	W	-	-	-	-	-	-	-	-	09	SSE

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 / flowering	Sowing/ Transplanting	Vegetative/ flowering/ fruiting/ harvesting	Sowing	Sowing
Barley	Mustard		Early sown Wheat	Early sown Gram
Germination / early vegetative	Vegetative		Germination / crown root initiation	Germination / early vegetative

Haryana

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

Himachal Pradesh

Wheat	Gram	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley
Land preparation/sowing	Early vegetative/vegetative	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Land preparation/sowing
Early sown Wheat	Vegetables (Methi, Palak)	Early sown Barley	Vegetables Radish, Turnip, Carrot	
Germination/Early vegetative/Crown root initiation	Sowing	Germination/ Early vegetative	Sowing	

Jammu & Kashmir

Vegetable crops	Toria	Mustard	Gram/ Field Pea	Wheat
Early vegetative/vegetative	Vegetative	Vegetative/flowering	Vegetative	Sowing
Brown sarson	Early sown Wheat	Lentil	Pea	
Early vegetative	Seedling/early vegetative	Vegetative	Early vegetative	

Punjab

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

Rajasthan				
Cotton	Mustard	Wheat	Gram	Barley
End picking	Land preparation / sowing	Land preparation/sowing	Early vegetative/vegetative	Land preparation/sowing
Early sown Barley	Early sown Mustard	Cumin	Early sown Wheat	Early sown Cumin
Early vegetative/vegetative	Early vegetative/vegetative	Land preparation/sowing	Early vegetative/vegetative	Early vegetative/vegetative
Uttar Pradesh				
Wheat/Barley	Rabi pulses	Sugarcane	Early sown Wheat/Barley	Winter Vegetables
Sowing	Early vegetative	Cane maturity / harvesting	Seedling	Vegetative
Mango	Rabi Oilseeds(toria, rai and mustard)	Kharif Vegetables	Toria	
Active growth	Vegetative	Harvesting	Flowering	
Uttaranchal				
Pea	Mango/Litchi	Wheat	Sugarcane	Toria
Pod formation/maturity	Active growth	Germination/crown root initiation	Grand growth/Maturity	Pod formation
Potato				
Tuber growth				
Assam				
Early sown Vegetables	Sugarcane	Wheat	Vegetables	Balck gram and Green gram
Vegetative	Cane maturity / harvesting	Land preparation/sowing	Land preparation / sowing	Pod formation/ maturity
Sali rice	Arhar	Rape seed and Mustard	Early sown Pea, Lentil and Potato	Pea, Lentil and Potato
Harvesting	Maturity	Vegetative/flowering	Early vegetative	Land preparation/sowing
Early sown Wheat	Boro Rice			
early vegetative / crown root initiation stage	Preparation of rice nursery			
Arunachal Pradesh				
Mustard	Ginger	Potato	Wheat	Winter vegetables
Early vegetative	Vegetative	Early vegetative	Crown root initiation	Vegetative
Bihar				
Fruits and Vegetables	Winter vegetables	Wheat	Early sown Wheat	Rabi Maize
Vegetative	Sowing / transplanting	sowing	Germination to early vegetative	Vegetative
	Potato	Rabi Oil seeds (Toria, Sarson, Linseed)	Rabi Pulses (Lentil, Gram, Pea)	
	Early vegetative / Vegetative	Early vegetative	Vegetative	
Jharkhand				
Rice	Rabi Maize	Wheat	Potato	
Harvesting	Seedling/early vegetative	Field preparation, sowing	Field preparation /sowing	
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)	Early planted vegetables	Rabi pulses and oilseeds	Rabi pulses and oilseeds Arhar/Mustard	
Transplanting, (Sowing- Onion, Pea, Potato)	Early vegetative / vegetative	Field preparation /sowing	Early vegetative	
Sikkim				
Orange	Mustard	Rabi vegetables	Early sown Wheat	Wheat
Harvesting	Early vegetative/vegetative	Early vegetative/vegetative	Early vegetative/vegetative	Sowing
West Bengal				
Boro rice	Sugarcane	Wheat	Aman rice	Rape seed and Mustard
Field preparation / nursery sowing	Cane development	Germination / early vegetative / crown root initiation	Harvesting	Early vegetative / Vegetative
Gram/ Lentil	Potato	Early sowing Potato		
Early vegetative / Vegetative	Field preparation and planting	Sprouting / early vegetative / vegetative		

Chattisgarh				
Gram	Vegetables (Tomato, chilli, brinjal)	Sugarcane	Kharif rice	Linseed, Safflower, Mustard, Toria
Field preparation/sowing	Vegetative	Cane development	Harvesting	Field preparation/sowing
Early Sown Gram	Early Sown Linseed, Safflower, Mustard, Toria	Potato	Onion	New crops Sugarcane
Early vegetative	Early vegetative	Field preparation/Planting	Field preparation and nursery sowing	Planting
Early sown Potato	Wheat	Early sown Wheat		
Early vegetative/vegetative	Land preparation and Sowing	Germination/early vegetative/Crown root initiation		

Gujarat				
Mustard	Wheat	Pre-monsoon irrigated Cotton	Castor	Sugarcane
Vegetative	Land preparation/sowing	Boll formation / picking	Flowering/ Pod formation	Cane development/early maturity
Kharif Cotton	Early Sown Wheat	Summer Rice		
Square / boll formation	Germination / early vegetative	Preparation of rice nursery		

Maharashtra				
Rabi 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)
Early vegetative / vegetative	Pod formation/pod maturity/harvesting	Boll formation /boll maturity/picking	cane maturity/harvesting	early vegetative/vegetative
Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif rice (Konkan)	Kharif rice (Madhya Maharashtra, Marathwada & Vidarbha)
Field preparation/planting	Boll formation/ boll maturity/picking	Sprouting/Early vegetative/early tuberization	(late varieties) Harvesting	Grain maturity/harvesting
Gram (Madhya Maharashtra, Marathwada & Vidarbha)	Wheat (Madhya Maharashtra, Marathwada & Vidarbha)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)	Early sown Gram (Madhya Maharashtra, Marathwada & Vidarbha)	Early sown Wheat (Madhya Maharashtra, Marathwada & Vidarbha)
Germination / early vegetative/branching	Field preparation / sowing/	Early vegetative/vegetative	Germination	Germination/seedling/ crown root initiation/tillering
Safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Maize (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Early sown Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	
early vegetative/vegetative	Germination / early vegetative	Field preparation/planting	Sprouting/early vegetative	

Madhya Pradesh				
Wheat & gram	Mustard	Kharif crops(Tur/)	Masoor	Linseed
Seedling/early vegetative	Seedling/early vegetative/vegetative	End harvesting	Seedling/early vegetative/vegetative	Seedling/early vegetative/vegetative
Irrigated Wheat	Gram			
Germination	Seedling/early vegetative/vegetative			

Orissa				
Vegetables	Kharif Rice	Mustard	Pulses	Early sown pulses
Flowering / fruiting / harvesting	Maturity/harvesting	Vegetative	Vegetative (Biri / Mung / Kulthi)	Pod maturity
Sugarcane	Rabi Groundnut			
Grand growth / maturity	Vegetative			
Andhra Pradesh				
Kharif rice	Kharif crops Tur	Groundnut	Cotton	Rabi Maize
Grain harvesting	Tur-Pod harvesting,	End harvesting	Boll picking	Vegetative
Rabi Groundnut	Gram			
Vegetative	Vegetative			
Karnataka				
Groundnut	Sugarcane (Ratoon crop & new crop)	<i>Early sown Rabi jowar, wheat and maize</i>	Kharif rice	Kharif cotton
End harvesting	End Harvesting	seedling/early vegetative/vegetative	End Harvesting	Picking
Kerala				
Rubber	Mundakan rice	Pepper		
Tapping	Grain formation	Harvesting		
Tamil Nadu				
Early sown Pulses (Black gram and green gram)	Millets	Cotton	Early & mid sugarcane	Early sown oilseeds
Vegetative	Sowing	Sowing	Maturity	Early vegetative/vegetative
Early sown Millets	Rice (<i>Samba</i>)	Pulses (Blach gram and Green gram)	Oilseeds (Groundnut, Sunflower)	Early sown Cotton
Vegetative	Nursery/transplanting	Sowing	Sowing	Early vegetative/vegetative
