



Summary of Agromet Advisory Services for different States of the country

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(For the period 29th May to 2nd 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.
- Apply 15 kg Nitrogen/ha in early sown sunflower hybrids.
- Continue sowing of summer moong and mash.
- Continue sowing of radish.
- Start 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 Ambala, Bhiwani, Mahendragarh and Rohtak districts and rain/thundershowers are likely at isolated places over the State, apply irrigation to sugarcane, oilseeds, pulses and horticultural crops. Postpone irrigation in the above districts 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.
- Apply 15 kg Nitrogen/ha to sunflower hybrids. Continue sowing of summer moong and mash.
- 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

- Rain / thundershower occurred at isolated places in all the divisions of the state on 28th may and weather remained mainly dry in the state.
- 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.
- Monitor *summer* tomato, bhindi and chilli from collar rot disease in and around Jaipur, Ajmer, Dausa and Tonk and if the damage crosses ETL, apply Blitox-50 @ 8 kg per hectare near roots and immediately provide light irrigation.
- Continue land preparation and sowing of *summer* 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 summer ploughing after the harvest of wheat, barley and gram in and around Alwar, Dholpur, Bharatpur, Karauli and Sawai Madhopur to conserve summer rains and to kill insect pupae and pathogens.
- Monitor bhendi for fruit borer. To control, spray Endosulfan 35 EC @ 1.5 ml per litre water.

Uttar Pradesh

- Isolated rain/thundershowers are likely over west Uttar Pradesh and mainly dry weather is likely over east Uttar Pradesh.

Advisories

- As there was no significant rain during last week in the State except in Allahabad, Lucknow and Aligarh and rain/thundershower is likely at isolated places over west Uttar Pradesh and mainly dry weather is likely over east Uttar Pradesh for the next three days, apply irrigation to vegetable, sugarcane, summer pulses and sunflower crops. Postpone irrigation in the above districts as there was excess rainfall during last week.
- 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.

Himachal Pradesh

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

Advisories

- As there was no significant rainfall in the State during last week except in Hamirpur, Kangra, Mandi, Solan and Shimla and rain / thundershower is likely only at isolated places over the State for next three days, apply irrigation to vegetables, onion and potato. Postpone irrigation in the above districts as there was excess rainfall.
- 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.
- 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 is 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.
- Start 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.
- Start preparation of land for sowing of maize by ploughing and mixing biological manures properly.
- Red pumpkin beetle and fruit fly may appear in the already transplanted cucurbitaceous crops. If noticed, spray malathion / endosulphon @ 0.15 percent on a non-rainy day at 10 days interval to control the insect.

Uttarakhand

- Isolated rain/thundershowers are likely over the state.

Advisories

- As rain/thundershowers is likely at isolated places over the State for the next three days, apply irrigation to sugarcane, potato and orchard trees.
- Undertake intercultural operations in orchards and sugarcane 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.
- Undertake land preparation and sowing of rice in the nursery in and around Roorkey.

Jammu & Kashmir

- Isolated rain/thundershowers are likely over the State.

Advisories

- As rain/thundershowers is likely 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, chillies, 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 in the main field and rice in the nursery 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 nursery sowing of rice (var. IET-1410, K-39, Ratna, PC-19, RR-8585, Jaya, Basmati 370, Ranbir basmati, Sambal basmati and hybrid KRH-2 & PHB-71) under sub tropical condition of Jammu without further delay. Before sowing seed should be treated with Carbendazim @ 2 gm/kg or Thiram @ 3gm/kg of seed against seed borne disease like blast, stem rot, brown spot etc. F.Y.M. or compost should be incorporate at the rate of 15 kg per 10 sq.m of nursery bed.

Delhi

- Light to moderate rain / thundershower occured at most places on 27th. Weather remained dry on rest of the days.
- Isolated rain/thundershowers are likely over the State.

Advisories

- As there was excess rain during last week, postpone 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.
- Undertake measures to protect the cauliflower nursery from scorching.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

- Rain / thundershowers occurred at a few places on 26th & at isolated places on 27th in Kerala. Mainly dry weather prevailed on 28th .
- Rain/thundershowers are likely at a few places the state.

Advisories

- As there was no sufficient rainfall in most of the districts over the State during last week and rain/thundershowers is likely to occur at a few places during next three days, apply irrigation to plantation crops viz., coconut, arecanut, rubber and banana.
- Attack of foot rot is reported in pepper nursery. Spray Bordeaux mixture @ 1% on a non rainy day 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 on a non rainy day. 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 on a non rainy day to control rhinoceros beetle.

- Attack of mahali disease is reported in arecanut. Apply 1% Bordeaux mixture on a non rainy day 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/ thundershowers likely over the State.

Advisories

- Apply irrigation to groundnut, sugarcane and pulse crops as there was no significant rainfall during last week except in Karur, Krishnagiri, Namakkal and Salem districts and rain/thundershowers likely at isolated places over State. Postpone irrigation in the above districts as there was excess rainfall during last week.
- 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 fluorescence* @ 10g/ kg of seed then with *Azospyrillum* @ 600gms + Phosphobacteria @ 600gms/Ha of seed before 30minutes on the day of sowing.
- Undertake summer ploughing in order to conserve soil moisture and destruction of pupa and larvae of insects.
- Continue picking of cotton in and around Kannivadi region. Picking may be done during early morning hours to maintain the quality of kapas.
- Monitor cotton for bollworm and undertake spraying of Endosulfan @ 1 litre/ha in and around Kovilpatty.
- 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 occur at many places on 26th, and at isolated places on all the remaining days over South Interior Karnataka; rainfall occurred at few places on 26th & 27th and at isolated places on 28th over Coastal Karnataka & rainfall occurred at isolated places on all the days over North Interior Karnataka.
- Rain/thundershowers are likely at a few places over Coastal Karnataka. Isolated rain/thundershowers are likely over the rest of the state.

Advisories

- As there was no sufficient rainfall in the State during last week and rain/thunder showers are likely at a few places over Coastal Karnataka and isolated 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 may be undertaken on a non rainy days in Coastal Karnataka.
- Continue harvesting matured crops of rice and sunflower on bright sunny days.
- Undertake ploughing and arrange for inputs to undertake sowing of kharif crops like green gram, black gram, jowar and sunflower as monsoon is fast approaching.

Advisories

- As there was no sufficient rainfall in the State during last week and rain/thunder showers are likely at a few places over Coastal Karnataka and isolated 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 may be undertaken on a non rainy days in Coastal Karnataka.
- Continue harvesting matured crops of rice and sunflower on bright sunny days.
- Continue land preparation and sowing of early *kharif* crops like green gram, black gram, jowar and sunflower.

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.
- Undertake summer ploughing in order to conserve soil moisture and destruction of pupa and larvae of insects. Also arrange for inputs to undertake sowing as monsoon is fast approaching.

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

Assam

- Dry weather prevailed over the region.
- Rain/thundershowers are likely at a many places over the state.

Advisories

- As rain / thundershowers are likely at a few places accompanied with squall are likely over Sub Himalayan West Bengal and isolated rain/thundershowers are likely over Gangetic West Bengal, apply 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 on a non rainy day in Sub Himalayan West Bengal.

Arunachal Pradesh

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

Advisories

- As rain / thundershowers are likely at many places over the state for next three days and fairly widespread rainfall activity is likely to continue after that, postpone irrigation to the crops.
- Undertake intercultural operations, application of fertilizers and pesticides in ginger, *summer* vegetable crops, *jhum* rice and millets after spells of rain.
- Prepare land preparation and continue transplanting of wet seeded rice. Maintain spacing of 20 cm X 10 cm.

Bihar

- Light to moderate rainfall occurred at many places from 22nd to 26th May and weather was dry on rest of the days.
- Mainly dry weather is likely over the state.

Advisories

- As there was no significant rainfall during last week and mainly dry weather is likely to prevail over the state for next three days, apply irrigation to the crops.
- Maintain 3– 5 cm standing water in the summer rice field.

- 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 and moong on bright sunny days.

Jharkhand

- 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 vegetable, summer moong and til.
- Maintain 3 – 5 cm of standing water in the summer rice field.
- Undertake intercultural operations in the standing crops to keep the field weed free.
- In case of attack of gundhibug in summer rice, spray Endosulphan with 4% dust or 10 Kg. Indolphos with 1.5% dust per acre.

Sikkim

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

Advisories

- As rain/thundershower likely at a few places accompanied with squall over the state for the next three days, apply irrigation to orange, large cardamom, early sown maize and vegetable crops.
- Dry grasses used for mulching near the orange trees must be removed before rain. Also 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.
- Start 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. The climbing plants (vegetables) should be sown in the lowermost terrace of the vegetable garden.

West Bengal

- As rain / thundershowers are likely at a few places accompanied with squall are likely over Sub Himalayan West Bengal and isolated rain/thundershowers are likely over Gangetic West Bengal, apply 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 fertilizers, pesticides and intercultural operations may be continued on a non rainy day in Sub Himalayan West Bengal

Advisories

- As rain / thundershowers are likely at many places over the state for next three days, postpone irrigation and intercultural operation to the crops.
- Apply 6.5 kg urea per bigha as top dressing for second time in jute after current spells of rain.
- 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.
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- 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.
- Apply fertilizers and plant protection measures after current spells of rain.

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

Gujarat

- Mainly dry weather is likely over the state.

Advisories

- As there was no rain during last week over the State and mainly dry weather is likely for next three days, 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

- There is mild chance of occurrence of powdery mildew in mango and cucurbits and citrus canker in lemon in North Saurashtra Zone.
- For the control of powdery mildew in mango and cucurbits, wettable sulphur @ 25 gm in 10 litres of water should be sprayed.
- For the control of citrus canker in lemon, copper oxy chloride @ 40 gm or streptocycline @ 5 gm 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/thundershower is likely over the State.

Advisories

- As there was no significant rainfall during last week and rain / thundershower is likely only at isolated places 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 with Nitrogen may be done at knee high stage.
- Prepare nursery of 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 occurred at a few places in south Konkan & south Madhya Maharashtra and mainly dry weather prevailed over rest of the State.
- Day temperatures were 2 to 3°C above normal in North Konkan, south Madhya Maharashtra and Marathwada and normal over rest of the State.
- Isolated rain/thundershowers are likely over south Madhya Maharashtra.
- Mainly dry weather is likely over the rest of the state.

Advisories

- As there was no significant rain during last few weeks and isolated rain/thundershowers are likely over south Madhya Maharashtra and mainly dry weather is likely over the State for the next three days, apply irrigation to sugarcane (pre-seasonal), sugarcane (*suru*), summer groundnut and summer sunflower.
- 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.
- Continue harvesting of already matured crops of green gram, groundnut (in Sindhudurga district), summer rice (in South Konkan) and summer bajra on bright sunny days.

- Incidence of red mites on bhindi crop is reported in Pune. If attack crosses economic threshold level, spray Omite @ 2 ml or Dicofol @ 2 ml or Vertimec @ 0.5 ml per litre of water.
- Brinjal is infested by aphids, jassids & white fly in Western Maharashtra Scarcity Zone (Rahuri). For the control of jassids spray, Imidacloprid @ 4 ml in 10 liters of water. For the control of white fly spray, 5 % Neem seed extract or Methidathion @ 10 ml in 10 liters of water.
- Land may be prepared for the sowing of irrigated cotton. Select a variety from LRH-5166, JLH-168 as improved variety & Phule-492, Phule-388, Sankar-6 & 10, PKV-4 & 5 as hybrid variety. Seeds may be treated with 250 gm Azotobacter / 10 kg seeds. Sowing may be at 90 X 90 cm in medium, at 120 X 90 cm distance in black soil for Hybrid variety and at 90 X 90 cm for improved variety. Nitrogen @ 20 kg and Phosphorus and Potash @ 50 kg each / ha may be applied at the time of sowing.
- After harvesting of summer crops ploughing & harrowing may be done in the field for *kharif* crops.

Madhya Pradesh

- Rainfall occurred at isolated places in Northwest M.P. on 27th and Northeast and Southwest M.P. on 28th and Mainly dry / dry weather prevailed over rest of the state on remaining period.
- Isolated rain/thundershowers are likely over north Madhya Pradesh. Mainly dry weather is likely over the rest of the state.

Advisories

- As there was no significant rain during last week in the State and rain/thundershower is likely at isolated places over north Madhya Pradesh and mainly dry weather is likely over the rest of the state for the next three days, apply irrigation to *summer* sugarcane.
- Undertake intercultural operation in sugarcane to keep the field weed free.
- Start harvesting *summer* moong crop.
- Undertake intercultural operations, application of fertilizers and pesticides in *summer* urd, 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.

Orissa

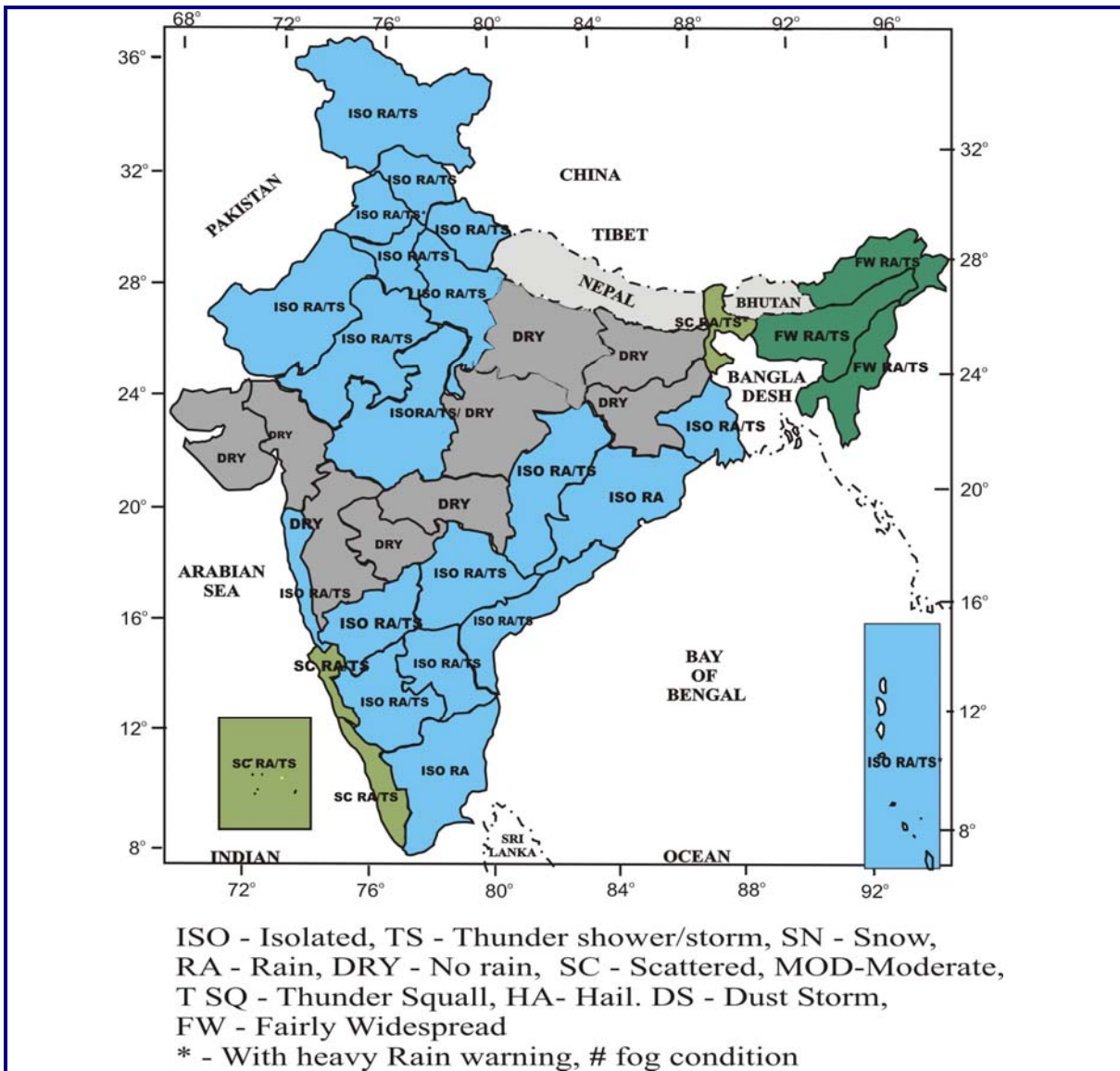
- Isolated rain/thundershowers are likely over the state.

Advisories

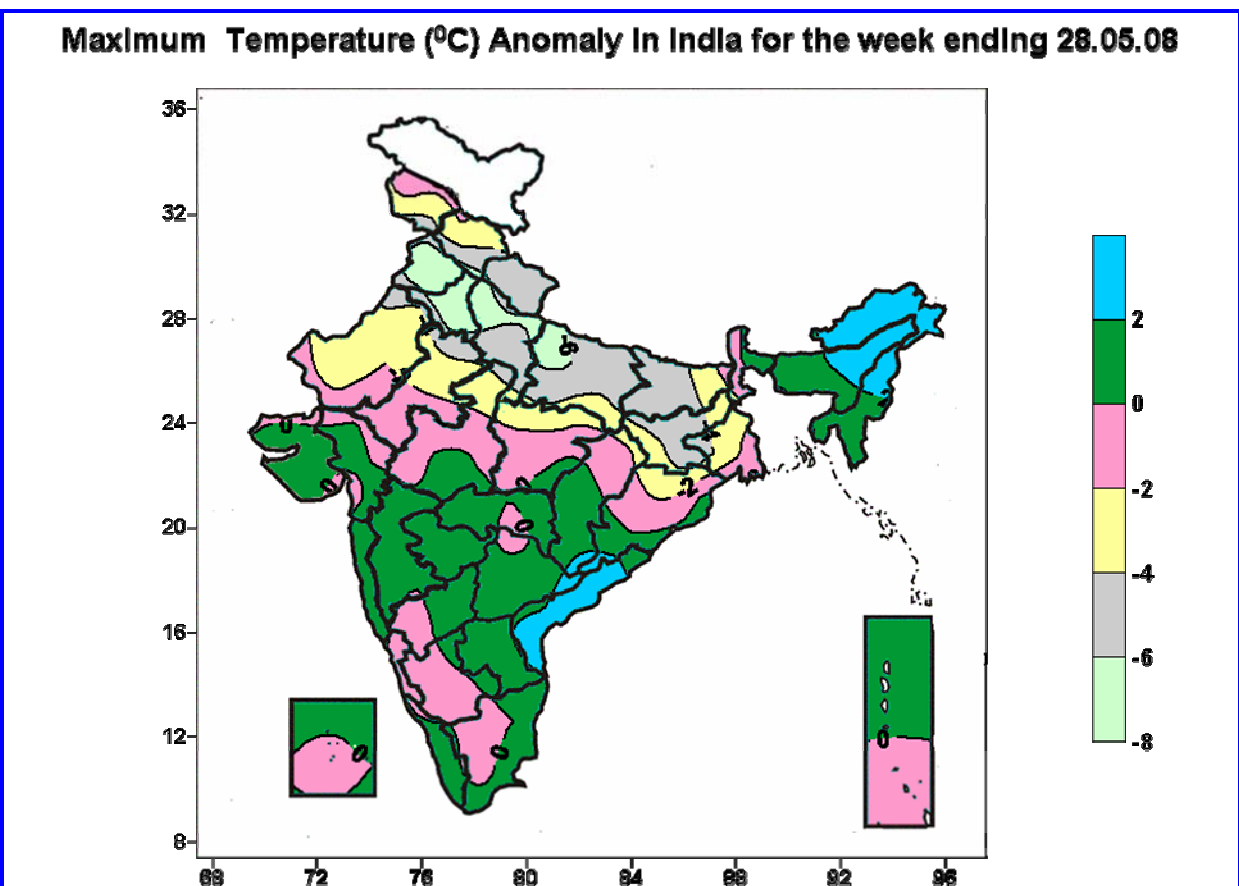
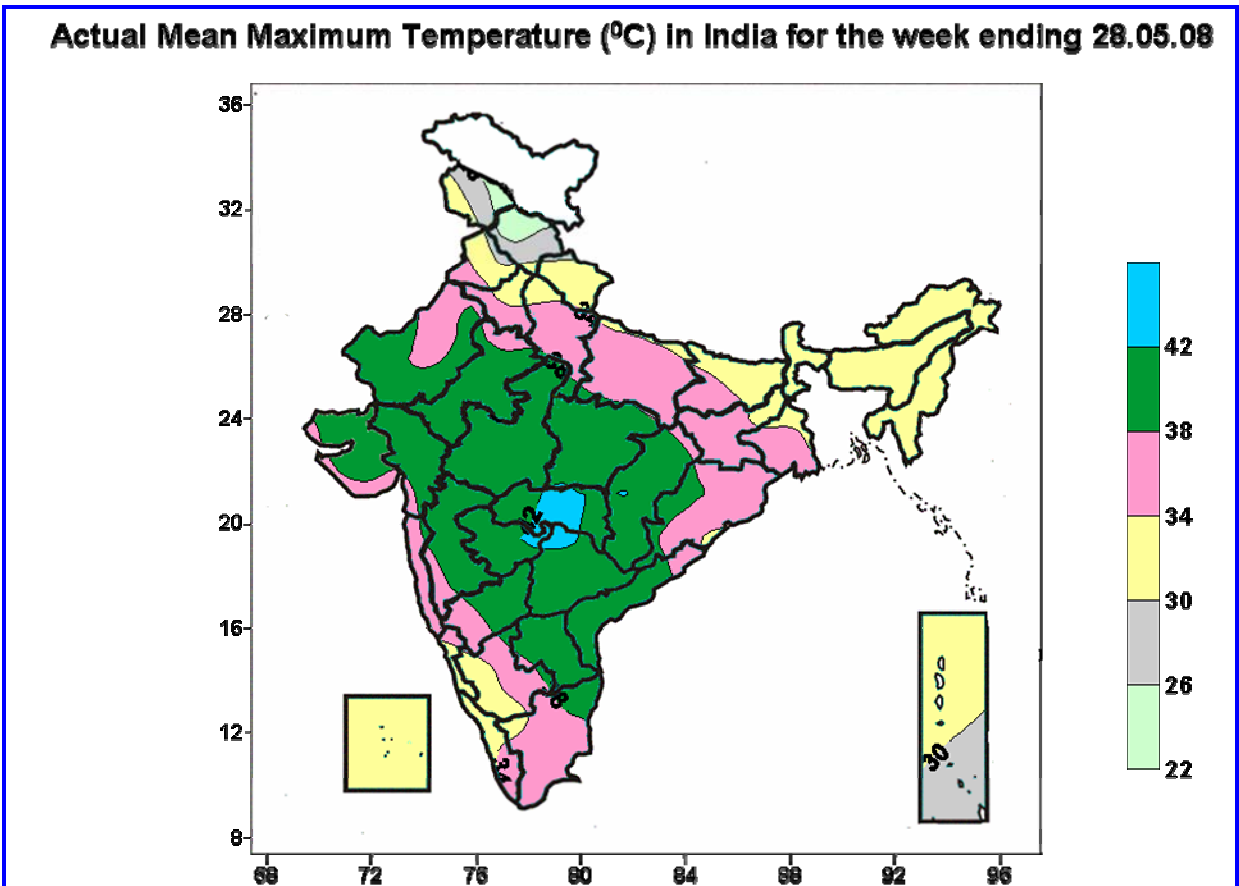
- As there was no significant rainfall during last week in most of the districts except in Bhadrak, Gajapati, Nawrangpur and Kendrapara and rain/thundershower likely at isolated places over the State for next three days, apply irrigation to vegetables, moong and early sown sugarcane. Postpone irrigation 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 Methidathion @ 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.

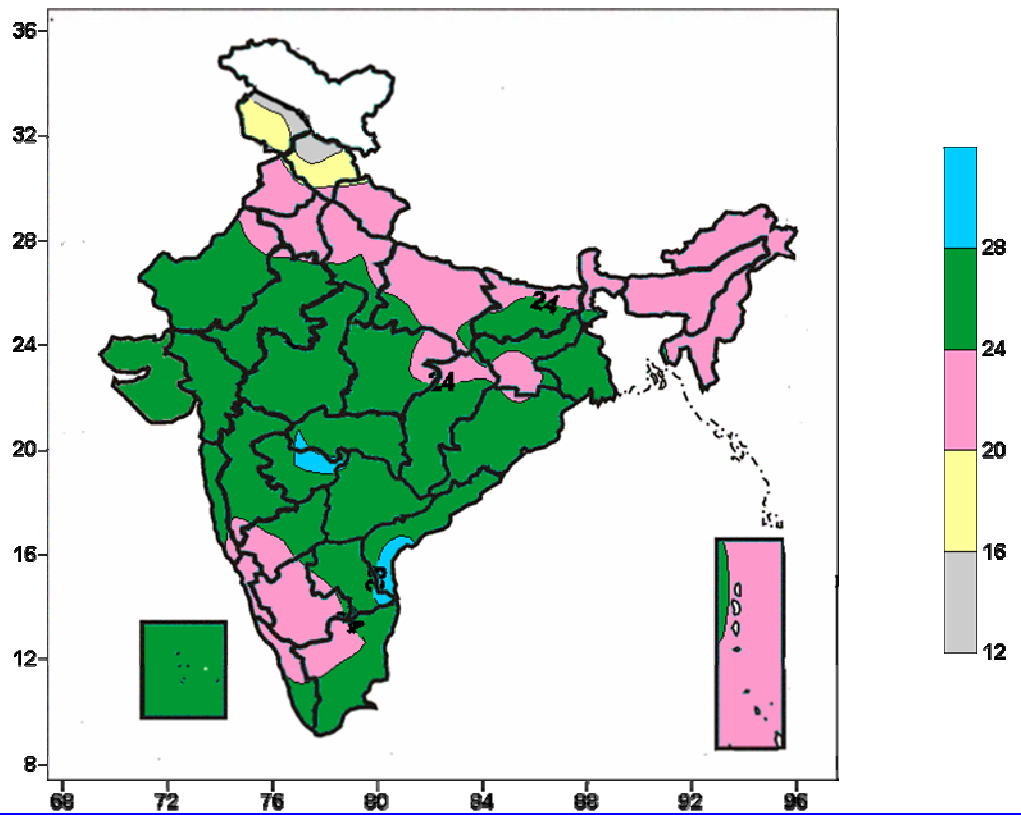
Forecast Valid upto 29th May, 2008



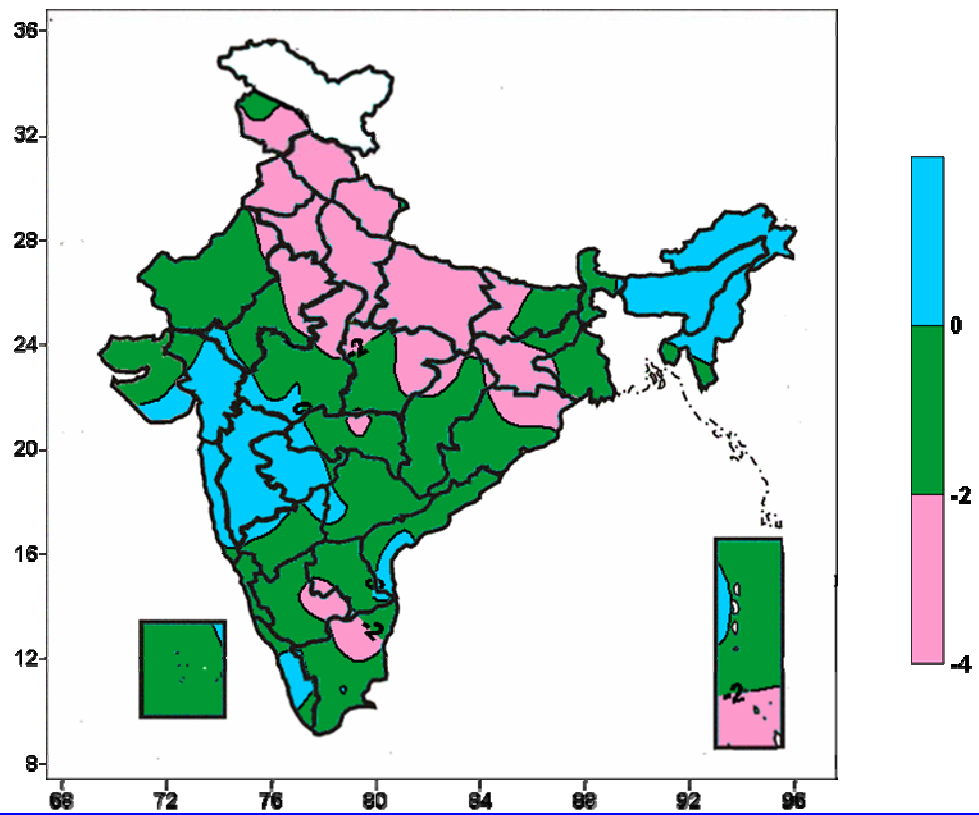
Contour maps for the week ending 28th May, 2008



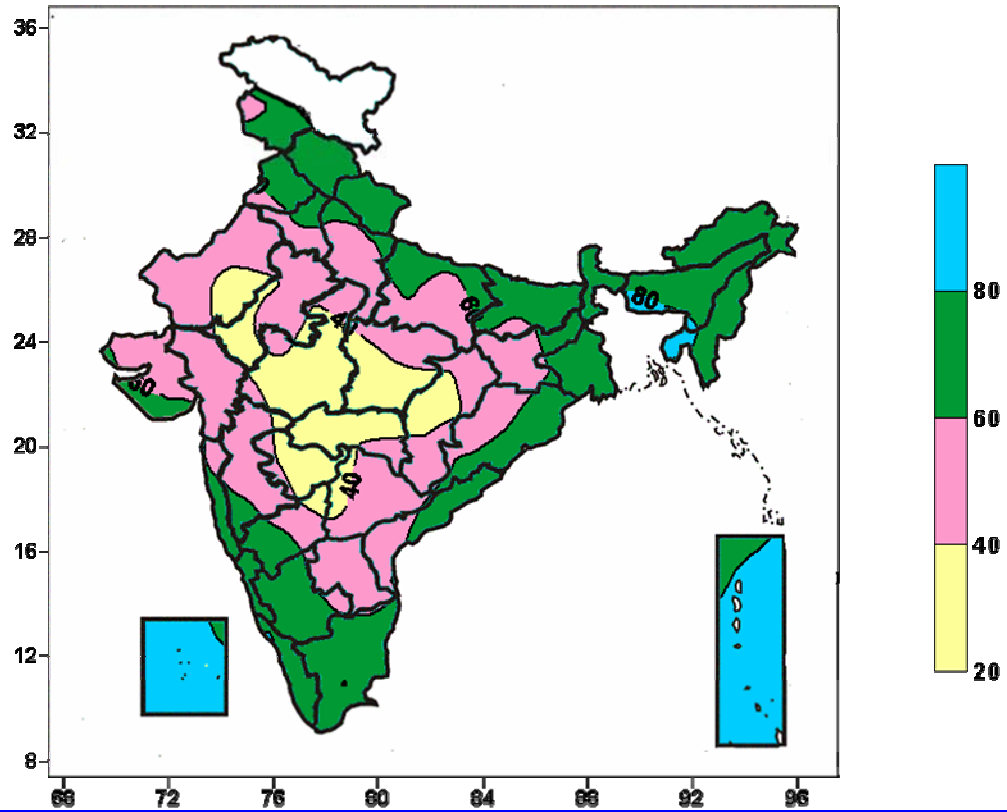
Actual Mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 28.05.08



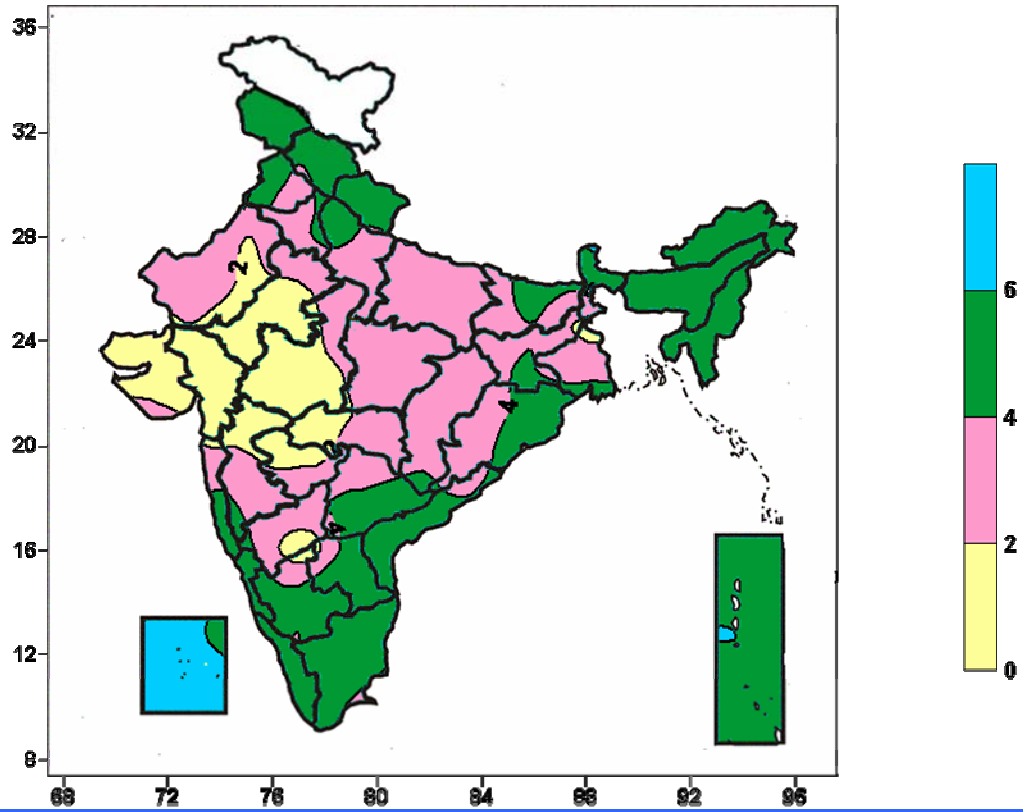
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 28.05.08



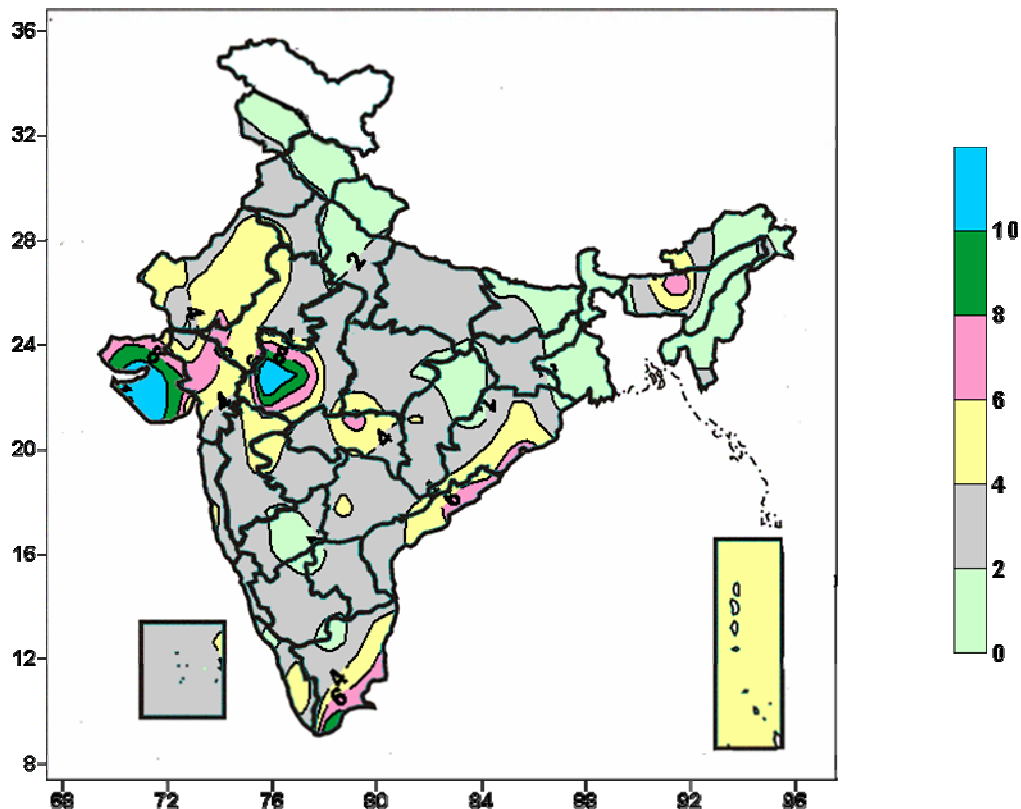
Relative Humidity (%) over India for the week ending 28.05.08



Cloud amount (okta) over India for the week ending 28.05.08



Wind speed (knots) over India for the week ending 28.05.08



Desert Locust Forecasting



Rainfall (mm)							
Station Name	22/5/08	23/5/08	24/5/08	25/5/08	26/5/08	27/5/08	28/5/08
Amritsar	05.9	01.8	00.0	00.0	01.4	00.0	01.4
Barmer	00.0	00.0	00.0	00.0	00.0	00.0	03.6
Sriganganagar	12.4	00.0	00.0	00.0	06.6	00.0	00.0
Jaisalmer	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Kota	00.0	00.0	02.5	00.0	00.0	00.0	03.6
Deesa	00.0	00.0	00.0	00.0	00.0	00.0	00.0
Churu	00.0	00.0	03.7	00.0	00.0	00.0	02.0

Temperature(°C)							
Station Name	22/5/08	23/5/08	24/5/08	25/5/08	26/5/08	27/5/08	28/5/08
Amritsar	23.5	28.9	28.3	27.8	26.8	24.3	28.0
Barmer	32.8	34.5	33.9	33.6	35.0	23.0	35.1
Sriganganagar	27.8	33.2	-	31.7	27.6	31.3	32.6
Jaisalmer	32.0	33.8	32.9	33.0	34.5	35.4	34.7
Kota	34.5	35.2	31.4	36.3	36.8	34.9	35.3
Deesa	31.0	32.1	33.1	31.5	31.8	32.7	32.3
Churu	32.0	34.1	29.6	33.9	31.6	34.8	31.6

Wind														
Station Name	22/5/08		23/5/08		24/5/08		25/5/08		26/5/08		27/5/08		28/5/08	
	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed
Amritsar	-	-	SE	12	-	-	-	-	-	-	NE	04	NW	04
Barmer	-	-	-	-	-	-	-	-	-	-	W	08	W	18
Sriganganagar	-	-	-	-	-	-	-	-	-	-	NNW	05	N	12
Jaisalmer	-	-	SSE	09	-	-	-	-	-	-	W	18	WSW	15
Kota	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deesa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Churu	W	13	WN W	09	-	-	-	-	-	-	NW	06	NE	06

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	Wheat
Vegetative	Vegetative	Vegetative	Sathe moong- complete sowing Moong-sowing	Harvesting
Cotton				
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	Barley, Oat	Rice
Vegetative	Harvesting	Vegetative	Harvesting-Jammu	Nursery sowing

Punjab

Autumn sugarcane	Horticultural crops	Summer pulses	Sunflower	
Vegetative	Vegetative	Early vegetative	Vegetative	

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-Transplanting	Early vegetative / vegetative	Planting	Early vegetative / vegetative	Vegetative / flowering /fruiting/harvesting
Early Ahu rice	Jute	Early sown Jute		
Tillering	Germination / early vegetative / vegetative	Germination / early vegetative		

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	Milk/dough/early maturity	Vegetative	Tuber formation

Jharkhand

Summer rice	Litchi / Mango	Vegetables (Tomato, Brinjal, Bhendi)	Wheat	Summer moong and til
Milk/dough	Vegetative (tree)	Vegetative / flowering / fruiting/harvesting	Harvesting	Seed formation/development

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	Head formation/seed formation	Fruit development/ fruit maturity/harvesting	Pod maturity/harvesting
Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Rice	Summer bajra	Summer groundnut	Irrigated cotton
Vegetative	Grain formation Grain maturity Harvesting-south konkan	Grain maturity/harvesting	Pod formation/ Pod maturity Harvesting- Sindhudurg	Land preparation and sowing

Madhya Pradesh

Sugarcane	Summer Sugarcane	Summer moong		
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Grand growth	Vegetative	Pod maturity		
Orissa				
Vegetable crops	Rice	Sugarcane	Moong	Maize
Flowering/fruitlet/harvesting	Grain maturity/harvesting	Vegetative	Vegetative	Sowing
Andhra Pradesh				
Rice	Sugarcane	Chillies		
Harvesting	Vegetative	Vegetative		
Karnataka				
Summer rice, Sunflower	Annual sugarcane	Early kharif Crops	Rabi Cotton	
Grain maturity/harvesting	Tillering	Early vegetative	End picking	
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 development/maturity	Grand growth
Sorghum	Cotton			
Sowing	Maturity/picking			
