



**Summary of Agromet Advisory Services for different States of the country**  
**Issued by**  
**Agricultural Meteorology Division, India Meteorological**  
**Department, Pune, India**

**Thursday, 10<sup>th</sup> May, 2007**

**(For the period 10<sup>th</sup> May to 14<sup>th</sup> May, 2007)**

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

**Monsoon Watch**

Southwest monsoon has set in over parts of southeast Bay of Bengal, Nicobar islands and Andaman Sea. The northern limit of monsoon passes through Lat. 5.0<sup>0</sup>N / Long. 86.0<sup>0</sup>E, Lat. 8.0<sup>0</sup>N / Long. 90.0<sup>0</sup>E, Car Nicobar, Lat. 11.0<sup>0</sup>N / Long. 96.0<sup>0</sup>E and Lat. 12.0<sup>0</sup>N / Long. 98.0<sup>0</sup>E. Conditions are favourable for further advance of southwest monsoon over some more parts of Andaman Sea and southeast Bay of Bengal during next 48 hrs.

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

**Punjab**

Rainfall occurred at many places on 9<sup>th</sup> May and weather remained dry on rest of the days.

Isolated duststorm / thunderstorms are likely over the State.

**Advisories**

- As rain occurred in Amritsar, Gurdaspur, Hoshiarpur, Ludhiana and Nawashahar districts and isolated duststorm / thunderstorms are likely over the State, apply light irrigation to **summer sunflower, sugarcane** and **Horticultural** crops in these districts. Apply irrigation in the remaining districts as mainly dry weather prevailed.
- Farmers are advised to complete harvesting of matured **wheat** crops. Harvested produce can be sun dried before taking them indoor / safer places.
- Complete the sowing of **cotton** as early as possible as late sowing may lead to increased attack of **bollworm**.

**Haryana**

Rainfall occurred at a few places on 9<sup>th</sup> May, isolated places on 7<sup>th</sup> May and weather remained mainly dry on 8<sup>th</sup> May.

Isolated duststorm / thunderstorm accompanied with squall is likely over the State.

**Warning:** Isolated thunder squall is likely over the State.

**Advisories**

- Weather remained mainly dry in most of the districts for the last two weeks and isolated duststorm / thunderstorm is likely over the State for the next three days, apply irrigation to **summer sunflower, sugarcane,** and **Horticultural crops**.
- Farmers are advised to complete harvesting of matured **wheat** crops immediately as isolated thunder squall is likely over the State.
- Complete the sowing of **cotton** as early as possible as late sowing may lead to increased attack of **bollworm**.

**Rajasthan**

Heat wave conditions continuously prevailed over some parts of the State. Duststorm / thundershowers occurred with hailstorm at isolated places in Ajmer, Jaipur and Udaipur divisions and weather was mainly dry in rest divisions of the State.

Isolated duststorm / thunderstorm accompanied with squall is likely over the State.

### Advisories

- **Heat wave conditions** prevailed over some parts of the State along with dust storm / thunder storm during last week. Under the circumstances, apply frequent irrigation to **moong** crop in view of prevailed heat wave conditions.
- After the harvest of *rabi* crops, summer ploughing may be undertaken in order to conserve moisture during summer showers and to control soil borne pests and diseases.
- Cutting of fodder may be undertaken at 45 days after sowing.
- Continue sowing of *desi* and **American cotton** in irrigated areas. Undertake seed treatment with chemicals before sowing. Select varieties from LHH-144, RG-8, RG-18, Bikaneri Narma, RS-810, RS-875, RST-9, Ganganagar Ageti, RHH-16, RS-2013 etc. for sowing.

### Uttar Pradesh

Weather was mainly dry in all divisions of U.P.

Isolated duststorm / thunderstorms with squall are likely over West U.P. Isolated rain / thundershowers are likely over East U.P. Rise in day temperatures are likely over East U. P.

### Advisories

- As mainly dry condition prevailed most of the districts in the State during last week and isolated duststorm / thunderstorm is likely over West Uttar Pradesh and isolated rain / thundershowers are likely over East U.P. for the next three days, apply irrigation to **summer maize, sunflower, pulses** and **vegetable** crops. Apply light irrigation in Allahabad, Bahraich, Balrampur, Faizabad, Ghazipur, Lucknow and RaiBareilly districts as there was excess rainfall during last week.
- To control **borer** insect in **sugarcane**, spray the solution of Endosulphon 35 EC @ 1.25 litre / ha in water.
- Continue harvesting of matured crops of **onion** and **garlic**.
- The blossoms of **Mango** (30-45 cm in length) are affected with **malformation** disease. Destroy it & to save the fruits spray Naphthalene Acetic Acid 15 ppm or 4 ml Planofix / 9 litres of water.
- Complete sowing of **summer sugarcane**. Field preparation and sowing of **maize** may be continued.

### Himachal Pradesh

Precipitation occurred at isolated places in the state.

Isolated rain / thundershower is likely over the state.

### Advisories

- As isolated rain / thundershowers are likely over the state for next three days, apply irrigation to **vegetables, onion** and early planted **potato**.
- Continue land preparation and nursery sowing and transplanting of **cauliflower** and **cabbage** in low and mid hills and planting of **potato**.
- As isolated thunder squall is likely over the state, complete harvesting of already matured crops of **wheat, barley** and **gram** immediately. **Wheat** is ready for harvest when grain will produce cracking sound while pressed between the teeth.
- There is mild chance of attack of powdery mildew in **vegetables**. If attack crosses economic threshold level, spray carbendazime 0.5 % to control the disease.
- There is mild chance of attack of purple blotch disease in **onion**. If attack crosses economic threshold level, spray mancozeb 0.25 % to control the disease.

## Uttarakhand

Very light to light rain was recorded at many places on 4<sup>th</sup>, 5<sup>th</sup> and 9<sup>th</sup> May and at a few places on 3<sup>rd</sup> May and moderate rain was recorded at isolated places on 7<sup>th</sup> May. Mainly dry weather prevailed during rest of the period. Sky remained partly cloudy to generally cloudy during the period except on 6<sup>th</sup> May when it was mainly clear.

Isolated rain / thundershowers are likely over the State.

**Warning :** Isolated thunder squall is likely over the State.

### Advisories

- As there was excess rainfall in Almora, Haridwar and Garhwal tehris during last week, apply light irrigation to the crops in these districts. There was no significant rainfall during last week in the remaining districts and isolated rain / thundershowers are likely over the State for next three days. Under the circumstances, apply irrigation to **mango, litchi, apple, potato** and **sugarcane** crops.
- Continue harvesting of matured crops of **wheat** before 13<sup>th</sup> May as there is possibility of cloudy weather from 13<sup>th</sup> evening onwards.
- Maintain cleanliness in the **orchards**. Continue mulching to conserve soil moisture and to prevent weeds in **apple** and **potato**.

## Jammu & Kashmir

Light to moderate rain / thundershowers with heavy falls at isolated places occurred at most places on 8<sup>th</sup> May. Light to moderate rain /thundershowers again occurred at a few places on 9<sup>th</sup> over J & K state. Weather remained mainly dry on 7<sup>th</sup> May over the State.

Isolated rain / thundershowers are likely over the State.

### Advisories

- There was no significant rainfall during last week and rain / thundershower is likely to occur only at isolated places for the next three days. Under the circumstances, apply irrigation to **wheat, vegetable** and **fruit** crops in Kashmir division.
- Continue harvesting of **wheat** at proper maturity stage in Jammu division. After the harvest of wheat, undertake sowing of **Dhaincha** in the fallow land.
- Undertake sowing of **maize** in mid and high altitude areas. Select varieties from GS-2, Vijay, Mansar, C-5 and C-8 for sowing.
- Undertake land preparation and sowing of **rice** in the nursery in Jammu and Kashmir divisions. Undertake seed treatment with *Azospirillum* before sowing. Select varieties from IET-1410, K-39, Ratna, PC-19, jaya, PR-8585, Basmati-370 and Ranbir Basmati for Jammu region and K39, Chenab, Jhelura, China 1039 and Shalimar rice I for Kashmir region.

## Delhi

Light to moderate rain occurred at most places on 7<sup>th</sup> May. Weather remained mainly dry on rest of the days.

Isolated duststorm / thunderstorm accompanied with squall is likely over the State.

### Advisories

- As there was no significant rainfall during last few weeks over the State and only isolated duststorm / thunderstorm is likely for next three days, apply irrigation to **vegetables**.
- Prepare land and perform sowing of **radish, chilli** and **arhar**.
- Use Pusa Chetki variety for sowing of **radish**.
- Select varieties from UPA - 120 and T 21 for sowing of **arhar**.
- Prepare land for nursery sowing of **rice**. Seed bed should be prepared of size of 10 m length and 1.25 m in width at 30 cm gap between beds. In each seed bed 30 kg cow dung / compost, 80 gm urea, 80 gm SSP and 40 gm MoP are to be applied. Well germinated seeds are to be sown @ 650 to 1000 gm per bed.

## Southern Region (AP, Tamilnadu, Karnataka and Kerala)

### Kerala

Rain / thundershowers occurred at a few places in the State during the period.

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

#### Advisories

- There was excess rainfall in most of the districts during last week except in Malappuram and Kozhikode districts and rain / thunder showers are likely at a few places over the State for the next three days. Under the circumstances, postpone irrigation to plantation crops viz., **coconut**, **arecanut**, **rubber** and **banana**. Apply irrigation in the above mentioned districts as there was no significant rainfall during last week.
- Continue harvesting of **puncha rice** on bright sunny days. Continue land preparation and sowing of **virippu rice** in the nursery. Undertake seed treatment with *Azospirillum* before sowing.
- Attack of **mahali disease** is reported in **arecanut**. Spray 1% Bordeaux mixture on a non rainy day to control the disease.
- Attack of **Rhinoceros beetle** is reported in **coconut**. Fill leaf axil with 25 gm Sevidol 8G and fine sand 200 g on a non rainy day to control the pest.
- Attack of **powdery mildew** is reported in **rubber**. Spray Wettable sulphur @ 0.2% or Carbendazim @ 0.05% on a non rainy day to control the disease.
- Attack of **pseudostem weevil** is reported in **banana**. In endemic area, first remove the outer sheath of all infested and uninfested plants and spray Quinalphos @ 0.05% or Chlorpyrifos @ 0.03% or Carbaryl @ 0.2% on a non rainy day. Spraying / drenching may be done on leaf axils, rhizome, surrounding soil and all the bore holes of pseudo stem made by larvae. Repeat the treatment after three weeks if infestation persists.
- Continue new planting of **tapioca**, **pepper**, **cashew** and **coconut** in view of realized summer showers.

### Tamilnadu

Rainfall occurred at one or two places over the State on 7<sup>th</sup>, 8<sup>th</sup> and 9<sup>th</sup> May.

Isolated rain / thundershowers are likely over the State.

#### Advisories

- **Heat wave conditions** prevailed over some parts of North Coastal Tamil Nadu during past 24 hours and likely to continue for the next 2-3 days. Under the circumstances, apply frequent irrigation to **sunflower**, **maize**, **sugarcane**, **cotton** and **groundnut** in view of continuous heat wave conditions.
- Start land preparation and sowing of **kuruvai rice** in nursery. Undertake seed treatment with *Azospirillum* before sowing.
- Undertake spraying of NAA @ 40 ppm in **cotton** to prevent flower dropping and to enhance boll setting.
- Monitor **early 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.

### Karnataka

On 7<sup>th</sup> May rainfall occurred at many places over South Interior Karnataka, few places over North Interior Karnataka and at isolated places over Coastal Karnataka. On 8<sup>th</sup> May rainfall occurred at isolated places over the State. On 9<sup>th</sup> May rainfall occurred at isolated places over Coastal Karnataka and South Interior Karnataka and mainly dry weather prevailed over North Interior Karnataka.

Isolated rain / thundershower is likely over the State.

#### Advisories

- Apply irrigation to **summer sugarcane** and **rice** as there was no significant rainfall except in Dakshin Kannada in Coastal Karnataka, Chamaraajanagara, Chikmagalur, Hassan, Kodagu, Kolar, Mandya and Mysore in South Interior Karnataka and Gadag and Koppal in North Interior Karnataka. Apply irrigation depending upon soil profile stored moisture in the above mentioned districts.

- Complete harvesting of **groundnut** and **sunflower** on bright sunny days.
- Monitor **sugarcane** for **wooly aphids** in Mysore, Mandya and Hassan districts and if the pest population crosses ETL, release *Dipha* sp, adopt wider spacing, inter-cropping with soyabean and pulses of short duration.
- Continue sowing of **kharif jowar**, **maize**, **groundnut** and **sunflower**. Undertake seed treatment with chemicals before sowing.

## Andhra Pradesh

Rain occurred at a few places over coastal Andhra Pradesh on 7<sup>th</sup> & 8<sup>th</sup> May and Rayalaseema on 4<sup>th</sup> May. Isolated rain occurred over coastal Andhra Pradesh from 3<sup>rd</sup> to 6<sup>th</sup> & 9<sup>th</sup> May and Telangana from 3<sup>rd</sup> to 5<sup>th</sup>, 7<sup>th</sup> & 9<sup>th</sup> May and over Rayalaseema on 2<sup>nd</sup> and 5<sup>th</sup> to 7<sup>th</sup> May. Weather was dry elsewhere over the State during the week.

Isolated rain / thundershowers are likely over the State.

### Advisories

- **Heat wave conditions** prevailed over some parts of Coastal Andhra Pradesh during past 24 hours and likely to continue for the next 2-3 days. As the crops have been harvested and nursery raising of **rice** is undertaken, there will be lesser crop damage.
- Continue summer ploughing after the harvesting of **rabi** crops in order to conserve moisture during summer showers.
- Continue land preparation and sowing of nursery for **kharif rice**.

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

### Assam

Light to moderate rain occurred at a few places on 7<sup>th</sup> May and at isolated places on 8<sup>th</sup> & 9<sup>th</sup> May over the State.

Rain / thundershowers are likely at many places over the State.

### Advisories

- As rain / thundershowers are likely at many places over the State, postpone irrigation to **vegetables**, **jute** and **maize**. Since **maize** crop is highly susceptible to water logging, provision for surface drainage should be made in the field.
- Maintain 3 – 5 cm water in field of **early ahu rice**.
- Mild incidence of **Brown Plant Hopper**, **Yellow stem borer** and **blast** and **sheath blight** diseases in **early ahu rice** is reported in a few localities.
- Monitor attack of **Brown Plant Hopper** and **blast** and **sheath blight** diseases in **early ahu rice**. If attack crosses economic threshold level, to control **Brown Plant Hopper** insecticides like Chloropyrifos 20 E.C. @ 1.5 ml per litre of water or Phosphamidon @ 1ml per litre of water is to be applied. For control of **Blast** diseases as soon as 1 or 2 spots on leaf are seen Hinosan 50 E.C. @ 1ml per litre of water or Blitox @ 4gm per litre of water is to be applied and spraying is to be continued at an interval of 10-15 days till the disease is controlled. For control of **sheath blight** diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.
- Apply plant protection measures after current spells of rain.
- Prepare land after current spells of rain and continue sowing of summer vegetables like **ladies finger**, **ridge gourd**, **cucumber** etc. and sowing of **jute** and **regular ahu rice** and planting of **sugarcane**.
- Plough land after current spells of rain and ladder 5 -6 times to obtain a fine seed bed for sowing of **jute**. In termite and cricket infested field the soil is to be treated with Malathion 5% dust @ 30 kg per hectare. Use seeds of varieties JRC 212, 321, 7447 etc. for sowing.
- Prepare seed bed of **regular ahu rice** of size 10 m length and 1.25 m in width at 30cm gap between beds. In each seed bed 30 kg cow dung / compost, 80 gm urea, 80 gm SSP and 40 gm Mop are to be applied. Well germinated seeds are to be sown @ 650 to 1000 gm per bed. Seed requirement for transplanting of 1 hectare of main field is 40 to 45 kg. 14 kg seed per bigha should be broadcasted for **broadcast regular ahu** after preparation of land properly.

- There is mild chance of attack of hairy caterpillar, smilopper, yellow mite and stem weevil in **jute**. If insect population exceeds economic threshold level, apply fenitrothion 50 EC @ 1 ml in one litre of water or endosulphan 35 EC @ 2 ml per litre of water after current spells of rain.

### **Arunachal Pradesh**

Light rain / thundershower occurred at a few places on 9<sup>th</sup> May & one or two places on 8<sup>th</sup> May.

Rain / thundershowers are likely at many places over the State.

#### **Advisories**

- As rain / thundershowers are likely at many places over the State for next three days, postpone irrigation to **summer vegetables, millet, maize, jhum paddy and ginger**.
- Complete transplanting of wet seeded (WRC) **rice** by this week.

### **Bihar**

Light to moderate rain occurred at a few places on 7<sup>th</sup> & 8<sup>th</sup> May.

Isolated rain / thundershowers are likely over the State. Rise in day temperatures are likely over the State.

#### **Advisories**

- As there was no significant rainfall in most of the districts over the State during last week and rain / thundershowers are likely only at a few places over the State, apply irrigation to **vegetables, summer maize, green gram and sesamum**.
- There is mild chance of infestation of **Red spider mite** in **vegetable** crops. If the infestation exceeds economic threshold level, spray Sulphur dust @ 3.0 Kg / ha or Dycofol @ 1 litre / ha.
- In **mango**, continue to give regular irrigation in mango orchards and if there is attack of **mealy bug or hopper**, spray with Carboryl @ 2 g / litre of water.

### **Jharkhand**

Weather remained mainly dry.

Isolated rain / thundershowers are likely over the State. Rise in day temperatures are likely over the State.

#### **Advisories**

- As there was no significant rainfall in most of the districts during last week and rain / thundershowers are likely only at isolated places over the State for the next three days, apply irrigation to **summer vegetables**.
- Maintain 3 – 5 cm water in the **boro rice** field.
- Apply regular irrigation in **mango & litchi**. To prevent from **powdery mildew** of small fruits in **Mango and Litchi**, spray sulfex @ 2 gm / litre of water.

### **Sikkim**

Sky remained generally cloudy during the period. Light to moderate rain occurred at many places on 4<sup>th</sup> and 7<sup>th</sup> to 9<sup>th</sup> May. Rainfall was scanty during the period.

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

**Warning:** Isolated thunder squall is likely over the State.

#### **Advisories**

- Epidemic infestation of **semilooper** has been reported in **maize**. Spray Trisophor @ 1 ml / litre on a non rainy day to control the pest and to minimize the damage.
- Rouge out **Chirkey** and **Foorkey** affected plants and destroy completely by burning.
- As there was no significant rainfall over the State during last week, apply irrigation to **large cardamom, orange, maize and ginger**.
- Make arrangements to prevent the crops from lodging due to squall.
- Undertake earthing up to keep the field weed free and application of fertilizers in **kharif vegetables, large**

cardamom, orange, maize and ginger on a non rainy day.

## West Bengal

During the said period very light with rather heavy rain at isolated places on 7<sup>th</sup>, very light to light rain at a few places with moderate rain at isolated places on 8<sup>th</sup>, very light to light rain at isolated places on 9<sup>th</sup> occurred over Sub- Himalayan West Bengal.

But moderate to heavy rain at isolated places on 7<sup>th</sup>, light rain at a few places with moderate rain at isolated places on 8<sup>th</sup>, very light to light rain at many places along with moderate to rather heavy rain at isolated places on 9<sup>th</sup> occurred over Gangetic West Bengal.

Weather was mainly dry elsewhere.

Rain / thundershowers are likely at a few places over Sub- Himalayan West Bengal and isolated rain / thundershowers are likely over rest of the State.

## Advisories

- As there was good amount of rain in **Bankura** and **Birbhum** Districts during last two weeks and in **24 Pargana (N)** and **Malda** districts during last week and rain / thundershowers are likely at a few places over sub Himalayan West Bengal and isolated rain / thundershowers are likely over rest of the State for next three days, apply light irrigation to **sugarcane**, **sesamum**, **groundnut**, **green gram** and early sown **jute** in these districts. Apply irrigation to the crops in remaining districts of the State to bring soil to its field capacity.
- Maintain 3 – 5 cm water in **boro rice** field wherever crops are at grain formation stage. Drain out excess water from the field 10 – 15 days before harvesting. Start harvesting of already matured crops on bright sunny days.
- Complete land preparation on a non-rainy day and planting of **sugarcane**. Select early maturing varieties form C.O.J. 7218, C.O. 62197, C.O. 87263 and medium maturing varieties form B.O.91, C.O. 62033, C.O. 7202, C.O. 7224, C.O. 1148, C.O. 87268, C.O.S. 776. etc. for planting of **sugarcane**. Set rate is 50 – 62.5 q / ha. Use top 1/3<sup>rd</sup> portion of the cane as a seed for best germination. Soak in water for 24 hours for better sprouting. Treat the setts in 100 gm Mithoxy Ethyl Mercuric chloride per 40 litres of water for 20 minutes and then dry in shade. Alternatively setts can be treated by Carbendazim 50% @ 1 gm / litre of water.
- Prepare land on a non-rainy day for sowing of **jute**. Plough the land thoroughly for 4 – 5 times followed by laddering. Apply compost manure @ 7.5 – 12.5 tonnes / ha. Apply N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O each @ 25 kg / ha also before last land preparation. Select improved variety from Shyamali, Sonali & Sobujsona etc. for *C. capsularis* and Chaitali, Basudev, Baisakhi, Nabin etc. for *C. olitorius* for sowing. Seed rate is 7.5 kg per ha for *C. capsularis* and 5 kg per ha for *C. olitorius*. Seeds may be treated with 1 gm carbendazime per kg of seeds before sowing.
- Undertake preparation of land for sowing of **aus rice**. Select varieties from HYVs like IET-826, CR- 126-42-1, IR-36, IET-2233, IET-1444 (Rosi), Culture-1 etc. Seed rate is 75-100 kg / ha in case of broadcasting and 62-75 kg / ha in case of row sowing. Treat the seeds with Crabendazim 50% @ 1 gm / kg seeds.

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

### Gujarat

Weather remained dry.

Mainly dry weather is likely over the State.

### Advisories

- As there was no significant rain during last few weeks in the State and mainly dry weather will prevail for next three days, apply irrigation to **sugarcane**, **summer groundnut** and **summer bajra** to bring the soil moisture to field capacity.
- Maintain 3 – 5 cm water in the **rice** field.
- Continue intercultural operation in **sugarcane**, **rice** and **summer bajra** to keep the field weed free.

### Chhattisgarh

Isolated rain / thundershower is likely to occur over the state.

## Advisories

- As there was no significant rain during last few weeks in the State and isolated rain / thundershower is likely to occur over the state for next three days, apply irrigation to sugarcane, vegetables, sunflower, summer groundnut, sesamum and green gram crops.
- Maintain 3 – 5 cm water in summer rice field.
- Apply 75 kg N / ha as top dressing at 45 days after planting of sugarcane.
- Start harvesting of already matured crops of sunflower and groundnut.
- Prepare land and continue sowing of maize.

## Maharashtra

Light to moderate rain occurred at isolated places in South Madhya Maharashtra, South Konkan, Marathwada & West Vidarbha on 7<sup>th</sup> and in South Madhya Maharashtra & Marathwada on 8<sup>th</sup> May. Mainly dry weather prevailed over rest of the State.

Isolated rain / thundershowers are likely over Vidarbha. Mainly dry weather is likely over the rest region.

## Advisories

- As there was no significant rain during last week in the State and isolated rain / thundershower over Vidarbha and mainly dry weather over the rest region are likely for next three days, apply irrigation to sugarcane (Pre-seasonal), summer groundnut, summer sunflower, summer bajra, summer maize, sugarcane (Suru) & early sown irrigated cotton.
- Continue harvesting of matured crop of groundnut in Sindhudurga district.
- Maintain 3 – 5 cm water in summer rice field. Third dose of 40 kg Nitrogen / ha may be applied after 60 days from transplanting in Vidarbha. Use 1 kg Neem cake powder in 6 kg urea at the time of above application. Water may be drained out before fertilizer application & maintain water level after 2 days.
- Drain out water from summer rice field 10 – 15 days before harvesting of matured crops. Continue harvesting of matured crops in Sindhudurga district.
- A dose of 136 kg Nitrogen, 85 kg Phosphorus & 85 kg Potash / ha may be applied after earthing up in Sugarcane (Preseasonal).
- Apply last dose of 100 kg Nitrogen & 55 kg Phosphorus / ha if sufficient water is available & undertake earthing up in Sugarcane (Suru).
- Mild incidence of White woolly aphid in Pune & Aurangabad division in Sugarcane (Preseasonal) and sap sucking insects and tikka disease in Latur in summer groundnut is reported.
- Monitor the crop for white woolly aphids in Sugarcane (Preseasonal) & if exceeds economic threshold level, for effective control spray 500 ml endosulphan 35 % + 1000 ml metasystox & 500 ml Stikar or 500 gm detergent powder / ha in 500 liters of water. For the biological control of white woolly aphids, release 25000 larvae of *Krysoperla Carnea* or *Dipha Aphidivhora* / ha as predator after 15 days from the above dose.
- Avoid spraying in summer groundnut in Latur Division as the crop is in pod maturity stage.
- This is the time for sowing of irrigated Cotton. Select a variety from high yielding varieties like LRH-5166, JLH-168 & hybrid varieties like phule-492, phule-388, Sankar-6 & 10, PKV-4 & 5. Seeds may be treated with 250 gm Azotobacter / 10 kg seeds before sowing. Sowing may be done at 90 X 90 cm in medium, at 120 X 90 cm distance in black cotton soil for hybrid variety and at 90 X 90 cm for high yielding variety. 20 kg Nitrogen, 50 kg P<sub>2</sub>O<sub>5</sub> & 50 kg K<sub>2</sub>O / ha may be applied at the time of sowing.

## Madhya Pradesh

Rainfall occurred at isolated places in South East M.P. on 8<sup>th</sup> May and West M.P. on 8<sup>th</sup> & 9<sup>th</sup> May. Light rain occurred at isolated places in South East & West M.P. on 7<sup>th</sup> May. Mainly dry / dry weather prevailed over rest of the State on remaining days.

Isolated dust storm / thunderstorm is likely over West Madhya Pradesh. Isolated rain / thundershowers are likely over the rest region of the State.



## Advisories

- Apply irrigation to **summer moong** and **sugarcane** as dry weather prevailed over the State during last week and dust storm / thunderstorm is likely to occur at isolated places over west Madhya Pradesh for the next three days.
- Monitor **sugarcane** for **Chempa**, **Pyrilla** and **scale** insects and if the pests population crosses ETL, spray Malathion 50 EC or Endosulphan 35 EC @ 1.25 litres / ha to control the pests.

## Orissa

Rain fall occurred at most places over the State on 9<sup>th</sup> May, at a few places on 8<sup>th</sup> May & at isolated places on 7<sup>th</sup> May.

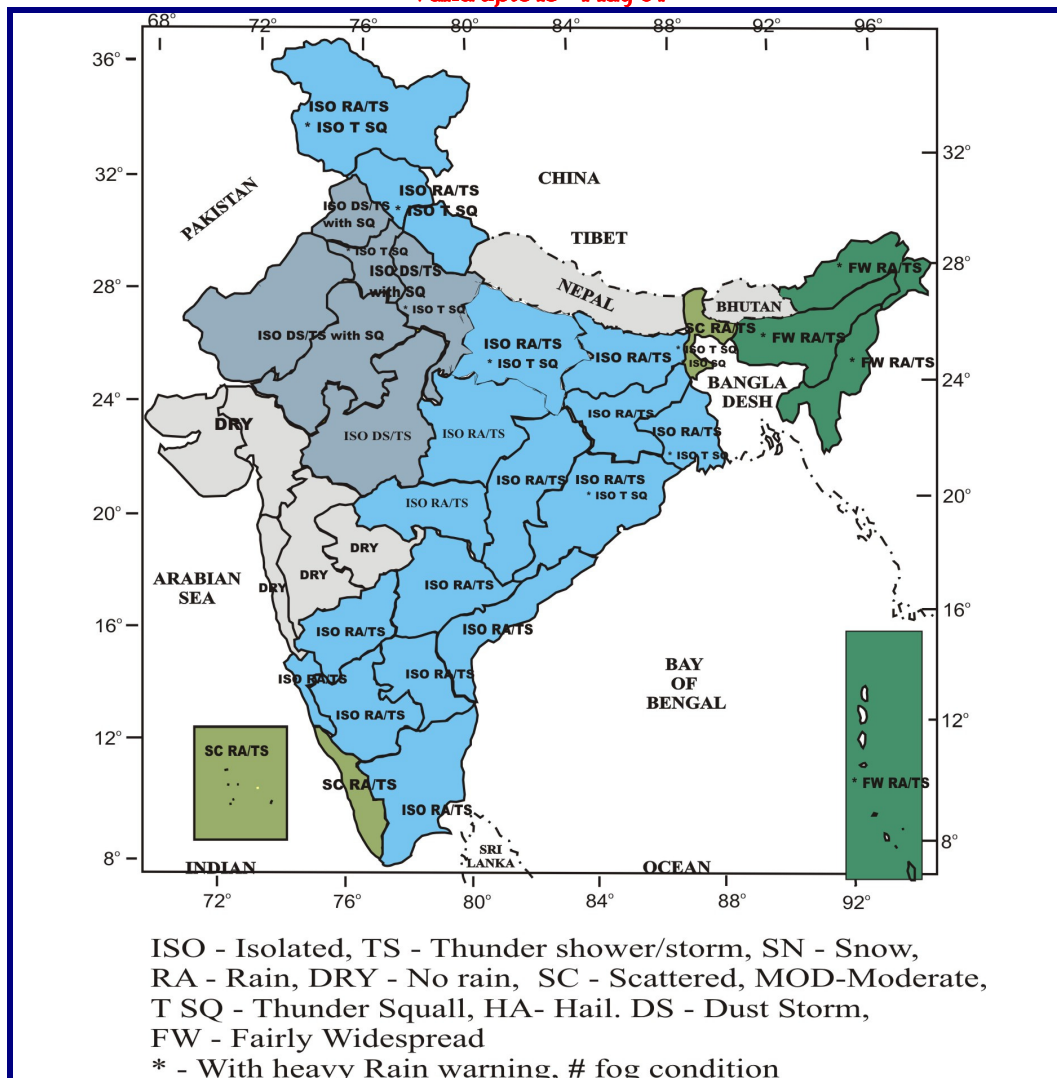
Isolated rain / thundershowers are likely over the State. Rise in day temperatures are likely over the State.

**Warning:** Isolated thunder squall is likely over north Orissa.

## Advisories

- As there was excess rainfall in Angul, Bhadrak, Cuttack, Gajapati, Dhenkanal, Jagatsinghpur, Kalahandi, Kandhamal, Jajpur, Khurda, Malkangiri, Nayagarh, Puri and Rayagada districts and only isolated rain / thundershowers are likely over the State for next three days, apply light irrigation to **vegetables**, **sugarcane**, **early sown summer groundnut** and **pulses** in these districts. Apply irrigation to the crops in remaining districts.
- Harvest the matured crops of **Dalua rice**.
- Continue land preparation and sowing of **jute**. Sow the jute seeds of variety JRO 524.

## Forecast Map Valid upto 13<sup>th</sup> May 07



## *Salient weather features for the week ending 09/05/07*

### **CHIEF FEATURES:**

- A Depression formed over the north Andaman Sea on 3<sup>rd</sup> evening and crossed Myanmar coast on 5<sup>th</sup>.
- The country experienced widespread thundershowers towards the end of the week.

### **WEEKS RAINFALL:**

Week's rainfall was excess in Andaman & Nicobar Islands, Orissa, Jharkhand, east Uttar Pradesh, Uttaranchal, Haryana, Punjab, Jammu & Kashmir, west Madhya Pradesh, Chattisgarh, Andhra Pradesh, Tamil Nadu, interior Karnataka and Kerala; normal in west Uttar Pradesh, Himachal Pradesh and coastal Karnataka; deficient in Nagaland-Manipur-Mizoram-Tripura, West Bengal & Sikkim, Bihar and Vidarbha. It was scanty over the rest of the country outside west Rajasthan, Gujarat state and Konkan & Goa where there was no rain.

### **SEASONS RAINFALL (01-03-2007 TO 09-05-2007):**

Season's rainfall was excess in Andaman & Nicobar Islands, Uttar Pradesh, Haryana, Punjab and west Rajasthan; normal in West Bengal & Sikkim, Jharkhand, Bihar, Uttaranchal, Himachal Pradesh, Jammu & Kashmir, east Rajasthan, Tamil Nadu, coastal Karnataka and Kerala. It was deficient over the rest of the country outside Gujarat state, Konkan & Goa, Madhya Maharashtra, Marathwada and Lakshadweep where it was scanty.

### **TEMPERATURE:**

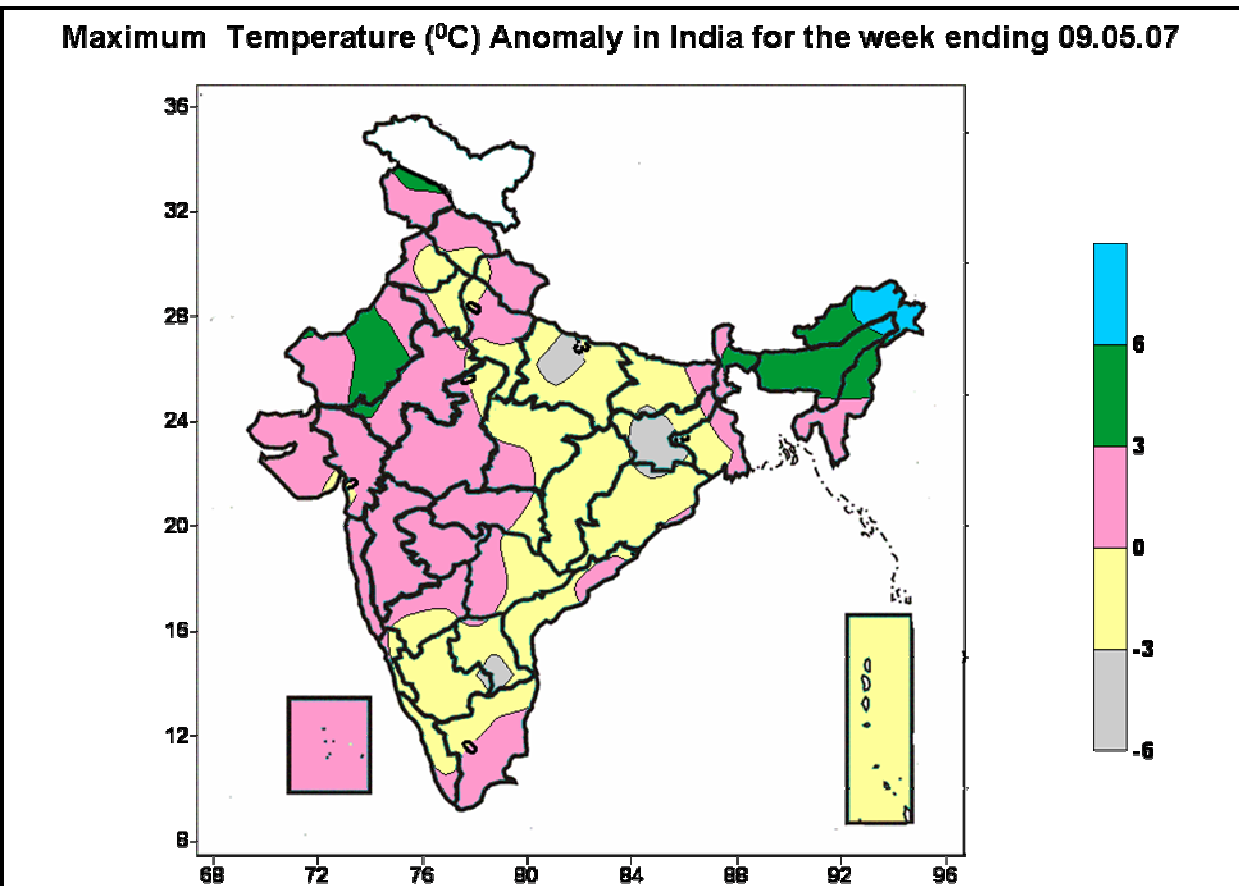
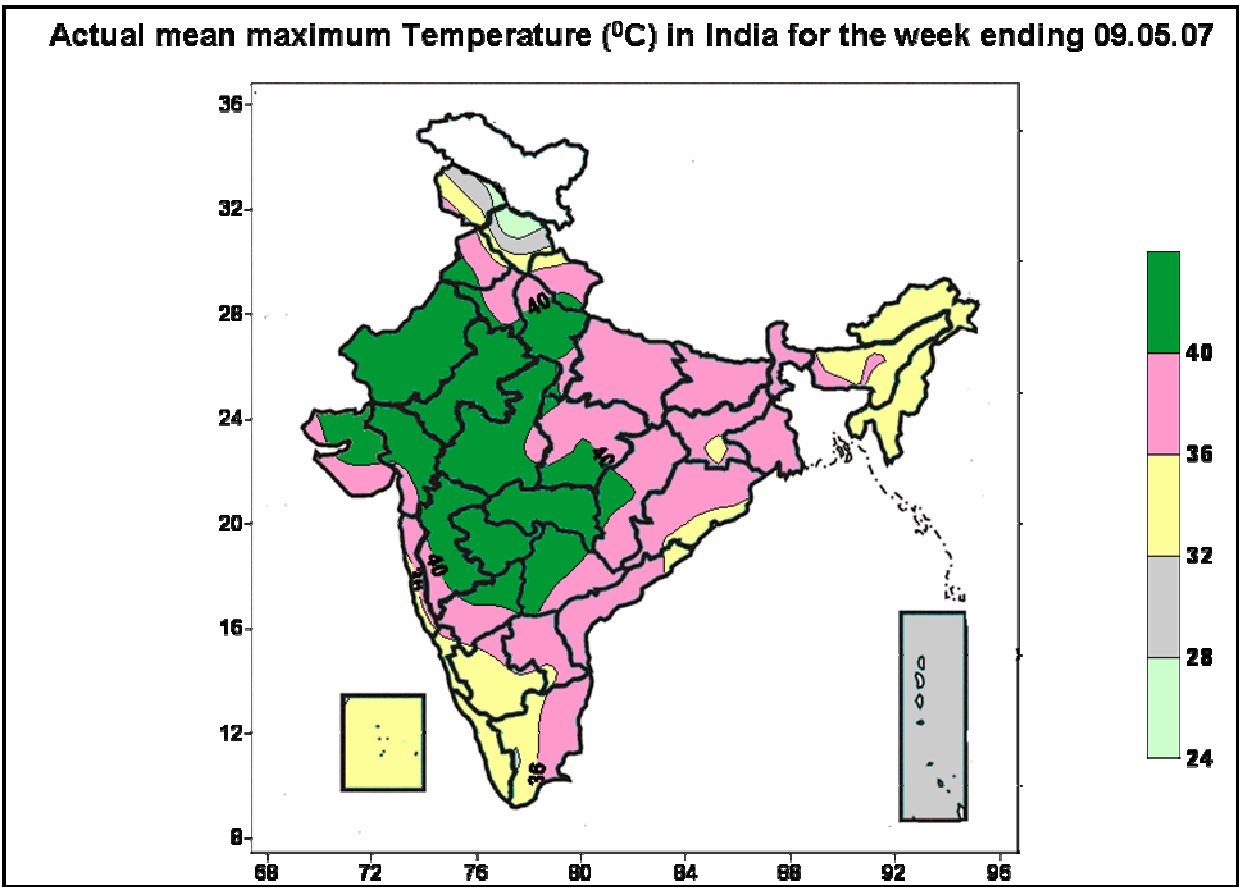
**Heat wave conditions prevailed on 1 day in most parts of Rajasthan and north Madhya Maharashtra; on 1 to 3 days in some parts of Rajasthan and Madhya Maharashtra and on 1 to 4 days at isolated places in Bihar, Jammu & Kashmir, Rajasthan, Gujarat Region, Madhya Maharashtra and Vidarbha. Hot day conditions prevailed on 1 day in most parts of west Rajasthan; on 1 day in some parts of east Rajasthan and at isolated places on 1 day each in Haryana, east Rajasthan, east Madhya Pradesh and Marathwada.** Day temperatures were markedly above normal on 4 to 6 days in Arunachal Pradesh and Assam & Meghalaya and on 1 to 2 days in Sub-Himalayan West Bengal & Sikkim and Kashmir; appreciably above normal on 3 to 5 days in Nagaland-Manipur-Mizoram-Tripura, Sub-Himalayan West Bengal & Sikkim and Rajasthan and on 1 to 2 days in Assam & Meghalaya, Kashmir, west Madhya Pradesh, Madhya Maharashtra, Tamil Nadu and north interior Karnataka and were below normal on 3 to 4 days in Rajasthan and Saurashtra & Kutch and on 1 to 2 days in Nagaland-Manipur-Mizoram-Tripura, Sub-Himalayan West Bengal & Sikkim, Bihar, Punjab, Kashmir, Madhya Pradesh, Vidarbha, coastal Andhra Pradesh, Telangana and Tamil Nadu. They were appreciably to markedly below normal on 1 to 3 days in Gangetic West Bengal, Orissa, Jharkhand, Bihar, Uttar Pradesh, Uttaranchal, Haryana, Jammu, Telangana and south interior Karnataka and were below normal on 3 to 5 days in Orissa and Jharkhand and on 1 to 2 days in west Uttar Pradesh, Uttaranchal, Punjab, Himachal Pradesh, Jammu, Gujarat Region, Madhya Maharashtra, coastal Andhra Pradesh, Telangana and south interior Karnataka.

### **WEATHER AND ASSOCIATED SYNOPTIC FEATURES:**

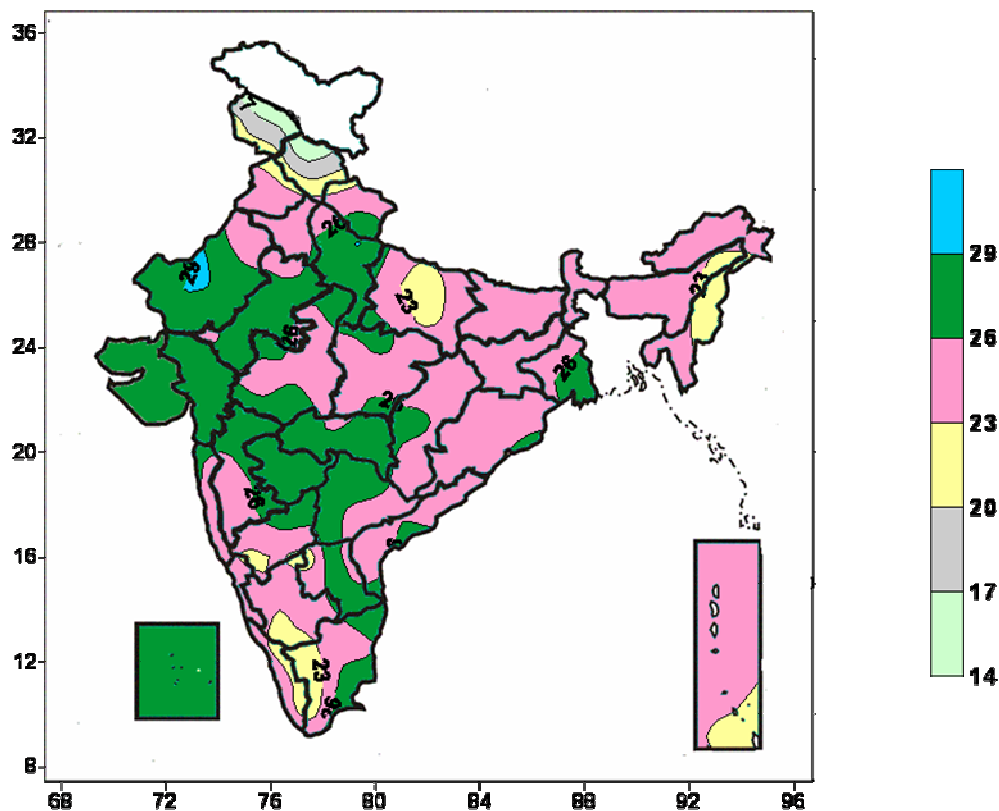
(1) Last week's low pressure area became well marked over the north Andaman Sea and neighbourhood on 3<sup>rd</sup> morning and subsequently concentrated into a Depression in the evening. It lay centred at: 1730 hrs. IST of 3<sup>rd</sup> near Lat. 13.5<sup>o</sup> N/ Long. 93.0<sup>o</sup> E; 0830 hrs. IST of 4<sup>th</sup>, near Lat. 14.5<sup>o</sup> N/ Long. 93.5<sup>o</sup> E; 1730 hrs. IST of 4<sup>th</sup>, near Lat. 15.5<sup>o</sup> N/ Long. 93.5<sup>o</sup> E and at 0230 hrs. IST of 5<sup>th</sup>, near Lat. 16.0<sup>o</sup> N/ Long. 94.0<sup>o</sup> E, close to Arakan coast. Moving in a northeasterly direction, it crossed Arakan coast in the morning hours of 5<sup>th</sup>; weakened into a well marked low pressure area over central Myanmar and subsequently became unimportant in the same evening. (2) The trough/ wind discontinuity at 0.9 km a.s.l. extended from: southeast Rajasthan to Kerala on 3<sup>rd</sup>; west Madhya Pradesh to south Tamil Nadu on 4<sup>th</sup> & 5<sup>th</sup>; Vidarbha to south Tamil Nadu on 6<sup>th</sup>; Orissa to south Tamil Nadu on 7<sup>th</sup> and became less marked on 8<sup>th</sup>. (3) The upper air cyclonic circulation over Jharkhand and adjoining areas persisted there on 4<sup>th</sup> and became less marked on 5<sup>th</sup>. (4) An upper air cyclonic circulation extending upto mid tropospheric levels lay over east Uttar Pradesh and neighbourhood on 5<sup>th</sup> & 6<sup>th</sup>; Bihar and neighbourhood on 7<sup>th</sup>, Jharkhand and adjoining areas on 8<sup>th</sup> and became less marked on 9<sup>th</sup>. (5) Another upper air cyclonic circulation extending upto 1.5 km a.s.l. lay over Haryana and neighborhood on 8<sup>th</sup> and over Haryana and adjoining west Uttar Pradesh on 9<sup>th</sup>. (6) Yet another upper air cyclonic circulation lay between 3.1 & 5.8 km a.s.l. over east Uttar Pradesh and neighbourhood on 8<sup>th</sup> & 9<sup>th</sup>. (7) An upper air cyclonic circulation extending upto mid tropospheric levels lay over north Orissa and neighbourhood on 9<sup>th</sup>. (8) Last week's western disturbance persisted over Jammu & Kashmir and neighbourhood upto 6<sup>th</sup> and moved away northeastwards on 7<sup>th</sup>. (9) A fresh western disturbance as an upper air cyclonic circulation extending upto 3.6 km a.s.l. lay over north Pakistan and neighbourhood on 6<sup>th</sup>, Jammu & Kashmir and adjoining north Pakistan on 7<sup>th</sup> and over Jammu & Kashmir and neighbourhood on 8<sup>th</sup> & 9<sup>th</sup>.

Heavy rain occurred on 1 to 3 days in Andaman & Nicobar Islands, West Bengal & Sikkim, east Uttar Pradesh, Rayalaseema, north interior Karnataka and Kerala. Rain or thundershowers occurred at most places on 7 days in Andaman & Nicobar Islands and on 1 day each in Orissa, Himachal Pradesh and Jammu & Kashmir; at many places on 1 to 3 days in West Bengal & Sikkim, Karnataka, Kerala and Lakshadweep; at a few places on 1 to 3 days in Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, West Bengal & Sikkim, Orissa, Jharkhand, Bihar, east Uttar Pradesh, Uttaranchal, Haryana, Himachal Pradesh, Jammu & Kashmir, coastal Andhra Pradesh, Rayalaseema, Tamil Nadu, coastal & south interior Karnataka and Kerala and at isolated places on 3 to 5 days in Assam & Meghalaya, West Bengal & Sikkim, Orissa, Jharkhand, Uttar Pradesh, Haryana, Punjab, Himachal Pradesh, Jammu & Kashmir, west Madhya Pradesh, Marathwada, Chattisgarh, Andhra Pradesh and Tamil Nadu and on 1 to 2 days in Nagaland-Manipur-Mizoram-Tripura, Bihar, Uttaranchal, east Rajasthan, east Madhya Pradesh, Madhya Maharashtra, Vidarbha, Karnataka, Kerala and Lakshadweep.

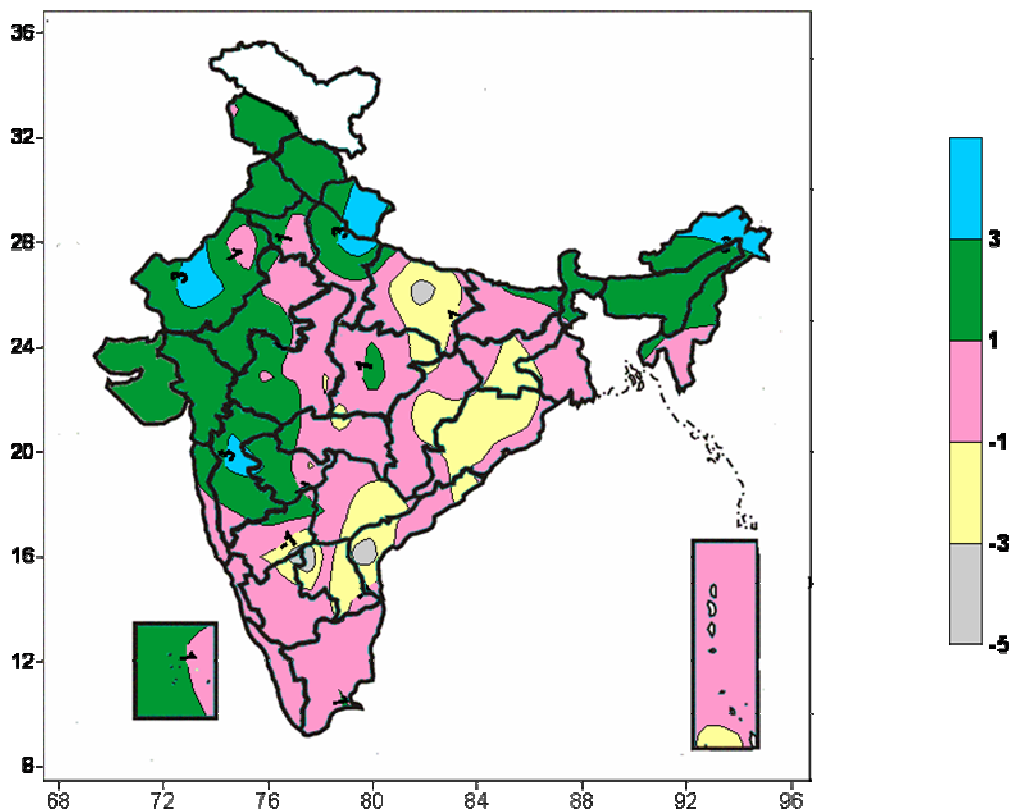
## Contour maps for the week ending 9<sup>th</sup> May, 2007



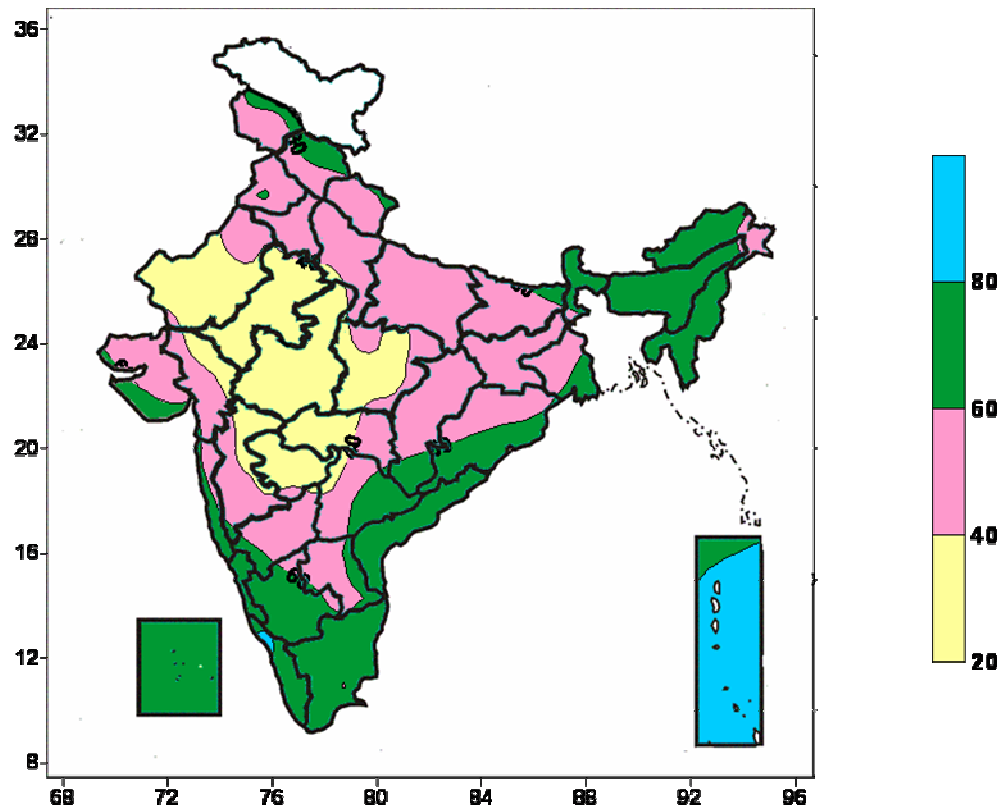
**Actual mean Minimum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 09.05.07**



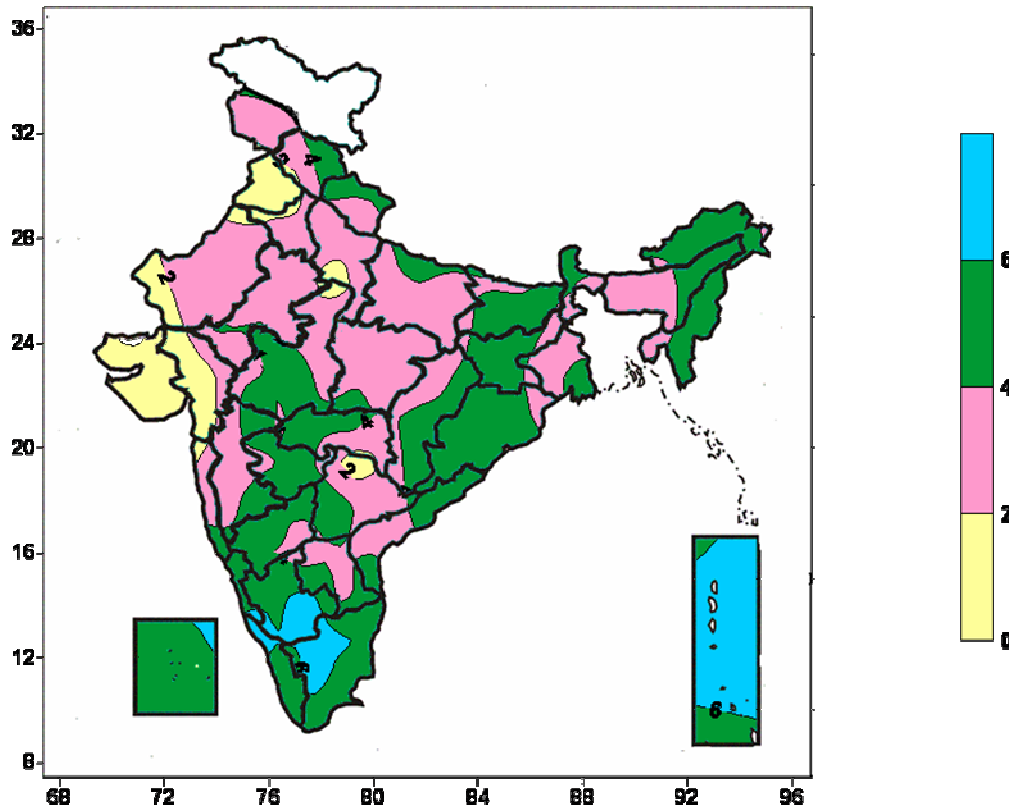
**Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 09.05.07**



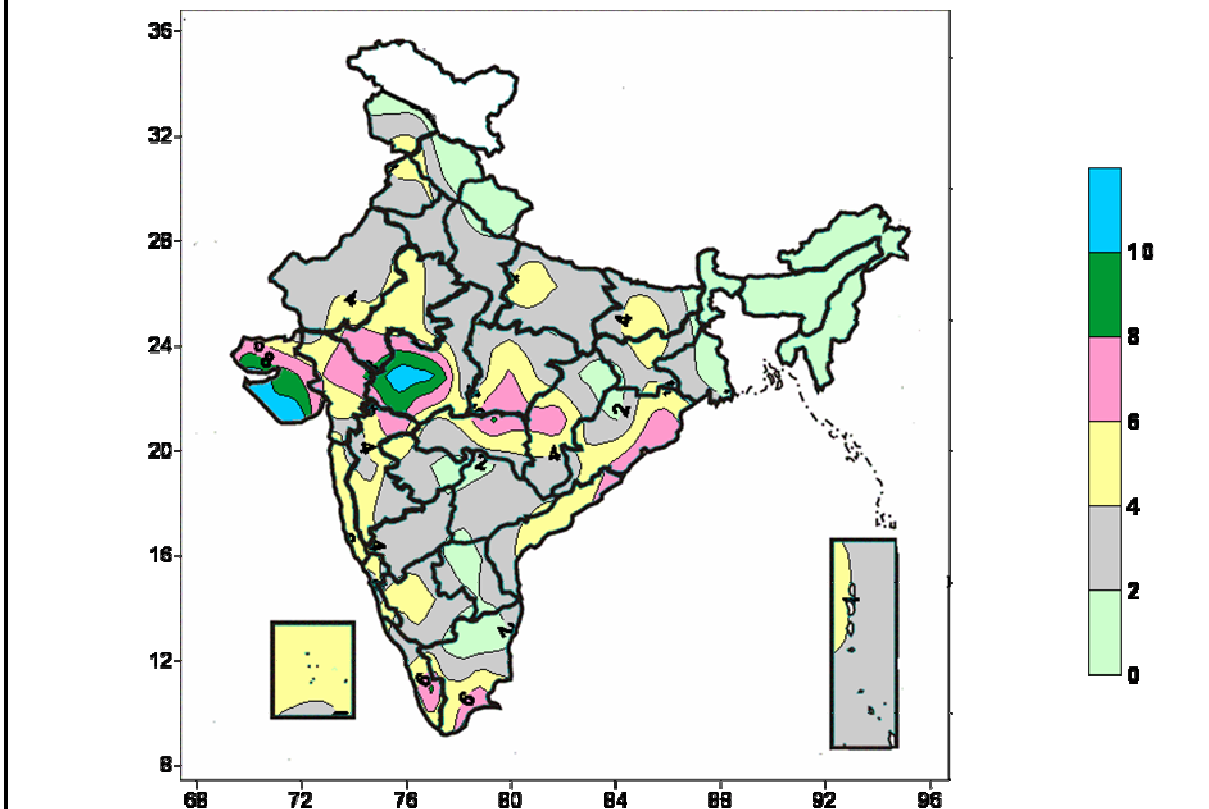
Relative humidity (%) over India for the week ending 09.05.07



Cloud amount (okta) over India for the week ending 09.05.07



Wind speed (knots) over India for the week ending 09.05.07



## Desert Locust Forecasting



Rainfall (mm)							
Station Name	03.05.07	04.05.07	05.05.07	06.05.07	07.05.07	08.05.07	09.05.07
Amritsar	-	3.0	-	-	-	-	4.8
Barmer	-	-	-	-	-	-	-
Sriganganagar	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-
Kota	-	-	-	-	-	-	-
Deesa	-	-	-	-	-	-	-
Churu	-	-	-	-	0.1	-	-

Temperature (degree Celcius)							
Station Name	03.05.07	04.05.07	05.05.07	06.05.07	07.05.07	08.05.07	09.05.07
Amritsar	33.0	28.0	30.0	31.0	32.0	31.5	-
Barmer	35.0	-	35.5	37.5	37.5	36.0	-
Sriganganagar	35.0	-	33.0	34.0	-	35.5	-
Jaisalmer	34.0	-	34.5	37.0	-	35.5	-
Kota	36.0	-	36.5	34.5	36.0	37.5	-
Deesa	33.5	-	33.5	33.5	34.5	33.5	-
Churu	-	-	-	-	-	-	-

There is mild chance of locust infestation in Rajasthan and the adjoining areas during this week. In **India**, ground teams treated gregarizing hoppers, fledglings and a mature swarm west of Jaisalmer near the **Pakistan** border. All efforts should be made to monitor the developing and potentially dangerous situation closely and carefully.

## CROP – STATE – STAGE

### Delhi

<b>Vegetables</b>	<b>Early sown summer vegetable crops</b>	<b>Rice</b>	<b>Arhar</b>	
Sowing	Vegetative/Flowering	Nursery preparation	Land preparation/Sowing	

### Haryana

<b>Early sown Sugarcane</b>	<b>New Sugarcane</b>	<b>Oilseeds</b>	<b>Horticultural crop</b>	<b>Wheat</b>
Vegetative	Sowing	Vegetative/Flowering	Vegetative	Harvesting
<b>Cotton</b>	<b>Paddy</b>			
Sowing	Land preparation/Sowing			

### Himachal Pradesh

<b>Wheat</b>	<b>Summer vegetables (Cauliflower, Cabbage in low and mid hills)</b>	<b>Vegetables (Tomato, brinjal, ladies finger)</b>	<b>Gram</b>	<b>Barley</b>
Harvesting (low hills) Maturity (mid hills)	Nursery sowing /Transplanting	Flowering/ fruiting / harvesting	Harvesting (low hills) Pod Maturity (mid hills)	Harvesting (low hills) Maturity (mid hills)
<b>Onion</b>	<b>Potato</b>	<b>Early sown Potato</b>	<b>Apple</b>	
Bulb development/Maturity	Planting	Sprouting/Early vegetative	Fruit development	

### Jammu & Kashmir

<b>Vegetable crops</b>	<b>Brown Sarson</b>	<b>Wheat (in Kashmir division)</b>	<b>Pea/Lentil/ Mustard</b>	<b>Wheat (in Jammu)</b>
Vegetative- in Kashmir Division	Seed formation – in Kashmir Division	Grain formation / development	Harvesting	Harvesting
<b>Fruit crops</b>	<b>Summer mash and moong</b>	<b>Maize/ Rice</b>		
Plantation	Vegetative (Jammu div.)	Sowing (Kashmir div.)		

### Punjab

<b>Sugarcane</b>	<b>Sunflower</b>	<b>Horticultural crop</b>	<b>Cotton</b>	<b>Wheat</b>
Vegetative	Flowering	Vegetative	Sowing	Late Harvesting
		<b>Paddy</b>		
		Land preparation/Sowing		

### Rajasthan

<b>Zaide Moong</b>	<b>Zaide Fodder</b>	<b>Early sown Cotton</b>	<b>Cotton</b>	
Flowering	Vegetative	Germination / seedling	Sowing – in some areas	

### Uttar Pradesh

<b>Sugarcane</b>	<b>Winter Vegetables</b>	<b>Summer Vegetables</b>	<b>Sunflower</b>	<b>Mango</b>
Early vegetative	Maturity/ harvesting stage	Early vegetative	Early vegetative	Fruit setting
<b>Rabi Pulses (Urad, Moong &amp; Lobia)</b>	<b>Maize</b>	<b>Bajra</b>	<b>Wheat / Barley</b>	
Early vegetative	Early vegetative	Early vegetative	Harvesting	

### Uttarakhand

<b>Potato</b>	<b>Mango/Litchi/ Apple</b>	<b>Wheat</b>	<b>Sugarcane</b>	
Vegetative growth	Fruit setting/Fruit development	Maturity/ Harvesting	Vegetative	

### Assam

<b>Summer vegetables</b>	<b>Early sown Summer vegetables</b>	<b>Early Ahu rice</b>	<b>Boro Rice</b>	<b>Maize</b>
Sowing	Germination/ vegetative/Flowering/Fruiting	Tillering	Harvesting	Early vegetative/Vegetative
<b>Regular Ahu Rice</b>	<b>Sugarcane</b>	<b>Jute</b>	<b>Early sown Jute</b>	
Nursery preparation and Direct sowing	Land preparation and Sowing	Land preparation/ Planting	Germination/Early vegetative	

### Arunachal Pradesh

<b>Summer vegetables</b>	<b>Ginger</b>	<b>Millet</b>	<b>Jhum Paddy</b>	<b>Maize</b>
Vegetative	Rhizome formation	Vegetative	Vegetative	Vegetative

<b>WRC Rice</b>	<b>Early sown WRC Rice</b>			
Transplanting	Early vegetative			

**Bihar**

<b>Summer Vegetables</b>	<b>Boro Summer Rice</b>	<b>Wheat</b>	<b>Green Gram / Black gram</b>	<b>Summer Maize</b>
Vegetative	Flowering	Harvesting	Flowering / pod formation	Vegetative
<b>Mango &amp; Litchi</b>	<b>Sesamum</b>	<b>Sugarcane</b>	<b>Early sown Sugarcane</b>	
Fruiting	Flowering/ pod formation	Planting	Seedling/Early vegetative	

**Jharkhand**

<b>Boro rice</b>	<b>Summer vegetables</b>			
Flowering	Vegetative			

**Sikkim**

<b>Maize</b>	<b>Orange</b>	<b>Vegetables</b>	<b>Large Cardomom</b>	<b>Ginger</b>
Vegetative	Fruiting	Vegetative	Flowering	Vegetative

**West Bengal**

<b>Boro rice</b>	<b>Aus rice</b>	<b>Sesamum</b>	<b>Groundnut</b>	<b>Green gram</b>
Grain formation / grain maturity	Land preparation / sowing	Vegetative / flowering / pod formation	Pod formation/Maturity	Flowering / pod formation
<b>New Crop Sugarcane</b>	<b>Early sown Sugarcane</b>	<b>Jute</b>	<b>Early sown Jute</b>	
Planting	Early vegetative/ Vegetative	Land preparation / sowing	Germination / early vegetative	

**Chattisgarh**

<b>Sugarcane</b>	<b>Vegetables (Tomato, chilli, brinjal)</b>	<b>Summer Vegetables</b>	<b>Sunflower</b>	<b>Groundnut</b>
Vegetative	Fruiting / harvesting	Vegetative/Flowering/Fruiting	Seed formation/Seed maturity	Seed formation/Seed maturity
<b>Summer sesamum</b>	<b>Green Gram</b>	<b>Summer rice</b>	<b>Maize</b>	
Vegetative / flowering/Capsule formation	Flowering/Pod formation	Flowering/Grain formation	Sowing	

**Gujarat**

<b>Sugarcane</b>	<b>Rice</b>	<b>Summer Groundnut</b>	<b>Summer Bajra</b>	
Vegetative	Flowering/Milk	Pegging/Pod formation	Flowering/Milk	

**Maharashtra**

<b>Sugarcane Preseasonal (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha &amp; Konkan)</b>	<b>Summer Rice (Konkan, Vidarbha &amp; Kolhapur dist.)</b>	<b>Summer Sunflower (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Summer Bajra (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>
Early vegetative/active growth	Pegging /Pod formation- in Pune, Kolhapur, Nashik, Amravati, Nagpur & Aurangabad , Pod maturity in Latur, Thane, Raigad & Ratnagiri & Pod maturity/Harvesting in Sindhudurga district)	Flag leaf initiation/Panicle initiation - in Vidarbha. Flowering/Grain formation in Kolhapur . Grain maturity in Thane, Raigad, & Ratnagiri dist. Grain maturity/Harvesting in Sindhudurg dist.	Head formation (Seed maturity in Latur & Amravati Division )	Grain formation/Grain maturity
<b>Summer Maize (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)</b>	<b>Irrigated cotton (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>		
Cob formation/Cob maturity	Early vegetative	Germination/Early vegetative		

**Madhya Pradesh**

<b>Summer moong and sugarcane</b>				
Vegetative				



<b>Orissa</b>				
<b>Summer Vegetables</b>	<b>Dalua Rice</b>	<b>Summer pulses</b>	<b>Sugarcane</b>	<b>Jute</b>
Early vegetative	Grain maturity / harvesting	Vegetative	Vegetative	Field preparation and Sowing
		Summer Groundnut	Early sown Summer Groundnut	
		Field preparation and Sowing	Early vegetative	

**Andhra Pradesh**

		<b>Kharif rice</b>		
		Land preparation and nursery sowing		

**Karnataka**

<b>Sugarcane (Ratoon crop)</b>	<b>Sunflower</b>	<b>Summer groundnut</b>	<b>Summer rice</b>	<b>Kharif Jowar/Maize/Groundnut/Sunflower</b>
Vegetative	Harvesting	End Harvesting	Grain development/Maturity	Land preparation/Sowing

**Kerala**

<b>Rubber</b>	<b>Puncha rice</b>	<b>Virippu rice</b>	<b>Tapioca/ Cashew/ Pepper</b>	
Tapping	Harvesting	Raising nursery	New Planting	

**Tamil Nadu**

<b>Rice (Kuruvai)</b>	<b>Sunflower</b>	<b>Cotton</b>	<b>Rice fallow Pulses (Blach gram and Green gram)</b>	<b>Oilseeds (Groundnut)</b>
Nursery raising	Flowering / seed / pod formation	Flowering / boll formation	Harvesting	Flowering / seed / pod formation
<b>Summer gingelly /Maize</b>	<b>Sugarcane(Early and Mid season)</b>			
Vegetative	Vegetative			

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