



# *Summary of Agromet Advisory Services for different States of the country*

Issued by

## **Agricultural Meteorology Division, India Meteorological Department, Pune, India**

Thursday, 8<sup>th</sup> May, 2008

(For the period 8<sup>th</sup> May to 12<sup>th</sup> May, 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 likely over the State.

##### **Advisories**

- As there was no significant rainfall in most of the districts of the State during last week and isolated rain/thundershowers likely over the State, apply irrigation to the standing crops.
- Monitor the sugarcane crop for thrips and pyrilla & if exceeds economic threshold level, for effective control spray 350 ml Endosulfan 50 EC in 600 liter of water/acre.
- Apply 15 kg Nitrogen/ha in early sown sunflower hybrids.
- Continue sowing of summer moong and mash.
- Harvesting of wheat may be continued as weather remain dry for next three days.
- Continue sowing of radish.

##### **Haryana**

- **Isolated** duststorm/thunderstorm is likely over Haryana.

##### **Advisories**

- As there was no significant rainfall in most of the districts of the State during last week and isolated duststorm/thunderstorm is likely over the State, apply irrigation to sugarcane, oilseeds, pulses, and Horticultural crops.
- Monitor the sugarcane crop for thrips and pyrilla & if exceeds economic threshold level, for effective control 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 a few places in all the divisions of the State.
- **Isolated** duststorm/thunderstorm is likely over Rajasthan.

### Advisories

- As there was no significant rainfall during last week, 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.

### Uttar Pradesh

- **Isolated** rain/thundershower likely over the East U.P
- **Mainly dry weather** is likely over the West U.P

### Advisories

- As there was no significant rainfall in the State and no significant rainfall is likely over the State for the next three days, apply irrigation to vegetable, summer pulses and sunflower crops.
- Harvest the matured sugarcane, winter vegetables, turmeric, and potato.
- To control internal rotten disease in mango, spray the solution of 5-6 gm Borax/litre of water.
- Weeding, hoeing, intercultural operations and application of fertilizers may be done as per requirement in summer sugarcane and vegetable crops.

### Himachal Pradesh

- Isolated rain / thundershowers likely over the State.

### Advisories

- As there was no significant rainfall in the State during last week and only isolated rain / thundershower is likely over the State for next three days, apply irrigation to vegetables and potato.
- Harvest already matured crops on bright sunny days.
- There is mild chance of attack of leaf spot disease in cabbage and cauliflower. If attack crosses economic threshold level, spray Dithane M – 45 to control the disease

### Uttarakhand

- 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 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.
- Monitor mango trees for powdery mildew and litchi for mite incidences. Undertake need based plant protection measures.

## **Jammu & Kashmir**

- **Isolated** rain/thundershowers likely over Jammu & Kashmir

### **Advisories**

- As isolated rain/thundershowers likely 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 poly bags for sowing of cucurbits under polyhouse conditions may be continued 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.
- Complete harvesting wheat, barley, oats and oilseed crops in Jammu division. Continue harvesting wheat in Kashmir division.

## **Delhi**

- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no significant rain during last week and mainly dry weather is likely over the State for next three days, apply irrigation to vegetables crops.
- Prepare land and undertake sowing of chilli and Pusa Chetkin variety of raddish.
- Prepare land and undertake sowing of arhar. Select varieties from UPAS-120 and 121.

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

### **Kerala**

- Rain / thundershowers occurred at isolated places in Kerala during this period.
- Isolated rain/thundershowers likely over Kerala 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 isolated places only during next 48 hours and increase thereafter, apply irrigation to plantation crops viz., coconut, arecanut, rubber and banana.
- Abnormal leaf fall is observed in rubber. Undertake prophylactic spray of Bordeaux mixture @ 1%
- Attack of stem bleeding and rhinoceros beetle is reported in coconut. To control stem bleeding, chisel out completely the affected tissues and paint the wound with Tridemorph

5%. Apply coal tar after 1-2 days. Root feed with Tridemorph 5% to prevent further spread of lesions. Fill the leaf axils with 25 gm. Sevidol 8 G and fine sand 200 gm to control rhinoceros beetle.

- Attack of mahali disease is reported in arecanut. Apply 1% Bordeaux mixture to control the disease.
- Continue land preparation and nursery preparation of *virippu* rice and pepper.
- 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 a 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.

## Tamilnadu

- **Isolated** rain/thundershowers likely over south Tamil Nadu during next 48 hours and increase thereafter.
- Mainly dry weather is likely over the rest region.

## 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 only over south Tamil Nadu during next 48 hours and mainly dry weather is likely over rest of the 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.
- Start 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.
- Spray Planofix @ 20 ppm to increase seed set in sunflower in and around Kovilpatty.

## Karnataka

- Rainfall occurred at isolated places on 7<sup>th</sup> May and dry weather prevailed for all the remaining days over South Interior Karnataka; dry weather prevailed on all the days over Coastal Karnataka and North Interior Karnataka.
- Mainly dry weather is likely over the State.

## Advisories

- As there was no sufficient rainfall in the State during last week and mainly dry weather is likely over the State for the next three days, apply irrigation to sugarcane.
- Conserve moisture in summer crop fields where the crops are at maturity stage.
- 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.

- Monitor summer rice for blast attack and undertake need based plant protection measures.
- Continue land preparation and sowing of early *kharif* crops like green gram, black gram, jowar and sunflower.

## **Andhra Pradesh**

- Mainly dry weather is likely over the State.

### **Advisories**

- Continue harvesting the rice and groundnut crops on bright sunny days.
- The incidence of thrips, dieback, *Cercospora* leaf spot, *Choanephora* blight and powdery mildew is noticed in chillies. To control thrips spray Fipronil @ 2.0 ml per litre of water. To control dieback spray Captan @ 1.5 g per litre of water. To control *Cercospora* leaf spot, spray Mancozeb @ 2.5 g or Carbendazim @ 1 g per litre of water.
- The deficiency of Zinc and Boron is noticed in Chilli. To correct the zinc deficiency, spray ZnSo<sub>4</sub> @ 2g per litre of water. To correct boron deficiency, spray boron @ 1.5 g per litre of water.
- The incidence of wooly aphids, *Pyrilla* and scale insects is noticed on sugarcane in Nizamabad district. To control wooly aphids spray Malathion @ 3 ml or Dimethoate @ 2 ml or Acephate @ 1 g per litre of water. If severity is more, spray Acephate @ 1 g + Dichlorvas @ 1 ml per litre of water. To control *Pyrilla* spray Endosulfan or Malathion @ 2 ml per litre of water. To control scale insects. spray Malathion or Dimethoate @ 2 ml per litre of water.
- Prevailing weather conditions are congenial for the spread of anthracnose in mango. To control anthracnose spray Carbendazim @ 1 g or Copper- Oxy-Chloride @ 3 g per litre of water.

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

### **Assam**

- Light to moderate rain occurred at many places on 6<sup>th</sup> and at isolated places on 5<sup>th</sup> and 7<sup>th</sup> with rather heavy falls on 6<sup>th</sup> May over the State.
- Rain/thundershower likely over the state at a few places.

### **Advisories**

- As rain is likely to occur only at a few places over the state for next three days, apply irrigation to the crops.
- Maintain 3 – 5 cm of water in *boro* rice and early *ahu* rice field.
- Continue sowing of jute. Varieties of *capsularis* such as JRC 212, JRC 321, JRC- 7447, UPC-94 etc. should be collected from reputed sources and sown in line at a spacing of 25 cm row to row and 5-7 cm plant to plant. Seeds @ 800-900 gm are required for sowing one bigha.
- Prepare land applying FYM and Urea @ 12 Kg, SSP @ 17 Kg and MOP 4 Kg per bigha for sowing of broadcasted regular *ahu* rice. 14 kg seeds are required for broadcast of one bigha of land. For transplanted regular *ahu* rice, seed bed of 10 m in length and 1.25 m in breadth with 30 cm gap between two seedbeds should be prepared. Well germinated seeds are to be sown @ 650-1000 g per bed. For transplanting one hectare of land 40-45 kg seeds are required.

- Prepare land for sowing of maize. Seeds of hybrid varieties viz. Ganga-5, Ganga-101, Hi-star and composite varieties such as Kishan, Vijay, Vikram, Diara etc. may be collected from reputed sources for sowing and depending upon the size, 2.5-3 kg seeds are required for sowing one bigha of land.
- Upland area free from water stagnation should be selected for planting of sugarcane. Trenches / furrows should be made in well prepared soil at a distance of 75-90 cm. Bottom of the trenches should be loosened by light hoeing before application of manures / fertilizers. Further, 40 kg urea, 60 kg SSP and 15 kg MOP per bigha is to be applied and setts are to be treated before planting by dipping them in 0.2% solution of Captaf / Dithane M-45.
- Monitor *boro* rice for blast disease. As soon as one or two spots on leaves are seen, Hinosan 50 EC @ 1 ml or Blitox 4 g per litre of water is to be sprayed and spraying is to be continued till the disease is controlled. For control of Sheath blight disease apply bavistin @ 1gm per litre of water. For control of pests like Hispa, brown plant hopper etc., insecticide like Chloropyphos 20 EC @1.5 ml or Phosphamidon @ 1ml per litre of water is to be sprayed.
- Infestation of pest and disease such as fruit fly, epilachna beetle, aphids and red Pumpkin beetle and powdery mildew, downy mildew and anthracnose in summer vegetables in some localities is reported. For control of pests such as fruit fly, epilachna beetle, aphids and red Pumpkin beetle in summer vegetables, malathion 50 E.C. @2 ml per litre of water should be applied. Also for control of diseases such as powdery mildew, downy mildew and anthracnose, apply Bavistan @ 1 g / litre of water or Diathine Z-78 or Captaf @ 2 g / litre of water should be applied.
- Apply pesticides on a non rainy day.

### **Arunachal Pradesh**

- Rain/thundershower likely at a few places over Arunachal Pradesh.

### **Advisories**

- Farmers are advised to continue sowing of summer vegetables like ladies finger, cucurbits / pumpkin etc.
- Undertake sowing of ginger.
- As there was no significant rainfall during last week in most of the districts during last week and rain/thundershower likely at a few places over the State for the next three days, apply irrigation to the early sown summer vegetables.
- Continue sowing/ transplanting of wet seeded (WRC) rice.

### **Bihar**

- Isolated rain/thundershower likely over the over the State.

### **Advisories**

- As there was no significant rainfall in most of the districts of the State during last week and only isolated rain/thundershower likely over the over the State, apply irrigation to vegetables, arhar, and sugarcane.
- Complete sowing of summer vegetables and moong.
- Maintain 3– 5 cm standing water in the rice field.

### **Jharkhand**

- **Isolated** rain/thundershower likely over the State.

### **Advisories**

- As there was no significant rainfall in most of the districts of the State during last week and only isolated rain/thundershower likely over the State, apply irrigation to the vegetable crops.
- Prepare field and undertake sowing of summer vegetables, moong and til.
- Topdressing of urea after 50 days of transplanting can be done in summer rice.

## Sikkim

- Rain/thundershower likely **at a few places** over Sikkim.

## Advisories

- As there was no significant rainfall during last week and rain/thundershower likely at a few places over the state for the next three days, apply irrigation to orange, large cardamom, early sown maize and vegetable crops.
- Monitor large cardamom for caterpillar/ shoot borer and infected plants may be hand picked and destroyed mechanically.
- Dry grasses used for mulching near the orange trees must be removed just 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 on a non rain day.
- Undertake weeding, thinning and intercultural operations in maize on a non rain day.
- 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

- Rain / thundershower likely at a few places over the State.

## Advisories

- As there was no significant rain during last week and rain is likely to occur only at a few places over the State for next three days, apply irrigation to sesamum, groundnut, green gram, jute and sugarcane.
- Maintain 3 – 5 cm standing water in *boro* rice field.
- Apply 6.5 kg urea per bigha as top dressing for second time in jute.
- Mango is now in fruit development stage. Water stress during previous week may lead to fruit drop. Apply irrigation or spray water along with Planofix @ 0.25 ml per litre of water to restrict fruit drop.
- Infestation of rice bug is reported in some places. To control rice bug apply Carbaryl @ 2 g per litre of water.
- 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.

- Apply fertilizers and plant protection measures on a non-rainy day.

## ***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 and summer bajra.
- Maintain 3 – 5 cm water in summer rice field.
- Apply 75 kg Nitrogen / ha as top dressing after 45 days from planting of sugarcane. Carry out light earthing up at 90 days after planting.
- If groundnut crop appears yellowish spray mixture of 100 g ferrous sulphate + 10 g citric Acid (Lemon arck) dissolved in 10 liters of water & spray over the crop in 500 liters of water.

### **Chhattisgarh**

- Isolated rain/thundershower is likely over the State.

### **Advisories**

- As there was no rainfall during last week and mainly dry weather is likely over the State for next three days, apply irrigation to sugarcane, vegetables, sunflower, groundnut and sesame.
- Maintain 5 cm water in summer rice field.
- Top dressing of sugarcane with Nitrogen may be done.
- Prepare land and continue sowing of green gram.

### **Maharashtra**

- Mainly dry weather 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.
- 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.

### **Madhya Pradesh**



- **Isolated** rain/thundershower is likely over north Madhya Pradesh. **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 is likely over north Madhya Pradesh and mainly dry weather is likely over the State for the next three days, apply irrigation to *summer* moong and sugarcane.
- Undertake intercultural operation in *summer* moong and sugarcane to keep the field weed free.

### Orissa

- Rain/thundershower likely **at a few places** over the State.

### Advisories

- As there was no rainfall during last week in most of the districts and rain/thundershower likely **at a few places** over the State for next three days, apply irrigation to vegetables, moong and early sown sugarcane.
- There is mild chance of occurrence of aphids in vegetables. If 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 pulses, vegetable and oilseed crops.
- Monitor sugarcane for early shoot borer and undertake need based plant protection measures.



# *Salient weather features for the week ending 7/05/08*

## MAIN EVENTS OF THE WEEK

- The Very Severe Cyclonic Storm “**NARGIS**” crossed southwest coast of Myanmar near Lat.  $16.0^{\circ}$  N between 1730 and 1930 hours IST of 2<sup>nd</sup> May with a sustained maximum surface wind speed of 90 kmph.
- Heat wave conditions prevailed over some parts of Rajasthan, Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana and Coastal Andhra Pradesh on many days of the week.

## METEOROLOGICAL ANALYSIS

- Last week's Very Severe Cyclonic Storm “**NARGIS**” over west central and adjoining south and east central Bay of Bengal moved northwestwards and lay centered at 0830 hours IST of 1<sup>st</sup> May 2008 over east central & adjoining west central Bay of Bengal near Lat.  $15.5^{\circ}$  N and Long  $89^{\circ}$  E, about 650 km southwest of Sandoway (Myanmar). The system moved eastwards and lay centered at 0530 hours IST of 2<sup>nd</sup> May over east central Bay of Bengal near Lat.  $16^{\circ}$  N and Long  $92.5^{\circ}$  E, about 350 km southwest of Sandoway (Myanmar) and about 200 km west-southwest of Patheingyi (Myanmar). The Very Severe Cyclonic Storm “**NARGIS**” then moved eastwards and lay centered at 0830 hours IST of 2<sup>nd</sup> May 2008 over east central Bay of Bengal near Lat.  $16^{\circ}$  N and Long  $93^{\circ}$  E about 200 km west southwest of Patheingyi (Myanmar). It moved further eastward and crossed southwest coast of Myanmar near Lat  $16^{\circ}$  N between 1730 and 1930 hours IST of 2<sup>nd</sup> May.
- From 2030 hrs. IST of 2<sup>nd</sup> May, it took northeasterly course and started to move in a northeasterly direction. After crossing the coast, system maintained the intensity of very severe cyclonic storm till 3<sup>rd</sup> early morning and weakened thereafter. It lay a severe cyclonic storm centred at 0830 hrs. IST of 3<sup>rd</sup> May over Myanmar near lat.  $17^{\circ}$  N and long.  $96^{\circ}$  E, close to Yangon. The system weakened into a low pressure area over northeast Myanmar and adjoining Thailand in the evening of 3<sup>rd</sup> May 2008.
- The maximum sustained wind speed of 90 kmph prevailed around system centre during 1130 hrs. IST of 2<sup>nd</sup> to 0530 hrs. IST of 3<sup>rd</sup> May.
- The lowest estimated central pressure (ECP) of the system was 962 hPa recorded at 1130 hrs. IST of 2<sup>nd</sup> May with a pressure drop of about 40 hPa.
- Throughout the life of cyclone, the sea surface temperature over the Bay of Bengal was  $29-32^{\circ}$  C which was favorable for both cyclogenesis and intensification. The vertical wind shear of horizontal winds between 200 and 850 hPa levels was also favorable as it was less than 20 knots around the system centre throughout the period except a few hours on 29<sup>th</sup> April, when satellite imagery showed slight weakening of the system. The upper level divergence, lower level convergence, lower level relative vorticity were also favorable for intensification of the system.
- Last week's upper air cyclonic circulation in lower tropospheric levels over Sub-Himalayan West Bengal & Sikkim and neighbourhood persisted on 1<sup>st</sup> May. It lay over Assam & Meghalaya and neighbourhood on 2<sup>nd</sup> and moved away eastwards thereafter.
- Last week's upper air cyclonic circulation in lower tropospheric levels over north Rajasthan and neighbourhood persisted on 1<sup>st</sup> May and became less marked on 2<sup>nd</sup>.
- An upper air cyclonic circulation in lower tropospheric levels lay over Gangetic West Bengal and neighbourhood on 3<sup>rd</sup>, Bangladesh and neighbourhood on 4<sup>th</sup>, Assam & Meghalaya on 5<sup>th</sup>, Nagaland, Manipur, Mizoram & Tripura on 6<sup>th</sup> and east Arunachal Pradesh on 7<sup>th</sup>.
- Another upper air cyclonic circulation in lower tropospheric levels lay over Uttar Pradesh and neighbourhood during 3 to 5<sup>th</sup>, Bihar and adjoining Gangetic West Bengal on 6<sup>th</sup> and became less marked on 7<sup>th</sup>.
- A western Disturbance as an upper air system lay over Jammu & Kashmir and neighbourhood on during 4-6 and moved away eastwards thereafter.
- An upper air cyclonic circulation in lower tropospheric levels lay over Punjab & neighbourhood on 4<sup>th</sup>, Haryana neighbourhood on 5<sup>th</sup>, Himachal Pradesh and neighbourhood on 6<sup>th</sup> and West Uttar Pradesh on 7<sup>th</sup>.

- An upper air cyclonic circulation in lower tropospheric levels lay over central Pakistan and neighbourhood on 4<sup>th</sup>, Rajasthan and neighbourhood on 5<sup>th</sup> & 6<sup>th</sup>.
- An upper air cyclonic circulation extending upto 0.9 km above mean sea level (a.m.s.l.) lay over Coastal Andhra Pradesh and neighbourhood on 7<sup>th</sup>.
- A feeble western Disturbance as an upper air system lay over Jammu & Kashmir and neighbourhood on 7<sup>th</sup>.

#### **RAINFALL**

- Fairly widespread rain/thundershower occurred over Jammu & Kashmir and isolated to scattered rain/thundershower occurred over adjoining plains of Northwest India on 5<sup>th</sup> & 6<sup>th</sup> May.
- Fairly widespread rain/thundershower occurred over Andaman & Nicobar Islands with isolated heavy falls on 1<sup>st</sup> & 2<sup>nd</sup> May. The activity was isolated/scattered thereafter.
- Scattered to fairly widespread rain/thundershower occurred over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and isolated/scattered rain/thundershower occurred over Assam & Meghalaya on many days of the week.
- Isolated to scattered rain/thundershower occurred over Gangetic West Bengal, Orissa and Jharkhand on many days and over Bihar on a few days of the week.
- Isolated rain/thundershower occurred over Tamil Nadu & Puducherry and Kerala on many days of the week.

#### **MAXIMUM TEMPERATURE**

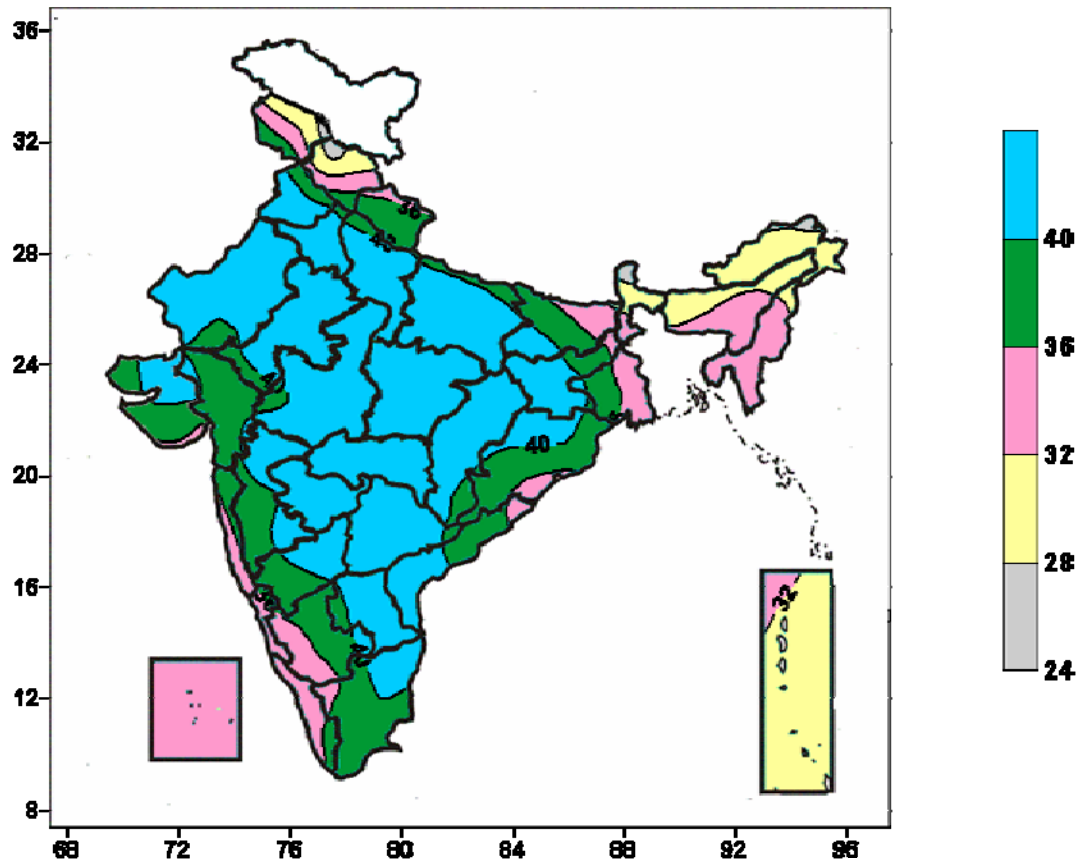
- Heat wave conditions prevailed over some parts of Rajasthan, Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana and Coastal Andhra Pradesh on many days of the week. Heat wave conditions also prevailed over isolated pockets over Orissa on 3<sup>rd</sup>, Vidarbha on 1<sup>st</sup> and Tamil Nadu & Puducherry on 1<sup>st</sup> & 3<sup>rd</sup>.

#### **OUTLOOK FOR THE WEEK ENDING ON 14TH MAY 2008**

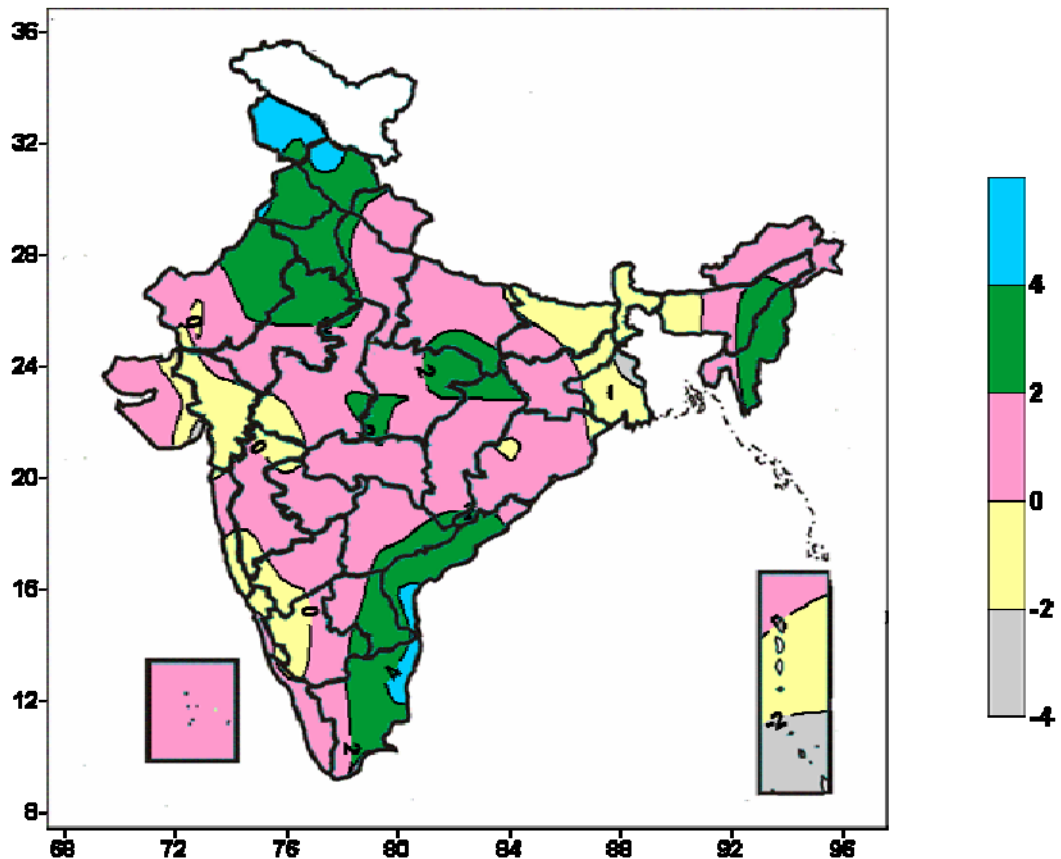
- Fairly widespread rainfall activity over Andaman & Nicobar Islands.
- Isolated to scattered rain/thundershowers activity accompanied with isolated squall likely over east and northeast India.
- Isolated thundersquall is likely over Himachal Pradesh, Punjab and Haryana during first half of the week.

## Contour maps for the week ending 7<sup>th</sup> May, 2008

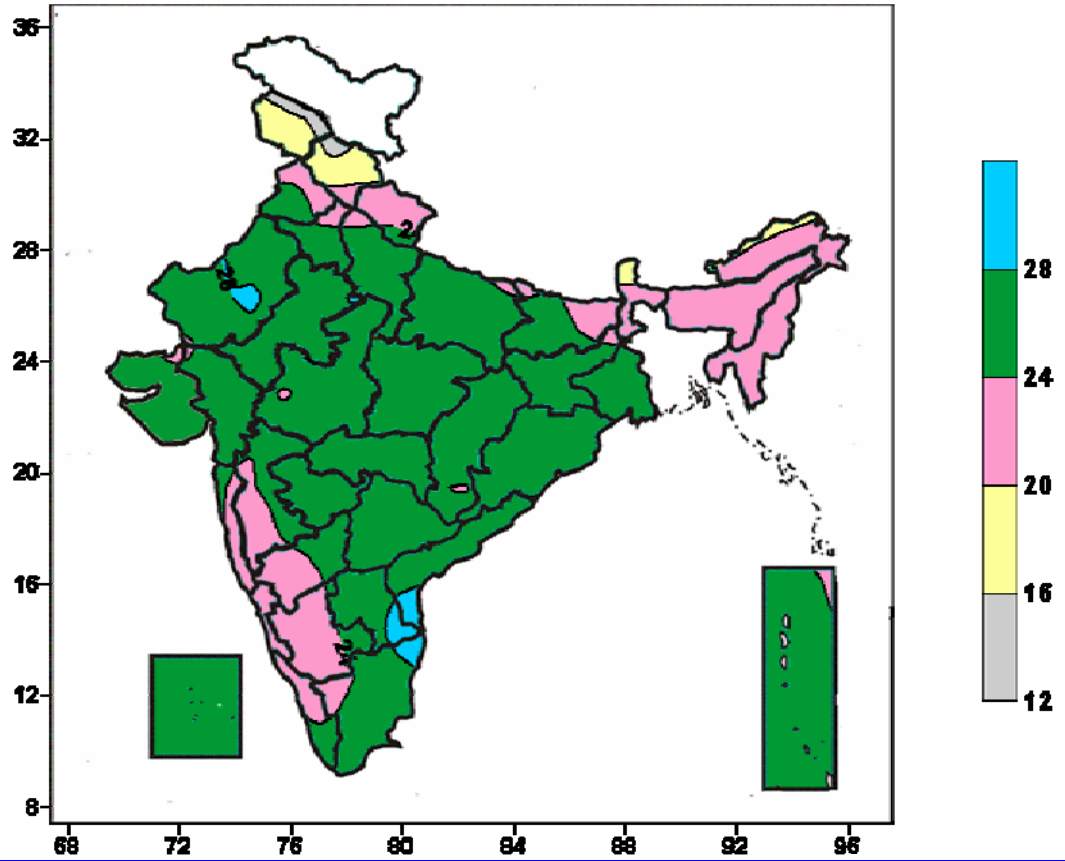
**Actual Mean Maximum Temperature ( $^{\circ}\text{C}$ ) In India for the week ending 7.05.08**



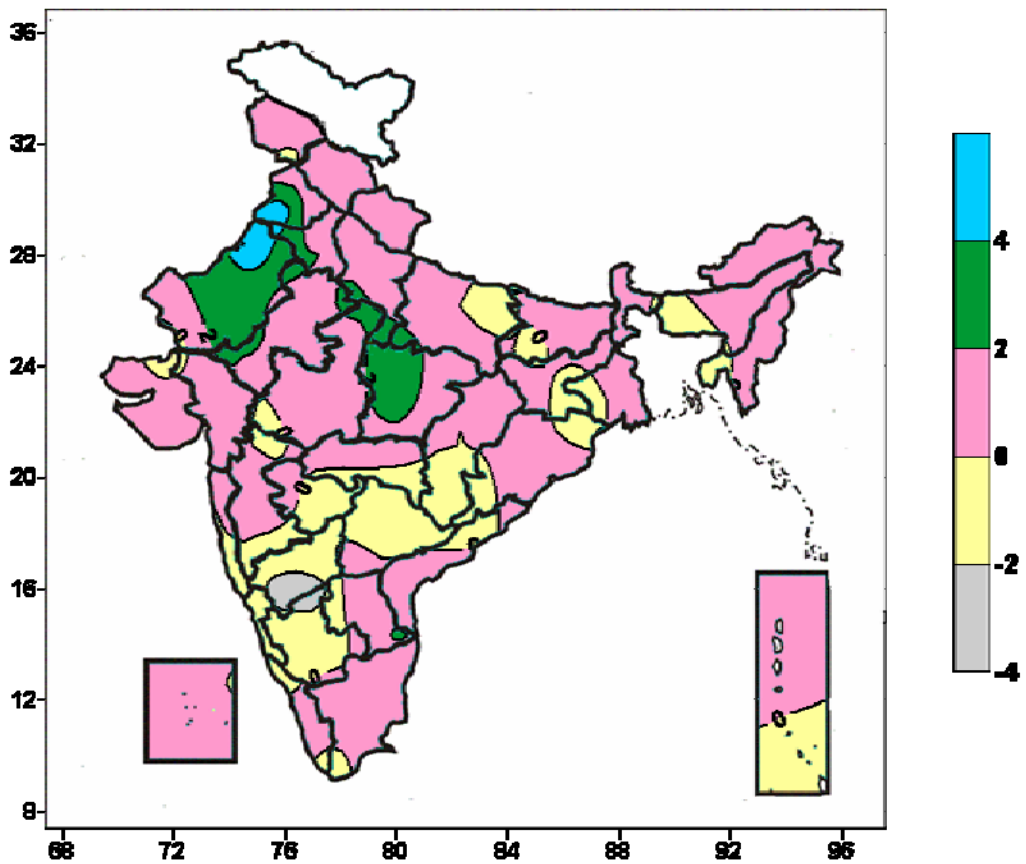
**Maximum Temperature ( $^{\circ}\text{C}$ ) Anomaly In India for the week ending 7.05.08**



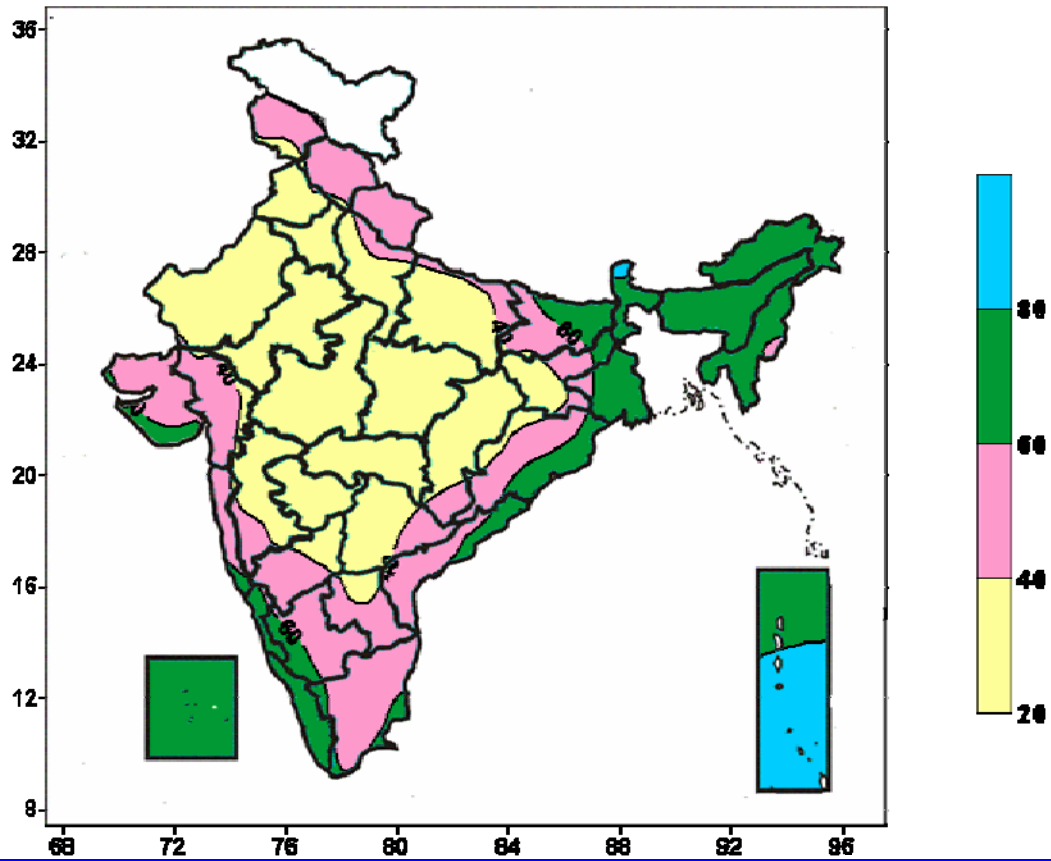
**Actual Mean Minimum Temperature ( $^{\circ}\text{C}$ ) In India for the week ending 7.05.08**



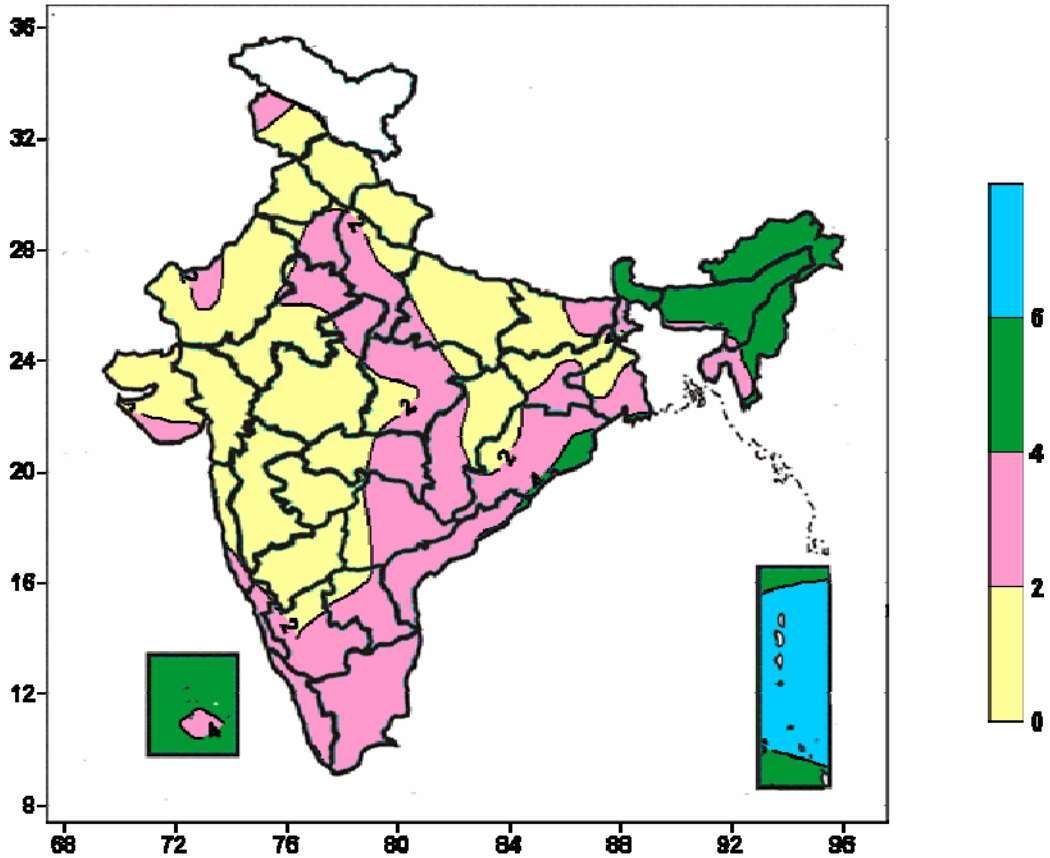
**Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly In India for the week ending 7.05.08**



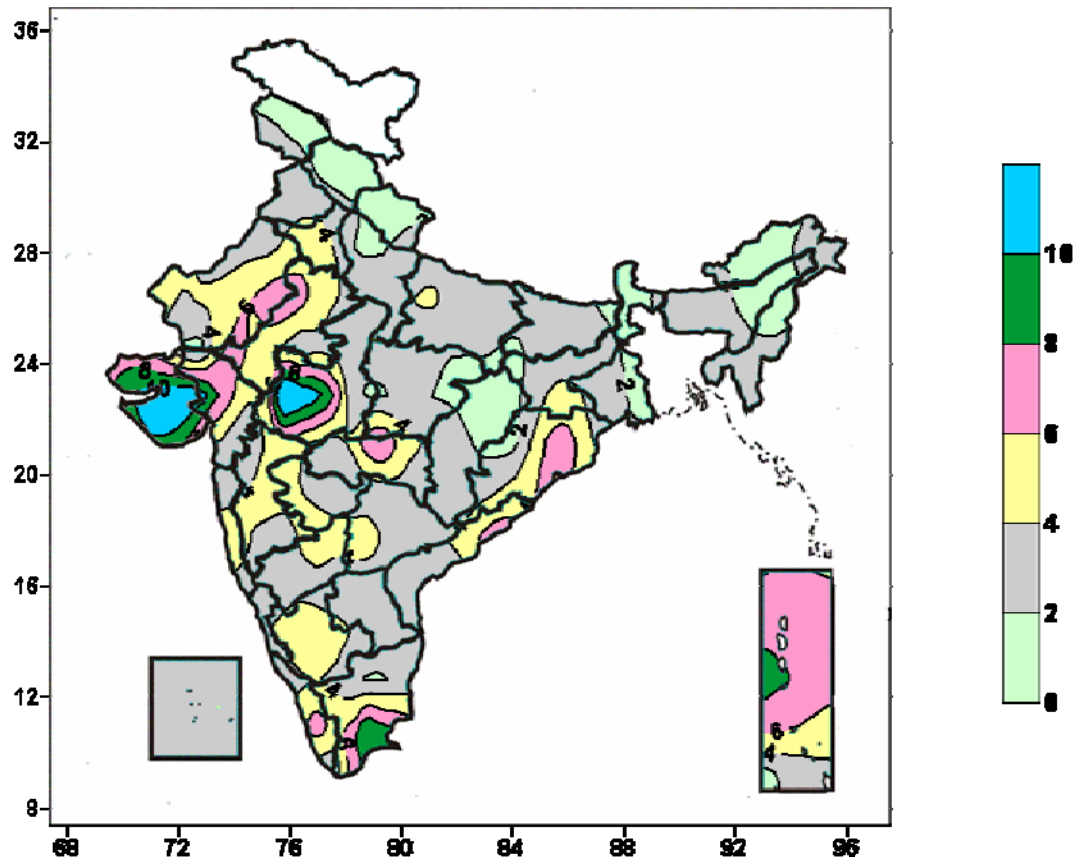
**Relative Humidity (%) over India for the week ending 7.05.08**



**Cloud amount (okta) over India for the week ending 7.05.08**



# Wind speed (knots) over India for the week ending 7.05.08





## Desert Locust Forecasting



Rainfall (mm)							
Station Name	1/5/08	2/5/08	3/5/08	4/5/08	5/5/08	6/5/08	7/5/08
<b>Amritsar</b>	00.0	00.0	00.0	00.0	00.0	00.0	00.0
<b>Barmer</b>	00.0	00.0	00.0	00.0	00.0	00.0	00.0
<b>Sriganganagar</b>	00.0	00.0	00.0	00.0	00.6	00.0	00.0
<b>Jaisalmer</b>	00.0	00.0	00.0	00.0	00.0	00.0	00.0
<b>Kota</b>	00.0	00.0	00.0	00.0	00.0	00.0	00.0
<b>Deesa</b>	00.0	00.0	00.0	00.0	00.0	00.0	00.0
<b>Churu</b>	00.0	00.0	00.0	00.0	00.0	00.0	00.0

## Temperature (° C)

Station Name	1/5/08	2/5/08	3/5/08	4/5/08	5/5/08	6/5/08	7/5/08
<b>Amritsar</b>	31.1	31.3	32.7	30.8	32.5	29.9	-
<b>Barmer</b>	32.9	33.3	34.5	32.7	32.7	32.8	-
<b>Sriganganagar</b>	34.2	36.2	34.6	35.0	34.1	34.0	-
<b>Jaisalmer</b>	33.1	34.2	34.3	33.2	33.6	34.3	-
<b>Kota</b>	36.8	34.7	37.1	37.3	36.1	33.5	-
<b>Deesa</b>	31.1	30.9	31.7	31.1	39.0	38.3	-
<b>Churu</b>	34.9	34.4	35.4	38.3	32.3	28.7	-

## Wind

Station Name	1/5/08		2/5/08		3/5/08		4/5/08		5/5/08		6/5/08		7/5/08	
	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed
<b>Amritsar</b>	-	-	-	-	-	-	-	-	-	-	NE	07	N	06
<b>Barmer</b>	-	-	-	-	-	-	-	-	-	-	N	16	-	-
<b>Sriganganagar</b>	-	-	-	-	-	-	-	-	-	-	SE	10	-	-
<b>Jaisalmer</b>	-	-	-	-	-	-	-	-	-	-	NW	12	-	-
<b>Kota</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Deesa</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Churu</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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			
Vegetative / flowering / fruiting/ harvesting	Land preparation/ sowing			
<b>Haryana</b>				
Autumn sugarcane	Horticultural crops	Sunflower	Summer Pulses	
Vegetative	Vegetative	Vegetative	Sathe moong- complete sowing Moong-sowing	

## Himachal Pradesh

Vegetables (Ladies finger/ Cabbage, Cauliflower)	Ladies finger	Barley	Gram	Wheat
Vegetative/flowering/fruiting/harvesting	Fruiting/harvesting	Maturity/harvesting	Pod maturity/harvesting	Maturity/harvesting
Potato	Oilseeds (Torai, Rapeseed and mustard)			
Tuber formation	Pod maturity/harvesting			

## Jammu & Kashmir

Vegetable crops	Wheat	Pulses	Brown Sarson, Mustard	Barley, Oat
vegetative	Grain harvesting	vegetative	Capsule harvesting in Jammu	Grain harvesting- Jammu

## Punjab

Autumn sugarcane	Wheat	Summer pulses	Sunflower	Horticultural crops
Vegetative	Harvesting	Early vegetative	Vegetative	Vegetative
Oilseeds				
Early vegetative/ vegetative				

## Rajasthan

Cotton	Summer Vegetable crops			
Sowing	Vegetative			

## Uttar Pradesh

Sugarcane	Vegetables	Summer pulses	Sunflower	Mango
Cane maturity/harvesting	Fruiting / maturity	Vegetative	Vegetative	Fruit setting
Summer Sugarcane	Oilseeds			
Early vegetative	Vegetative			

## Uttarakhand

Mango/Litchi	Sugarcane	Potato	Apple	
Flowering/fruiting	Vegetative	Tuber formation	Vegetative	

## Assam

Regular Ahu rice	Maize	Horticultural plants	Boro rice	Summer vegetables
Tillering	Land preparation/ sowing	Planting	Dough/maturity	Vegetative / flowering /fruiting/harvesting
Early Ahu rice	Jute	Early sown Jute		
tillering	Land preparation/ sowing	Germination / early vegetative		

## Arunachal Pradesh

Ginger	Summer Vegetables	Jhum Rice/Wet seeded rice		
Land preparation for sowing	Vegetative	Land preparation/sowing/transplanting		

<b>Bihar</b>				
<b>Vegetables &amp; fruit crops</b> vegetative/fruitle	<b>Summer Maize</b> Vegetative	<b>Summer rice</b> Vegetative	<b>Sugarcane</b> Vegetative	<b>Potato</b> Tuber formation

<b>Jharkhand</b>				
<b>Summer rice</b>	<b>Litchi / Mango</b>	<b>Vegetables (Tomato, Brinjal, Bhendi)</b>	<b>Wheat</b>	<b>Summer moong and til</b>
Early vegetative/ Vegetative	Vegetative (tree)	Vegetative	Harvesting	Sowing

<b>Sikkim</b>				
<b>Orange</b>	<b>Vegetables</b>	<b>Large Cardamom</b>	<b>Wheat</b>	<b>Maize</b>
Fruiting	Sowing	Capsule formation/development	Harvesting	Grain formation/development

<b>West Bengal</b>				
<b>Sugarcane</b>	<b>Jute</b>	<b>Rabi Arhar</b>	<b>Groundnut</b>	<b>Green Gram</b>
Sprouting / early vegetative / vegetative	Germination / seedling / early vegetative	Harvesting	Pod formation	Flowering/ pod formation
<b>Boro rice</b>	<b>Sesamum</b>			
Milk / dough / early maturity	Vegetative/flowering/ pod formation			

<b>Chhatisgarh</b>				
<b>Sugarcane</b>	<b>Sesame</b>	<b>Summer Rice</b>	<b>Vegetables</b>	<b>Green gram</b>
Autumn sugarcane – Vegetative	Vegetative / flowering / pod formation / seed formation	Milk/dough	Fruiting/harvesting	Vegetative / flowering
<b>Sunflower</b>	<b>Groundnut</b>			
Head formation / seed formation	Pod formation/seed formation			

<b>Gujarat</b>				
<b>Sugarcane</b>	<b>Summer rice</b>	<b>Summer groundnut</b>	<b>Summer bajra</b>	
Vegetative	Grain formation	Pegging / pod formation	Flowering / milk	

<b>Maharashtra</b>				
<b>Sugarcane Preseasonal (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Sugarcane (Suru) (Madhya Maharashtra, Marthwada and Vidarbha)</b>	<b>Summer sunflower</b>	<b>Mango</b>	<b>Summer green gram</b>
Elongation / cane development	Active growth / elongation	Head formation/seed formation	Fruit development/ fruit maturity/harvesting	Pod formation/pod maturity
<b>Potato (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Summer Rice</b>	<b>Summer bajra</b>	<b>Summer groundnut</b>	<b>Irrigated cotton</b>
Vegetative	Flowering/grain formation	Grain formation/maturity	Pegging/pod formation	Land preparation and sowing

<b>Madhya Pradesh</b>				
<b>Sugarcane</b>	<b>Summer Moong and Sugarcane</b>			
Grand growth	Vegetative			

<b>Orissa</b>				
<b>Vegetable crops</b>	<b>Rice</b>	<b>Sugarcane</b>	<b>Pulses</b>	<b>Oilseeds</b>
Flowering/fruitle/harvesting	Grain formation/development	Vegetative	Harvesting	Harvesting
<b>Moong</b>				
Vegetative				

<b>Andhra Pradesh</b>				
<b>Rice</b>	<b>Groundnut</b>	<b>Chillies</b>	<b>Sugarcane</b>	
Harvesting	Pod maturity	Vegetative	Vegetative	

<b>Karnataka</b>				
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<b>Early sown maize, sunflower</b>	<b>Annual sugarcane</b>	<b>Early kharif Crops</b>	<b>Rabi Cotton</b>	<b>Summer rice</b>
Grain development/maturity	Active vegetative / tillering	sowing	End picking	Grain development

**Kerala**

<b>Rice</b>	<b>Rubber</b>	<b>Coconut</b>	<b>Banana</b>	<b>Pepper</b>
<i>Puncha</i> -Harvesting <i>Virippu</i> - sowing	Planting	Land preparation for new planting	Planting	Land preparation for new planting

**Tamil Nadu**

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

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