



Summary of Agromet Advisory Services for different States of the country

Issued by

Agricultural Meteorology Division, India Meteorological
Department, Pune, India

Thursday, 5th June, 2008

(For the period 5th June to 9th June, 2008)

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

Agromet Advisory

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

Punjab

- Isolated rain/thundershowers are likely over the State.

Advisories

- As there was no significant rainfall during last week and rain/thundershowers are likely at isolated places over the State, apply irrigation to the standing crops.
- Monitor the sugarcane crop for thrips and *Pyrilla* & if exceeds economic threshold level, spray Endosulfan 50 EC @ 350 m 600 in liter of water/acre.
- Continue sowing of radish.
- Continue land preparation and sowing rice in the nursery and cotton in the main field in and around Ludhiana.
- Iron deficiency is noticed in sugarcane in and around Ludhiana. Spray 1% Ferrous sulphate solution.

Haryana

- Rain/thundershowers are likely at isolated places over the State

Advisories

- As there was no significant rainfall during last week except in Sirsa district and rain/thundershowers are likely at isolated places over the State, apply irrigation to sugarcane, oilseeds, pulses and horticultural crops. Postpone irrigation in the Sirsa district as there was excess rainfall during last week.
- Monitor the sugarcane crop for thrips and *pyrilla* & if exceeds economic threshold level, spray 350 ml Endosulfan 50 EC in 600 liter of water/acre.
- Undertake sowing of radish.
- Farmers are advised to prepare the fields for cotton sowing and to start the sowing of desi cotton with varieties HD-107, HD-123, HD-324 and AAH-1 and american cotton with varieties HS- 6 and H- 117 with certified seeds. Treat the seeds before sowing.

Rajasthan

- Isolated rain/thundershowers are likely over the state.

Advisories

- As there was no significant rainfall during last week and rain/ thundershowers are likely at isolated places over Rajasthan during next three days, apply irrigation to vegetable crops.
- Continue land preparation and sowing of groundnut in and around Jaipur, Ajmer, Dausa and Tonk. Apply 250 kg per hectare gypsum at the time of last ploughing and 15 kg nitrogen and 60 kg phosphate at the time of last sowing. Apply 30 kg potash per hectare in potash deficient areas.
- Start land preparation and planting nursery of kharif onion in and around Jaipur, Ajmer, Dausa and Tonk. N-53 and Agrifound dark red are the improved varieties of kharif onion.
- Bark eating caterpillar may attack Mango, Ber and Aonla. This insect eats bark of these trees & makes tunnels in them. To control the insect spray Endosulfan @ 1.5 ml per litre of water.
- Complete land preparation and sowing of cotton in and around Jaipur, Ajmer, Dausa and Tonk. Select among RG-8 (170-180 days, Desi), Bikaneri Nerma (190-200 days, American) and RST-9 (190-200 days, American).
- Undertake ploughing in and around Alwar, Dholpur, Bharatpur, Karauli and Sawai Madhopur to conserve summer rains and to kill insect pupae and pathogens.
- Monitor bhendi for mosaic. To control, spray Malathion @ 1 ml per litre water to control the vector (white fly).

Uttar Pradesh

- Isolated rain/thundershowers are likely over West U.P and rain/thundershowers accompanied with squall are likely at a few places over East Uttar Pradesh.

Advisories

- As there was no significant rain during last week in the State and isolated rain/thundershowers are likely over West U.P for next three days, apply irrigation to vegetable, sugarcane, summer pulses and sunflower crops.
- As rain/thundershowers are likely at a few places over East U.P for the next three days and increase in rainfall afterwards, postpone irrigation to the crops in East U.P.
- Harvest the matured vegetables. To control wet rotten disease in onion spray the solution of Carbendazim 0.1%.
- To control internal rotten disease in mango, spray the solution of 5-6 gm Borax/litre of water. Cut the mango hopper affected branch 30-45 cm in length. To prevent mango fruits from falling, spray the solution of Napthalene Acetic Acid @ 15 p.p.m or 4 ml planofix/9 litre of water.
- Weeding, hoeing, intercultural operations and application of fertilizers may be done in summer pulse, sugarcane and sunflower crops on a non-rainy day in East U.P.

Himachal Pradesh

- Rain/thunder showers are likely at a few places over the State

Advisories

- As there was no significant rainfall in the State during last week and rain / thundershowers is likely at a few places over the State for next three days, apply irrigation to vegetables, onion and potato.
- Prepare land and transplant summer vegetables like tomato, brinjal, capsicum and chillies and sow ageti bhindi (var. Prabhini kranti, Arka anamika), cucumber, bitter gourd in the field. Complete sowing of bhindi in the mid hill valley at the earliest.

- To have crop of raddish in summer sow Pusa Chetakin or early minowwhite varieties.
- It is time for sowing of nursery in areas where summer vegetables like brinjal, Shimla mirch, pepper and tomato are taken as rainfed crop during rainy season. The nursery will be ready by 15th June and can be successfully transplanted during second fortnight of June before onset of monsoon. Before sowing of nursery treat soil with 2%folidol dust mixed with 1 kg sand and mix in one kanal area.
- Continue land preparation and nursery sowing of rice. The nursery should be sown four weeks before the time of transplanting. Tall and dwarf varieties should be sown between 24th May to 8th June and Basmati varieties should be sown between 24th May to 4th June.
- Red pumpkin beetle and fruit fly may appear in the already transplanted cucurbitaceous crops. If noticed, spray malathion / endosulphon @ 0.15 percent at 10 days interval to control the insect.

Uttarakhand

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

Advisories

- As rain/thundershowers is likely at a few places over the State for the next three days, apply irrigation to sugarcane, vegetable crops and orchard trees.
- Undertake intercultural operations in orchards and sugarcane on a non rainy day to keep the field weed free.
- Continue picking mango and litchi depending upon market demand.
- Monitor mango trees for powdery mildew and litchi for mite incidences. Undertake need based plant protection measures on a non rainy day.
- Continue land preparation and sowing of rice in the nursery in and around Roorkey.

Jammu & Kashmir

- Rain/thundershowers are likely at isolated places over the State.

Advisories

- As rain/thundershowers is likely only at isolated places only over Jammu & Kashmir during next three days, apply irrigation to the standing crops.
- Preparation of seed beds for early raising of vegetable seedlings such as capsicum, chilies, brinjal, paprika etc. and filling of polybags for sowing of cucurbits under polyhouse conditions may be continued in Kashmir division. Also undertake sowing of spinach, methi and coriander and planting of garlic in Kashmir division.
- Continue sowing of maize and moong in the main field. Also start transplanting of rice in the main field in Kashmir division.
- Undertake top dressing of nitrogen in cauliflower, knoll-khol, potato, spinach, methi and garlic @ 60, 50, 20, 20, 20 and 20 kg/ha in Jammu division.
- Rouge out virus effected plants from brinjal, tomato, cauliflower and cabbage crop in Jammu division.
- Undertake summer ploughing in order to destroy the weed seeds, pathogens, and insect eggs in Jammu division.

- Undertake sowing of maize (var GS-2, Mansard, Trikuta, C-5 and C-8) in Jammu with seed rate 20-30 kg/ha in irrigated areas in Jammu division during these days, before sowing treat the seed with thiram @ 0.3% or carbedazim @ 0.2%.

Delhi

- Isolated rain/thundershowers are likely over the state.

Advisories

- As there was no significant rain during last week and no significant rainfall is likely for the next three days, apply irrigation to vegetables crops.
- Monitor vegetables crops for sucking pests. If noticed, spray Endosulphan 35% E.C. or Melathian 50% E.C. @ to 2ml per litter of water.
- Prepare land and undertake sowing of arhar utilizing recent rain. Select varieties from UPAS-120 and Manak.
- Prepare land and undertake nursery sowing of rice. Select varieties from PR-109, Jaya and HKR-120.
- Protect the cauliflower nursery from scorching effect by applying light and frequent irrigations.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

- Rain/thundershowers are likely at many places the state

Advisories

- Postpone irrigation to plantation crops viz., coconut, arecanut, rubber and banana in the state as rain/ thundershowers are likely at many places for the next three days. Plant protection measures and intercultural operations may be undertaken after spells of rain.
- Attack of foot rot is reported in pepper nursery. Spray Bordeaux mixture @ 1% after spells of rain to control the disease.
- Attack of bud rot, Eriophoid mite and rhinoceros beetle is reported in coconut. To control bud rot, apply 1% Bordeaux mixture after spells of rain. As a prophylactic measure to prevent Eriophyid mite attack, spray 2% neem oil + garlic emulsion in the crown and bunches (2nd to 7th) on a non rainy day avoiding unpollinated inflorescence. Fill the leaf axils with 25 gm. Sevidol 8 G and fine sand 200 gm after spells of rain to control rhinoceros beetle.
- Attack of mahali disease is reported in arecanut. Apply 1% Bordeaux mixture after spells of rain to control the disease.
- Continue land preparation and nursery preparation of pepper. Complete land preparation and nursery preparation of *virippu* rice
- Planting of coconut seedlings can be done in south zone. Planting may be done in the pits of dimension 1m x 1m x 1m at spacing of 7.6 x 7.6 m (approximately 70 palms per acre). Select quality seedlings with at least 10 – 12cm collar girth and 6 - 8 leaves. Also undertake intercropping in grown up coconut garden. Pineapple, banana, tapioca and black pepper are ideal for planting as intercrops in coconut.

Tamilnadu

- Isolated rain/ thunder showers are likely over the state.

Advisories

- Apply irrigation to groundnut, sugarcane and pulse crops as there was no significant rainfall during last week and rain/ thundershowers likely at isolated places over State.
- Monitor sugarcane for shoot borer and if the pest population crosses ETL, undertake spraying of Endosulfan 35 EC or Monocrotophos 40 EC @ 1.5 litres/ha. Release parasite @ 1 cc per time for stem borers after 15 days of spraying. Release parasite @ 1 cc per time for the control of stem borers.
- Continue land preparation and nursery sowing of *sornavari* rice. Treat the Seeds first with *Pseudomonas florescence* @ 10g/ kg of seed then with *Azospyrillum* @ 600gms + Phosphobacteria @ 600gms/Ha of seed before 30minutes on the day of sowing.
- Magnesium deficiency is noticed in cotton in and around Kovilpatty. For alleviating this symptom spraying 5 % magnesium sulphate, 1 % urea and 0.1 % zinc sulphate on 80 days after sowing is recommended. For preventing boll shedding in cotton spraying Napthalene Acetic Acid (NAA) 40 ppm on 60 and 90 days after sowing is recommended. Nipping the terminal bud between 75 to 80 days after sowing is recommended for preventing the vegetative growth in cotton.
- Prevailing dry climate may induce viral diseases in *summer irrigated* vegetables. The vectors like sucking pests may spread rapidly in this dry climate. Hence spraying of Dimethoate @ 500 ml/ha is recommended for controlling these vectors.
- Start harvesting matured pulse and early and mid season sugarcane crops.
- In summer irrigated gingelly flower webber damage is observed. To control the pest, spray Endosulfan @ 1 litre/ha in and around Kovilpatty.

Karnataka

- Rainfall occurred at many places on 2nd and at few places on 3rd & 4th over South Interior Karnataka; Rainfall occur at many places on 2nd, at few places on 3rd and at isolated places on 4th over Coastal Karnataka; Rainfall occurred at few places on 2nd & 4th and at isolated places on 3rd over North Interior Karnataka.
- Rain/thundershowers are likely at many places over Coastal Karnataka. Isolated rain/ thundershowers are likely over the rest of the state.

Advisories

- Postpone irrigation in coastal Karnataka as rain/thundershowers are likely at many places for the next three days. As there was no sufficient rainfall during last week and rain/thunder showers are likely at isolated places over rest of the State for the next three days, apply irrigation to sugarcane.
- Undertake intercultural operations and propping in sugarcane to prevent the crop from lodging. Monitor the crop for white woolly aphids and release predators like *Dipha* sp, adopt wider spacing, inter-cropping with soyabean and pulses of short duration as plant protection measures against woolly aphids. Plant protection measures and intercultural operations may be undertaken after spells of rain in Coastal Karnataka.
- Continue harvesting matured crops of rice and sunflower on bright sunny days.
- Start land preparation and sowing of *kharif* crops like green gram, black gram, jowar and sunflower as southwest monsoon is advanced over Coastal Karnataka and South Interior Karnataka and southern parts of North Interior Karnataka. Undertake ploughing and arrange

for inputs for sowing as monsoon is fast approaching in northern parts of North Interior Karnataka.

Andhra Pradesh

- Isolated rain/thundershowers are likely over the state.

Advisories

- As there was no significant rainfall in the state during last week and isolated rain/thundershowers are likely to occur for the next three days, apply irrigation to sugarcane and chillies.
- Weather conditions are congenial for the attack of thrips and mite in chillies. To control thrips spray Fipronil @ 2.0 ml per litre of water. To control mite, spray Dicofol @ 3 ml per litre of water.
- The incidence of rd mite and early shoot borer is noticed on sugarcane. To control red mite spray Dicofol @ 3 ml per litre of water. To control early shoot borer, spray Endosulfon @ 2ml per litre of water.
- Start land preparation and sowing of *kharif* crops as southwest monsoon is advanced over Rayalaseema and Coastal Andhra Pradesh. Undertake ploughing and arrange for inputs for sowing as monsoon is fast approaching in Telangana.

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

Assam

- Moderate to rather heavy rain occurred at many places on 2nd, light to moderate rain occurred at many places on 4th and at isolated places on 3rd with isolated rather heavy to heavy falls on 2nd & 4th and with isolated rather heavy falls 3rd over the state.
- Rain/thundershowers are likely at a many places over the State.

Advisories

- As rain / thundershowers are likely at many places over the State with isolated heavy rainfall for next three days, postpone irrigation and intercultural operation to the crops. Provide adequate drainage facilities to avoid waterlogging.
- Maintain 3 – 5 cm of water in early *ahu* rice and regular *ahu* rice field.
- Prepare land undertake transplanting of transplanted regular *ahu* rice. 7 –10 days before uprooting of the *ahu* rice seedlings from the nursery, apply Carbofuran @ 3 g / sq. m. area in the seedbed to protect the seedlings from stem borer, gall midge, leaf folder etc. in the main field. Alternatively root-dip treatment may also be done. For this the uprooted seedlings are to be washed and root portion of the seedling is dipped in 0.02% solution of Chloropyrophos (1 ml in 1 litre of water) along with 1% of urea for three hours.
- As maize crop is very susceptible to water logging, provision of surface drainage should be made in the field.
- Provide mechanical support to the sugarcane crops to prevent lodging.
- Infestation of pest and disease such as fruit fly insect and powdery mildew disease is reported in summer vegetables in some localities.

- For control of fruit fly in summer vegetables, malathion 50 EC @ 2.5 ml per litre of water should be applied. Also for control of disease such as powdery mildew apply bavistin @ 2.5 ml / litre of water or Dithane Z-78 or Captaf @ 2 g / litre of water.
- There is mild chance of attack of hairy caterpillars, semi-lopper and stem weevil in jute. To control these pests, Fenitrothion 50 EC @ 1ml per litre of water or Endosulfan 35 EC @2ml per litre of water should be sprayed.
- There is mild chance of attack of stem borer in maize due to favourable weather condition. If the pest population crosses economic threshold level, spray fenitrothion 50 EC @ 2 ml / litre of water.
- Application of fertilizers, pesticides and intercultural operations after current spells of rain.
- This is the time for land preparation and sowing of arhar. Prepare land by 3-4 ploughing. Sow seeds of variety T-21 @ 2 Kg seeds per bigha (15 kg per hectare) maintaining the spacing of 75 cm between rows and 30 cm between plants. Fertilizer @ 5 kg urea, 35 kg SSP per bigha is to be applied. Preparation of land and application of fertilizer may be undertaken after current spells of rain.

Arunachal Pradesh

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

Advisories

- As there was no significant rainfall during last week in the State and rain / thundershowers are likely at a few places over the state for next three days, apply irrigation to the standing crops.
- Undertake intercultural operations, application of fertilizers and pesticides in ginger, *summer* vegetable crops, *jhum* rice and millets on a non rainy day.
- Prepare land preparation and continue transplanting of wet seeded rice. Maintain spacing of 20 cm X 10 cm.

Bihar

- Rain/thundershowers accompanied with squall are likely at a few places over the state.

Advisories

- As rain/thundershowers accompanied with squall are likely at a **few places** over the State for next three days, and increase in rainfall activity thereafter, postpone irrigation to the crops.
- There is mild chance of attack of red spider mite in vegetables. If attack crosses economic threshold level, for controlling the red spider mite spray the crop with sulfex @ 3kg/ha or share @ 3 kg/ha in 700 litre of water.
- There is mild chance of attack of mealy bug and anthracnose in fruits. If attack crosses economic threshold level, spray the crop with Endosulfan @ 1.5 ml + Chlorthalonil @ 2g + Planofix @ 1 ml per litre of water.
- Monitor the sugarcane crop for shoot borer incidence. If attack crosses economic threshold level, apply pesticides.
- Start harvesting matured crops of maize, rice and moong on bright sunny days.

Jharkhand

- **Isolated** rain/thundershowers are likely over the State.

Advisories

- As there was no significant rain during last week in the State and **isolated** rain/thundershowers are likely over the State for the next three days, apply irrigation to vegetable, summer moong and til.
- Undertake harvesting of matured summer rice, moong and til
- In case of attack of gundhibug in summer rice, spray Endosulphan with 4% dust or 10 Kg. Indolphos with 1.5% dust per acre.
- Land preparation for sowing of arhar and maize may be undertaken by utilising the pre-monsoon rain/thundershowers.

Sikkim

- Rain/ thundershowers at many places accompanied with squall are likely over the state.

Advisories

- As rain/thundershower likely at many places accompanied with squall over the state for the next three days, postpone irrigation to orange, large cardamom, early sown maize and vegetable crops.
- Apply FYM/Compost @ 5 kg around trees 1-4 years, @ 25 kg around trees 5-10 years old and @ 50 kg around trees of 11-25/40 years old after spells of rain.
- Continue harvesting matured crops of large cardamom and maize on bright sunny days.
- Continue land preparation and sowing of pre-treated, healthy & certified seeds of vegetables in appropriate and well prepared nursery beds in the vegetable garden.

West Bengal

- Rain/thundershowers at many places accompanied with isolated squall are likely over West Bengal.

Advisories

- As rain / thundershowers are likely at many places with thundersquall over State, postpone irrigation to the crops.
- Apply 6.5 kg urea per bigha as top dressing for second time in jute.
- Prepare land for *aus* rice. HYVs are IET-826, CR-126-42-1, IR-36, IET-2233, IET-1444 (Rosi), Culture-1 etc. Treat the seeds with Crabendazim 50 % @ 1 gm / kg of seeds. Seed rate is 75-100 kg / ha in case of broadcasting and 62-75 kg / ha in case of row sowing. Plough the field 3-4 times & apply 20-25 cart compost before final ploughing. 25 kg Potash per hectare may be given.
- Infestation of pod borer is reported in sesame in some places. Apply endosulfan @ 2 ml per litre of water to control pod borer.
- Infestation of fruit and shoot borer in brinjal is reported in some places. Apply Triazophos 40 EC @ 1.5 ml, Spinosad 45 EC @ 0.2 ml or Cartap Hydrochloride @ 0.75 g per litre of water alternatively.
- Infestation of white fly in bhindi is reported in some places. To control white fly apply Confidor @ 0.25 ml per litre of water.

- In pumpkin, ridge-gourd, pointed gourd and cucumber, there is a chance of attack of Red-Pumpkin Beetle in the weather condition in and around Kalyani. To control the pest apply Dimecron or rogor @ 1ml per litre of water.
- Application of fertilizes, pesticides and intercultural operations may be continued after current spells of rain.

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

Gujarat

- Isolated rain/thundershowers are likely over south Gujarat during next 48 hours and increase thereafter and isolated rain/thundershowers are likely over the rest region.

Advisories

- As there was no rain during last week in most of the districts and isolated rain/thundershowers are likely over south Gujarat during next 48 hours and increase thereafter and isolated rain/thundershowers are likely over the rest region, apply irrigation to sugarcane, summer groundnut, summer bajra and other field and horticultural crops.
- Drain out water from the rice field 10 – 15 days before harvesting. Continue harvesting of already matured crops on bright sunny days.
- Arrange for harvesting matured crops of *summer* groundnut and bajra.
- Apply 75 kg Nitrogen / ha as top dressing to sugarcane. Carry out light earthing up at 90 days after planting.
- In ber pruning should be completed at the earliest.
- For the control of citrus canker in lemon, copper oxy chloride @ 40 gm or streptocycline @ 5 in 10 litres of water should be sprayed at an interval 15 days.
- Undertake summer ploughing after the harvest of crops. Also arrange for seeds and inputs for sowing of *kharif* crops.

Chhattisgarh

- Isolated rain/thundershowers are likely over the state.

Advisories

- As there was no significant rainfall during last week and rain / thundershower is likely at isolated places only over the State for next three days, apply irrigation to sugarcane, vegetables, sunflower, groundnut, sesame and green gram.
- Maintain 5 cm water in summer rice field.
- Top dressing of sugarcane and maize with Nitrogen may be done at knee high stage.
- Prepare nursery for chilli, tomato and brinjal in shadow.
- There is mild chance of attack of stem borer in summer rice in Baster Plateau zone. If attack crosses economic threshold level, apply Carbofuran 3G @ 33 kg / ha or Phoret 10G @ 8 to 10 kg / ha.
- Summer ploughing is advised wherever sufficient rains / moisture is available in the fields. It will help in effective pest / weed management for the coming *Kharif* crops due to soil solarization.

Maharashtra

- Rain/thundershowers are likely at **many places** over Konkan. **Isolated** rain/thundershowers are likely over south Madhya Maharashtra during next 48 hours and increase thereafter. Isolated rain/thundershowers are likely over the rest region.

Advisories

- As there was no significant rain during last few weeks and rain/thundershowers are likely at isolated rain/thundershowers are likely over south Madhya Maharashtra during next 48 hours and increase thereafter and isolated rain/thundershowers are likely over the rest region, apply irrigation to sugarcane (pre-seasonal), and sugarcane (*suru*). Postpone irrigation in Konkan as rain/thundershowers are likely at many places over Konkan.
- Maintain 3 – 5 cm standing water in summer rice field.
- 5-6 ton trash may be applied in the field of sugarcane (pre-seasonal) and sugarcane (*suru*) to control evaporation.
- Harvest mango fruits at 80% ripening stage & at morning upto 10 am and after 4 pm & keep fruits in shadow.

Madhya Pradesh

- Rainfall occurred at isolated places over North West M.P. on all days, South East M.P. on 2nd and 4th. Mainly dry/ dry weather prevailed over rest of the state on remaining period.
- Isolated rain/thundershowers are likely over the state.

Advisories

- As there was no significant rain during last week in the State except in Neemuch district and rain/ thundershower is likely at isolated places over the state for the next three days, apply irrigation to *summer* sugarcane. Postpone irrigation in the above district as there was excess rainfall during last week.
- Undertake intercultural operation in sugarcane to keep the field weed free.
- Continue harvesting *summer* moong and urd crops in and around Jabalpur.
- Undertake intercultural operations, application of fertilizers and pesticides in *summer* cowpea, sunflower and soybean in and around Jabalpur.
- Undertake summer ploughing to conserve soil moisture and to destroy insect eggs and pathogens. Also arrange for seeds and other inputs for sowing of kharif crops.
- Monitor cucurbitaceous crops for red pumpkin beetle and spray Methyl Parathion @ 2 ml/litre of water to control the pest.

Orissa

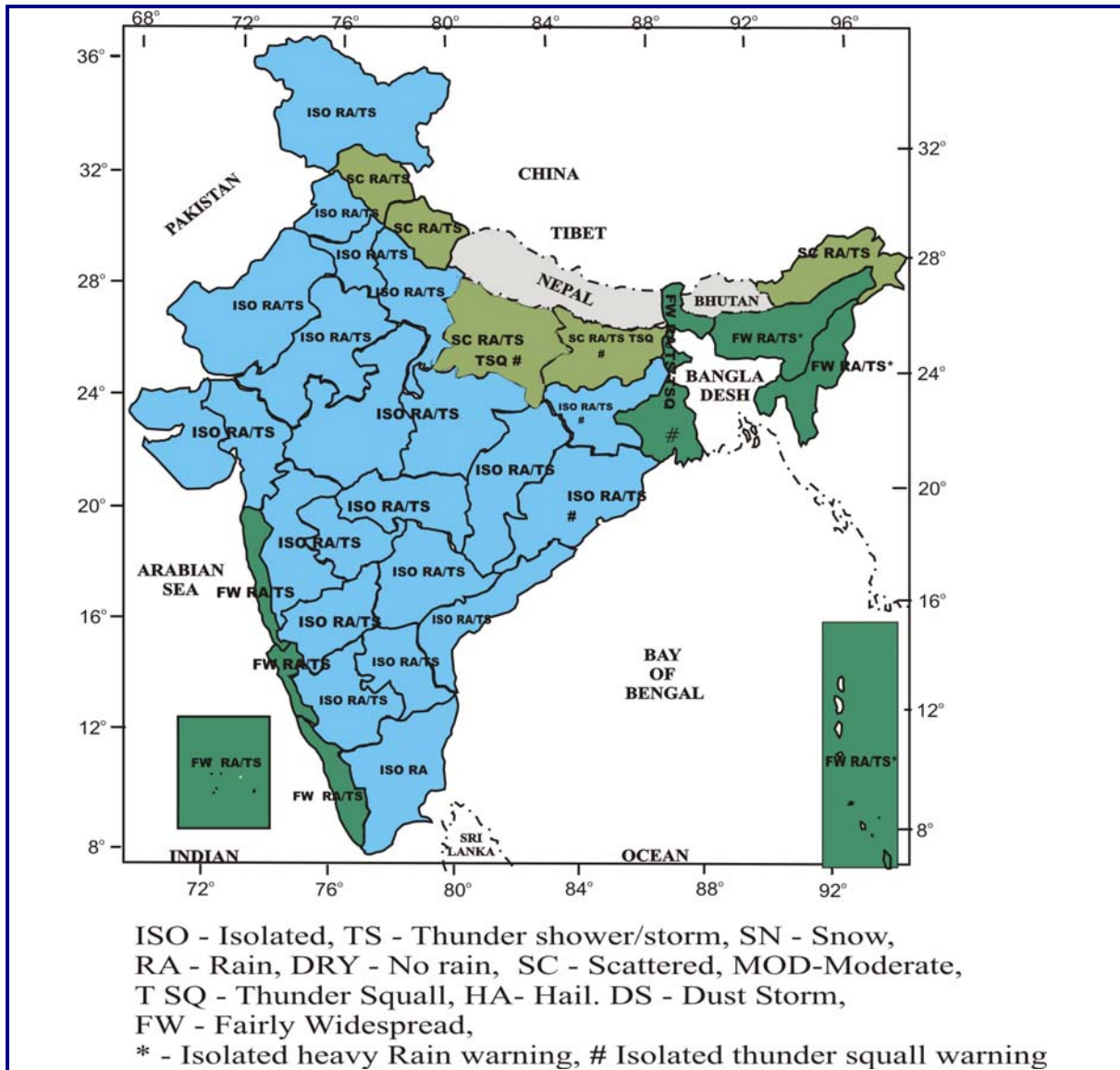
- Isolated rain/thundershowers are likely over the state.

Advisories

- As there was no significant rainfall during last week in most of the districts except in Jajpur, Keonjargarh, Nawrangpur and Koraput and rain/thundershower likely at isolated places over the State for next three days, apply irrigation to vegetables, moong and early sown sugarcane. Postpone irrigation in the above districts as there was excess rainfall during last week.

- There is mild chance of occurrence of aphids in vegetables. If the pest population crosses economic threshold level, spray Dimethoate or Methyl demeton @ 2 ml per litre of water. Also monitor the crop for leaf blight and spray Mancozeb @ 4-5 gm/litre of water to control leaf blight.
- Continue harvesting the matured, vegetable, pulses, oilseed crops and *dalua* rice crops.
- Monitor sugarcane for early shoot borer and undertake need based plant protection measures.
- This is proper time for sowing of maize under irrigated condition. Composites like Navjot, Shakti and hybrids like Decan-107, Decan-109 may be collected from the Govt. Sales Centres available at Block level. Use 6 kg seeds/acre. Apply 16 kg N, 16 kg P₂O₅ and 16 kg K₂O per acre as basal.
- Make arrangements for nursery sowing of rice. If soil profile is wet, go for dry sowing in lowlands.
- Start land preparation and sowing of baby corn and planting of turmeric, yam and Colocasia.

Forecast Valid upto 4th June, 2008



Salient weather features for the week ending 04/06/08

MAIN EVENTS OF THE WEEK

- Southwest monsoon set in over Kerala on 31st May against the normal date of 1st June.
- A low pressure area formed over eastcentral Arabian Sea on 4th June.
- The maximum temperature over northwest India and Rajasthan remained below normal to markedly below normal on many days due to scattered rain/thunderstorm activity over the region.

MONSOON WATCH

In association with strengthening and deepening of westerly flow over Arabian Sea and south Peninsula, presence of an off shore trough & an East-West shear zone, persistent convection over Arabian Sea and adjoining peninsular India and continued fairly widespread rainfall with isolated heavy to very heavy falls for the previous two days over Kerala, southwest monsoon set in over Kerala on 31st May 2008. It covered most parts of south Arabian Sea and Kerala, some parts of Tamil Nadu and some more parts of southwest & westcentral Bay of Bengal on that day. It further advanced into remaining parts of south Arabian Sea and Kerala, some parts of central Arabian Sea, most parts of Coastal Karnataka & South interior Karnataka and Tamil Nadu, entire southwest Bay of Bengal and some more parts of westcentral Bay of Bengal on 1st June and remaining parts of South Interior Karnataka, southern parts of North Interior Karnataka, most parts of Rayalaseema, some parts of Coastal Andhra Pradesh, remaining parts of Tamil Nadu, some more parts of westcentral & northeast Bay of Bengal, entire Nagaland, Manipur, Mizoram and Arunachal Pradesh and most parts of Tripura, Assam & Meghalaya on 2nd June.

METEOROLOGICAL ANALYSIS

- An off-shore trough at sea level extended from Karnataka to Kerala coast on many days of the week. An east-west shear zone with embedded cyclonic circulation over southeast Arabian Sea ran across south peninsula on many days of the week between 2.1 & 4.5 Km above mean sea level (a.m.s.l). Under the influence of above system, a low pressure area formed over east-central Arabian Sea on 4th June. Associated cyclonic circulation extended upto 5.8 km. a.m.s.l.
- Last week's upper air cyclonic circulation in lower tropospheric levels over Arunachal Pradesh & neighbourhood persisted on 29th and lay over Bihar and adjoining Sub-Himalayan West Bengal on 30th and became less marked on 31st.
- Strong southerly winds prevailed over north Bay of Bengal and northeastern States from 31st May onwards.
- Last week's upper air cyclonic circulation in lower tropospheric levels lay over Jammu & Kashmir and neighbourhood and moved away eastwards on 29th.
- A fresh cyclonic circulation at lower levels lay over north Pakistan and adjoining Jammu & Kashmir on 30th, Jammu & Kashmir and neighbourhood on 31st and moved away eastwards on 1st June.
- Another cyclonic circulation lay over north Pakistan and neighbourhood during 1-2nd June, Jammu & Kashmir and neighbourhood on 3rd and 4th June.
- A cyclonic circulation extending upto 0.9 km. a.m.s.l. lay over northwest Rajasthan and adjoining Haryana on 31st May. It lay over central Uttar Pradesh and neighbourhood on 1st June.
- A cyclonic circulation in lower levels lay over central Pakistan and neighbourhood on 2nd June, northwest Rajasthan and neighbourhood on 3rd June and Haryana and neighbourhood on 4th June.
- A cyclonic circulation in lower tropospheric levels lay over south Pakistan & neighbourhood on 29th. It persisted over the same region during 30th May to 4th June.

RAINFALL

- Scattered to fairly widespread rain/thundershower occurred over northeastern States and Sub-Himalayan West Bengal & Sikkim during many days of the week.
- Fairly widespread rain/thundershower occurred over Kerala and Lakshadweep during second half of the week. Scattered to fairly widespread rain/thundershower occurred over Coastal & South Interior Karnataka during the same period.
- Isolated to scattered rain/thundershower occurred over northwest India, Rajasthan, Uttar Pradesh, Madhya Pradesh and Orissa during many days of the week.

MAXIMUM TEMPERATURE

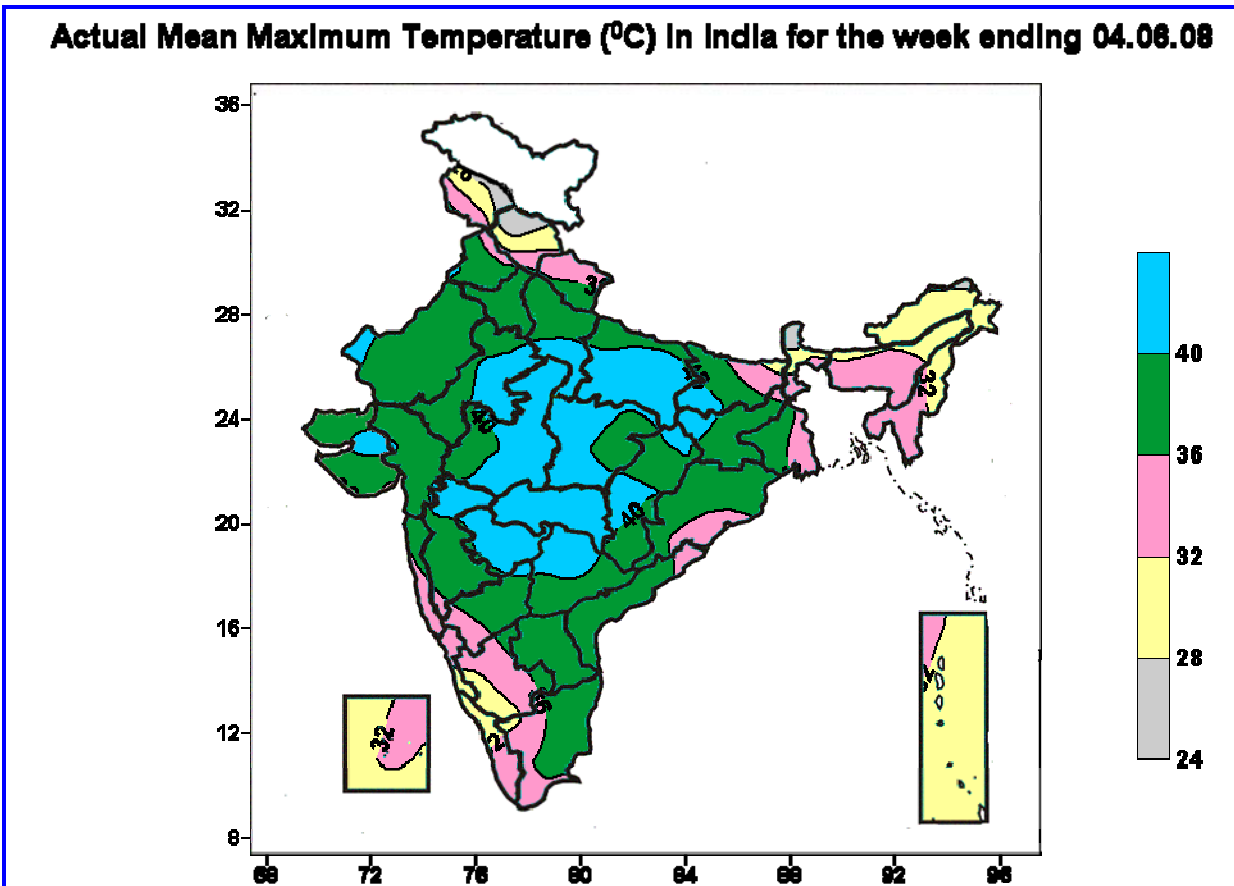
- The maximum temperatures were below normal / markedly below normal over northwest India and Rajasthan during many days of the week.
- They were above normal to appreciably above normal over Saurashtra & Kutch, Maharashtra, Coastal Karnataka, Coastal Andhra Pradesh and Telangana during many days of the week.
- They were also above normal to appreciably above normal over northeastern States and West Bengal & Sikkim during first half of the week.

Outlook For The Week Ending On 11th June 2008

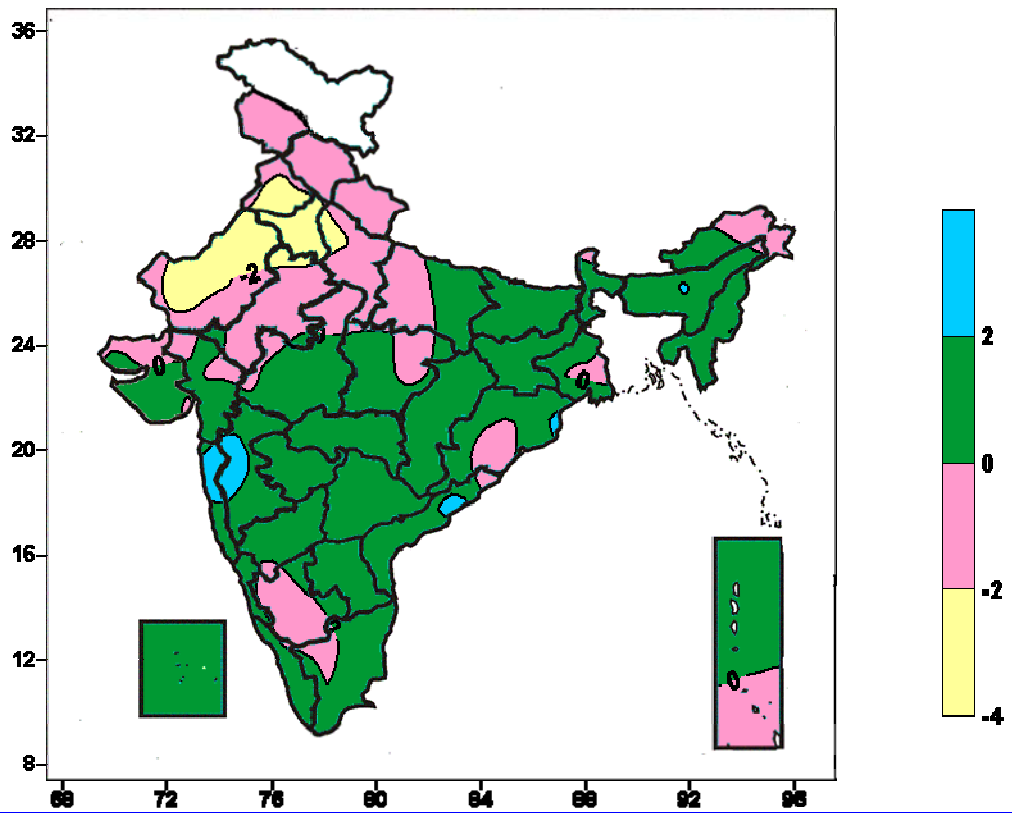
- Further advance of monsoon is likely over some more parts of south peninsula and east India.
- Increase in rainfall activity along west coast and East India.

The low pressure area over eastcentral Arabian Sea, which concentrated into a depression over eastcentral Arabian Sea and lay centered at 0530 hours IST of today, the 5th June 2008, is likely to intensify further and move in a northwesterly direction.

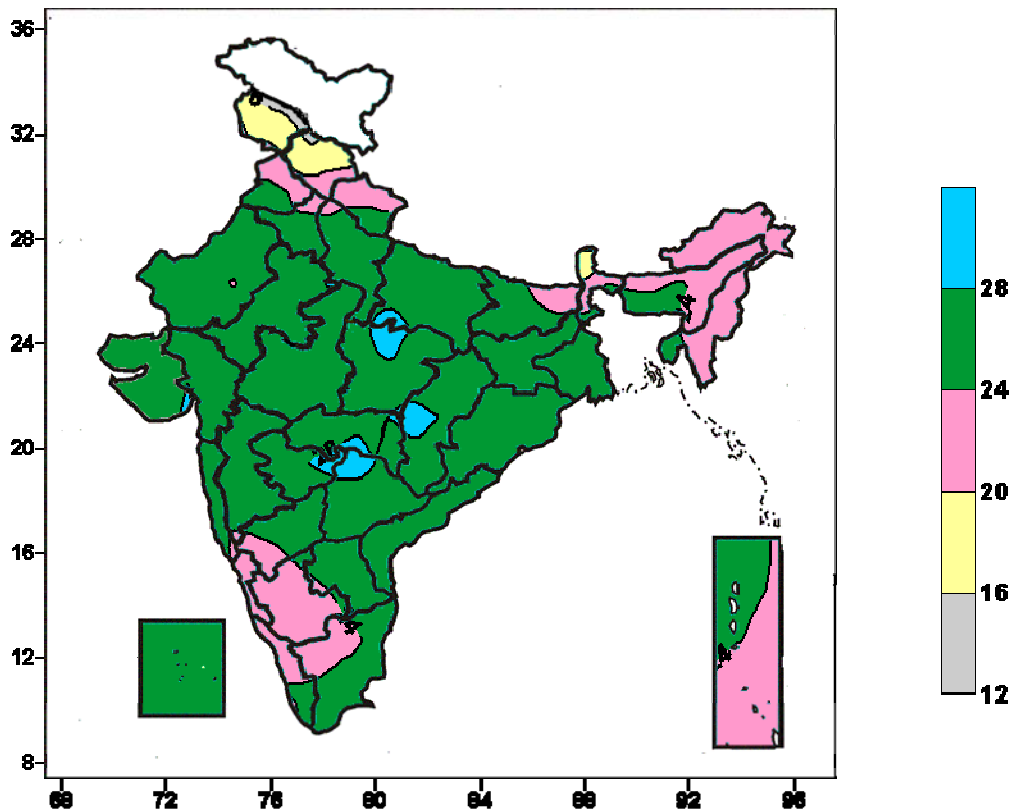
Contour maps for the week ending 4th June, 2008



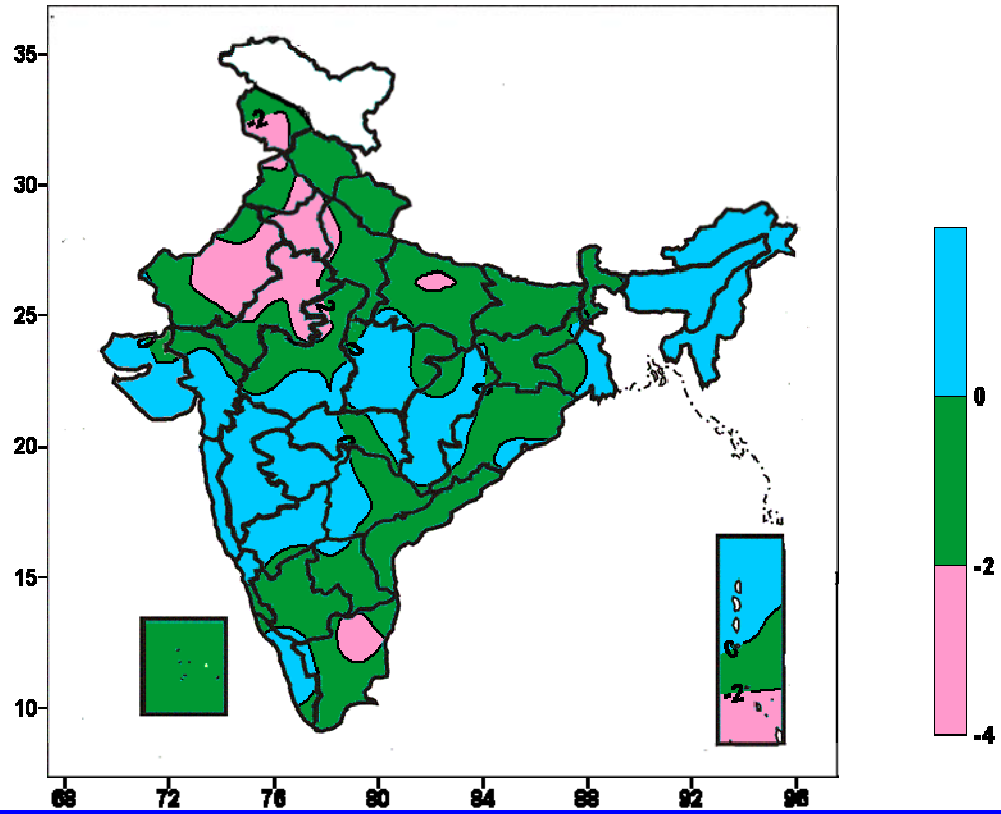
Maximum Temperature (°C) Anomaly In India for the week ending 04.08.08



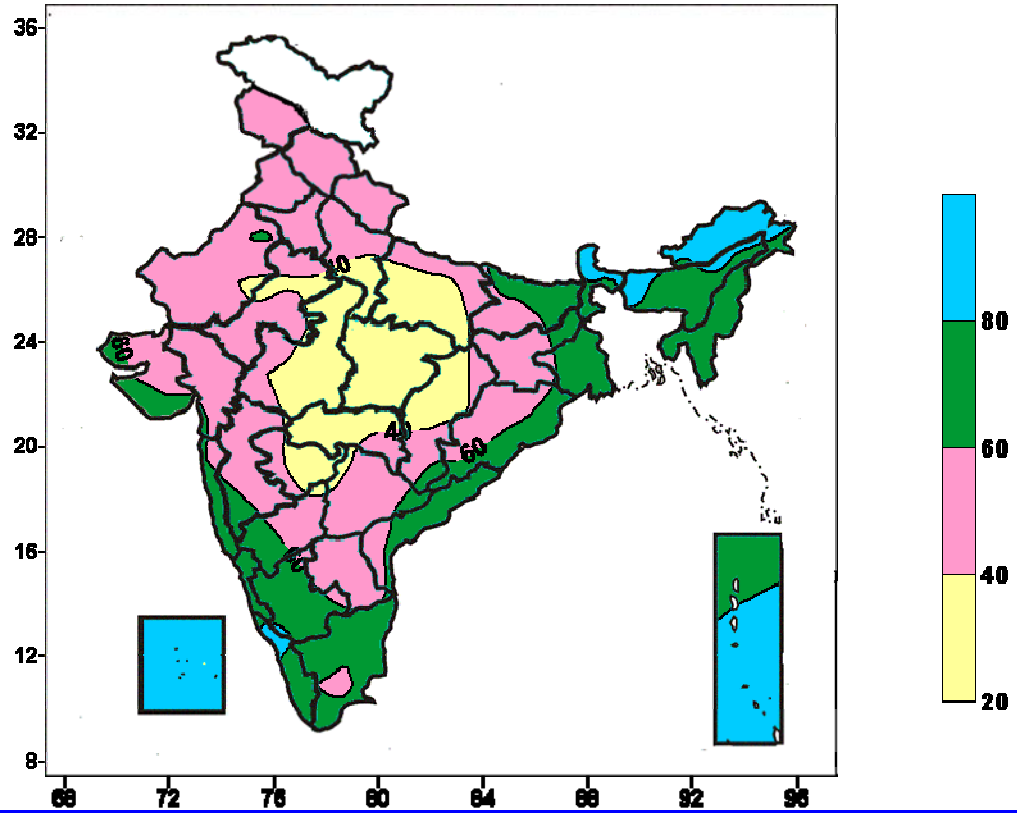
Actual Mean Minimum Temperature (°C) In India for the week ending 04.08.08



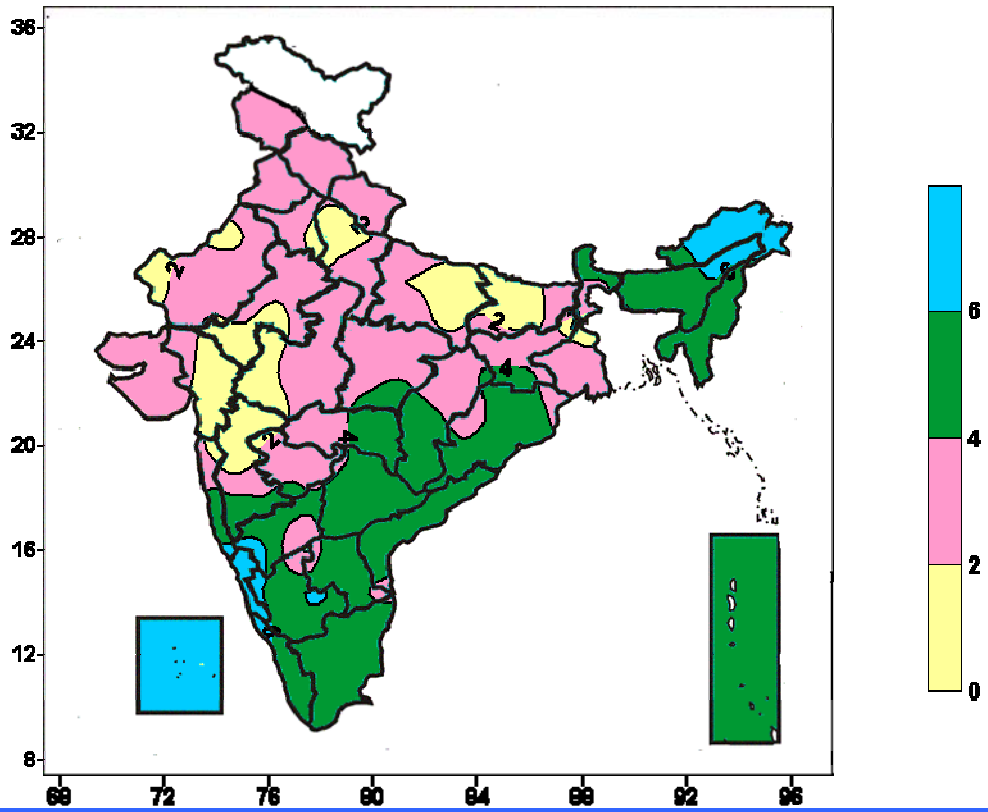
Minimum Temperature (°C) Anomaly In India for the week ending 04.06.08



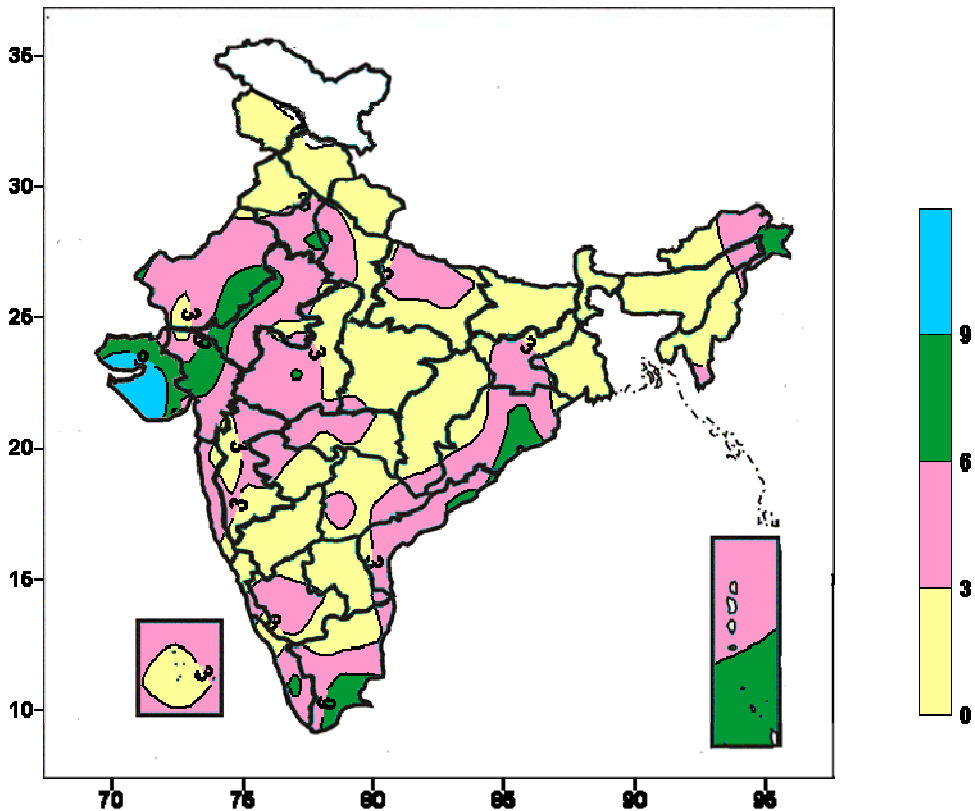
Relative Humidity (%) over India for the week ending 04.06.08



Cloud amount (okta) over India for the week ending 04.06.08



Wind speed (knots) over India for the week ending 04.06.08



Desert Locust Forecasting



Rainfall (mm)

Station Name	29/05/08	30/05/08	31/05/08	01/06/08	02/06/08	03/06/08	04/06/08
Amritsar	06.0	00.0	02.0	00.0	16.6	00.0	00.0
Barmer	00.0	00.0	00.0	00.0	00.0	24.7	00.0
Sriganganagar	00.0	00.0	00.0	00.0	05.1	00.0	00.0
Jaisalmer	00.0	00.0	00.0	00.0	00.0	06.4	00.0
Kota	00.3	00.0	00.0	00.9	00.0	00.0	00.0
Deesa	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Churu	01.8	00.0	00.0	01.3	00.6	00.0	00.6

Temperature(°C)

Station Name	29/05/08	30/05/08	31/05/08	01/06/08	02/06/08	03/06/08	04/06/08
Amritsar	31.0	31.0	30.5	30.5	-	30.0	30.0
Barmer	34.0	34.0	34.0	34.5	34.0	31.0	34.5
Sriganganagar	33.0	33.5	35.5	35.5	32.5	34.0	36.0
Jaisalmer	33.0	34.5	34.0	34.0	34.0	30.0	35.0
Kota	32.5	35.5	35.5	33.0	31.5	33.5	33.0
Deesa	32.0	31.5	31.5	32.0	31.0	31.5	32.0
Churu	33.5	33.5	35.5	30.5	29.5	32.5	34.5

Wind

Station Name	29/05/08		30/05/08		31/05/08		01/06/08		02/06/08		03/06/08		04/06/08	
	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed
Amritsar	W	03	NE	20	-	-	-	-	NNW	05	SE	04	ESE	05
Barmer	SW	11	S	19	-	-	SSW	18	SW	07	SW	09	WSW	12
Sriganganagar	E	10	W	06	E	08	SSW	18	-	-	ENE	05	NW	12
Jaisalmer	SW	18	SSE	31	-	-	SSW	26	-	-	N	14	WSW	15
Kota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deesa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Churu	WSW	11	SW	28	-	-	WNW	14	-	-	NW	08	NNW	09

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

CROP - STATE - STAGE

New Delhi

Vegetables	Arhar	Rice		
Vegetative / flowering / fruiting/ harvesting	Land preparation/ sowing	Land preparation and nursery sowing		
Haryana				
Autumn sugarcane	Horticultural crops	Sunflower	Summer Pulses	Cotton
Vegetative	Vegetative	Vegetative/flowering	Vegetative	Sowing

Himachal Pradesh				
Vegetables (Ladies finger/ Cabbage, Cauliflower)	Onion	Rice	Apple	Maize
Vegetative/flowering/fruiting/harvesting	Bulb development/maturity	Nursery sowing	Fruit development	Land preparation for sowing
Potato				
Sprouting / early vegetative / vegetative				

Jammu & Kashmir				
Vegetable crops	Wheat	Pulses	Rice	
Vegetative	Harvesting	Vegetative	Transplanting	

Punjab				
Autumn sugarcane	Horticultural crops	Summer pulses	Sunflower	Paddy
Vegetative	Vegetative	Vegetative	Vegetative/flowering	Land preparation for nursery sowing

Rajasthan				
Cotton	Summer Vegetable crops			
Sowing	Vegetative			

Uttar Pradesh				
Summer Sugarcane	Vegetables	Summer pulses	Sunflower	Mango
Vegetative	Fruiting / harvesting	Vegetative	Vegetative	Fruit setting
Oilseeds				
Vegetative				

Uttarakhand				
Mango/Litchi	Sugarcane	Potato	Apple	
Fruiting/picking	Vegetative	Tuber development	Vegetative	

Assam				
Regular Ahu rice	Maize	Horticultural plants	SugarCane	Summer vegetables
Broadcasted-Early vegetative / tillering Transplanted-Vegetative	Early vegetative / vegetative	Planting	Vegetative	Vegetative / flowering /fruiting/harvesting
Early Ahu rice	Jute	Early sown Jute	Arhar	
Tillering	Germination / early vegetative / vegetative	Germination / early vegetative	Land preparation for sowing	

Arunachal Pradesh				
Wet seeded rice	Summer Vegetables	Ginger	Jhum Rice	Maize, Millet
Land preparation /transplanting	Vegetative	Early vegetative / vegetative	Vegetative	Vegetative

Bihar				
Vegetables & fruit crops	Summer Maize	Summer rice	Sugarcane	Potato
Vegetative/flowering/fruiting	Maturity	Maturity	Vegetative/flowering/ maturity	Tuber formation

Jharkhand				
Summer rice	Litchi / Mango	Vegetables (Tomato, Brinjal, Bhendi)	Wheat	Summer moong and til

Ripening/maturity	Vegetative (tree)	Vegetative / flowering / fruiting/harvesting	Harvesting	Maturity
-------------------	-------------------	--	------------	----------

Sikkim

Orange	Vegetables	Large Cardamom	Maize	
Fruiting/Harvesting	Sowing	Capsule Development/maturity	Grain maturity	

West Bengal

Sugarcane	Jute	Sesamum	Groundnut	Green Gram
Vegetative	Germination / seedling / early vegetative/vegetative	Pod formation/seed formation/early maturity	Seed formation/early maturity	Pod formation/early maturity
Boro rice	Aus Rice			
Dough / early maturity/ maturity	Preparation of land			

Chhatisgarh

Sugarcane	Sesame	Summer Rice	Vegetables	Green gram
Autumn sugarcane – Vegetative	Pod formation / seed formation/ early maturity	Milk/dough/maturity	Vegetative / flowering / fruiting/harvesting	Pod formation
Sunflower	Groundnut			
Seed formation/early maturity	Seed formation/early maturity			

Gujarat

Sugarcane	Summer rice	Summer groundnut	Summer bajra	
Vegetative	Grain maturity/harvesting	Pod development/early maturity	Grain development/ early maturity	

Maharashtra

Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Maharashtra, Marthwada and Vidarbha)	Summer sunflower	Mango	Green gram
Elongation / cane development	Active growth / elongation	Seed maturity	Fruit development/ fruit maturity/harvesting	Harvesting
Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Rice	Summer bajra	Summer groundnut	Irrigated cotton
Vegetative	Grain maturity Harvesting-south konkan	Grain maturity/harvesting	Pod maturity Harvesting- Sindhudurg	Land preparation and sowing

Madhya Pradesh

Sugarcane	Summer Sugarcane	Summer moong		
Grand growth	Vegetative	Harvesting		

Orissa

Vegetable crops	Rice	Sugarcane	Moong	Maize
Flowering/fruiting/harvesting	Grain maturity/harvesting	Vegetative	Vegetative	Sowing

Andhra Pradesh

Chillies	Sugarcane			
Vegetative	Vegetative			

Karnataka

Summer rice, Sunflower	Annual sugarcane	Early kharif Crops	Rabi Cotton	Kharif crops
Grain maturity/harvesting	Tillering	Early vegetative	End picking	Sowing

Kerala

Virippu- rice	Rubber	Coconut	Banana	Pepper
sowing	Planting	Land preparation for new planting	Planting	Land preparation for new planting

Tamil Nadu

Rice (Samba)	Sugarcane (Early, Mid season)	MaizeJowar/Bajra/Samai	Groundnut/Black gram/Green gram/Red gram	Special season sugarcane
Grain maturity	Cane development / maturity	Grain development/maturity	Pod	Grand growth

			development/matu rity	
Sorghum	Cotton			
Sowing	Maturity/picking			
