



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

Issued by

Agricultural Meteorology Division, India Meteorological  
Department, Pune, India

Thursday, 24<sup>th</sup> April, 2008

(For the period 24<sup>th</sup> April to 28<sup>th</sup> April, 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**

- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no significant rainfall in the State during last week and mainly dry weather is likely over the State, apply irrigation to the standing crops.
- Monitor the sugarcane crop for thrips and pyrrilla & 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 undertaken as weather remain dry for next three days.
- Undertake sowing of radish.

### **Haryana**

- Mainly dry weather is likely over the state.

### **Advisories**

- As there was no significant rainfall in the State during last week and mainly dry weather/heat wave conditions continue to prevail over isolated pockets of the State, apply light and frequent irrigation to sugarcane, *rabi* oilseeds, pulses, and Horticultural crops.
- Monitor the sugarcane crop for thrips and pyrrilla & 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 early sown sunflower hybrids.
- Continue sowing of summer moong and mash.
- Undertake sowing of radish.

### **Rajasthan**

- Weather remained mainly dry in all the divisions of the state.
- Day maximum temperatures were above normal in Jaipur and Udaipur divisions and nearly normal in rest divisions of the state.
- Mainly dry weather is likely over the state.

### **Advisories**

- Heat wave conditions is likely to prevail isolated parts of north Rajasthan. Apply light and frequent irrigation to prevent the vegetable crops from heat injury.
- Continue harvesting of matured crops of wheat, barley, mustard, gram and potato.
- Monitor *summer* vegetable crops like bitter gourd and ridge gourd for fruit fly in and around Jaipur, Ajmer, Dausa and Tonk. Spray Malathion or Dimethoate @ 1 ml/litre of water.
- Monitor *summer* tomato, brinjal and chilli from blight and viral disease in and around Jaipur, Ajmer, Dausa and Tonk and if the damage crosses ETL, spray Mancozeb @ 2 g/litre of water to control blight. Spray Endosulfan @ 1.5 ml/litre of water to control vector top revent viral disease.
- 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).

### **Uttar Pradesh**

- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no significant rainfall in the State and mainly dry weather 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, wheat and potato.
- Continue field preparation and sowing of sugarcane, urd, and moong.
- 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**

- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no significant rainfall in the State during last week and mainly dry weather/heat wave conditions is likely over the State for next three days, apply light and frequent irrigation to vegetables, potato, toria, rapeseed, mustard, wheat, barley and gram.
- Remove smut infected plants of wheat and cover smut infected plants of barley from the field and destroy completely to avoid further spread of these diseases.
- 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.
- Monitor oilseeds for aphids and if 50 aphids or 4 mm aphid infestation level per central shoot is noticed, spray 750 ml cypermethrin 10 EC or 750 ml methyl demeton 25 EC or 750 ml Dimethoate 30 EC or 1.5 litre Formothion 25 EC or 200-250 ml Phosphamidon in 750 L water / ha.
- Spray Horticulture Mineral oil at break of dormancy stage to avoid the attack of mite in apple. Spray Boric acid (200gm) + Bavistin (100gm) at pink bud stage to avoid the attack of fungus.

### **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.
- Continue planting of sugarcane crop.
- Monitor mango trees for powdery mildew and litchi for mite incidences. Undertake need based plant protection measures.

#### **Jammu & Kashmir**

- Mainly dry weather is likely over the State.

#### **Advisories**

- As dry weather is likely to prevail over the state during next three days, apply irrigation to the standing crops.
- Continue sowing of vegetables and transplanting of tomato, brinjal and chilies
- Preparation of seed beds for early raising of vegetable seedlings such as capsicum, chilies, brinjal, paprika etc. and filling of polybags for sowing of cucurbits under polyhouse conditions may be continued in Kashmir division.
- This is optimum time for transplanting of poplar from nursery to field area during these days in Jammu division. Pruning in grapevine, phaliso, peach and plum crop. Keep the orchard free from weeds by intercultural operation. Farmers can also plan for plantation of new orchards during these days. Apply nitrogenous fertilizer in orchards.
- Arrange for harvesting wheat, barley, oats and oilseed crops in Jammu 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.
- There is mild chance of attack of red pumpkin beetle on cucurbits. If infestation of red pumpkin beetle is noticed on cucurbits, apply carbaryl 50 WP @ 750 – 1000 g per ha.
- Continue harvesting of already matured crops of wheat. When colour of wheat crop changes into golden or reddish, the crop will be ready for harvest.
- Continue harvesting of already matured crops of barley and gram.
- Prepare land and undertake sowing of Pusa Chetkin variety of raddish.
- Prepare land and undertake sowing of fodder bajra and lobia.

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

#### **Kerala**

- Rain / thundershowers occurred at isolated places in Kerala during this period.

- Isolated rain/thundershowers likely over the state during next 48 hour and at a few places thereafter.

### **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 for the next 48 hours and at a few places 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.
- Continue harvesting matured *puncha* rice on bright sunny days.
- 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.
- To protect young trees of arecanut and rubber from sun scorching basal portion of the trunk may be painted with lime.

### **Tamilnadu**

- Isolated rain/thundershowers likely over south Tamil Nadu during next 48 hours and at a few places thereafter.
- Mainly dry weather is likely over the rest of the state.

### **Advisories**

- Apply irrigation to groundnut, sugarcane and pulse crops as rain/ thundershowers likely at isolated places only over south Tamil Nadu during next 48 hours and at a few places thereafter.
- 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 sowing of *summer irrigated* sorghum variety K8 around Kovilpatty.
- 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.

### **Karnataka**

- Rainfall occurred at a few places on 23<sup>rd</sup> at Coastal Karnataka , North Interior Karnataka and South Interior Karnataka . Mainly dry weather prevailed on all the remaining days over Coastal Karnataka; Rainfall Occur at isolated places on all the remaining days over North Interior Karnataka and South Interior Karnataka.

- Isolated rain/thundershowers likely over south Karnataka.

### **Advisories**

- As there was no sufficient rainfall in the State during last week and isolated rain/thunder showers is likely over south Karnataka and mainly dry weather is likely over rest of the State for the next three days, apply irrigation to sugarcane and summer crops.
- Undertake intercultural operations and propping in sugarcane to prevent the crop from lodging.
- Complete picking of *rabi* cotton.
- Continue land preparation and sowing of early *khariif* crops like green gram, black gram, jowar and sunflower.

### **Andhra Pradesh**

- Mainly dry weather is likely over the State.

### **Advisories**

- Conserve moisture in groundnut field as the crop is now at maturity stage. Avoid spraying chemicals as the crop is now at maturity stage
- Continue harvesting the matured rice crop.

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

### **Assam**

- Light to moderate rain occurred at an isolated places on 21st, very light rain at isolated places on 23rd and dry weather prevailed on 22nd over the state.
- Rain/thundershower likely at many places over the State.

### **Advisories**

- As rain / thundershower is likely at many places over the State during next 24 hours, postpone irrigation to the crops. Provide adequate drainage to avoid waterlogging due to heavy rainfall.
- Maintain 3 – 5 cm of water in *boro* rice and early *ahu* rice field.
- Continue sowing of jute after current spells of rain. Varieties of capsularies 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 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.
- As maize is very susceptible to water logging, arrange for surface drainage in the field.

- 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 and continue sowing operations after current spells of rain.

### **Arunachal Pradesh**

- Rain/thundershower likely at many places over the State.

### **Advisories**

- Harvest the matured crops of pea, vegetables and *rabi* maize.
- Farmers are advised to continue sowing of summer vegetables like ladies finger, cucurbits / pumpkin etc.
- Undertake sowing of ginger.
- As rain / thundershower is likely at many places over the State during next 24 hours, postpone irrigation to the crops. Provide adequate drainage to avoid waterlogging due to heavy rainfall.

### **Bihar**

- Weather was mainly dry.
- Mainly dry weather is likely over the State.

### **Advisories**

- As there was no significant rainfall during last week and mainly dry weather is likely over the State for the next three days, apply irrigation to vegetables, arhar, gram, and sugarcane.
- Complete harvesting the matured crops of wheat as early as possible to avoid shattering of grain.
- Complete sowing of summer vegetables and moong.

### **Jharkhand**

- Mainly dry weather is likely over the State.

### **Advisories**

- Apply irrigation to the vegetables as there was no rain occurred in the State during last week and mainly dry weather is likely over the State for the next three days.
- Prepare field and undertake sowing of summer vegetables, moong and til.
- Harvest the matured crops of wheat.
- Topdressing of urea after 50 days of transplanting can be done in summer rice.

## **Sikkim**

- Isolated rain/thundershower likely over the State.

### **Advisories**

- As there was no significant rainfall during last week and rain/thundershowers is likely to occur at isolated places only 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.
- Undertake weeding, thinning and intercultural operations in maize.
- 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**

- Weather was mainly dry on 21<sup>st</sup> and 22<sup>nd</sup> over West-Bengal. Light to moderate rain occurred at few places with rather heavy rain at isolated places on 23<sup>rd</sup> April over Sub Himalayan West Bengal and weather was mainly dry on 23<sup>rd</sup> over Gangetic West Bengal.
- Isolated rain/thundershower likely over the State.

### **Advisories**

- As there was no significant rain during last week and no significant rain is likely to occur for next three days in the State, apply irrigation to sesamum, groundnut, green gram and early planted sugarcane.
- Maintain 3 – 5 cm standing water in *boro* rice field.
- Complete harvesting of matured crops of arhar and wheat.
- Keep vigilance against occurrence of blast disease in *boro* rice. If this disease appears at least one leaf or 25% of the leaves of the plant, then spray water soluble Ediphenphos 50% @ 1 ml or Triamiphos 48% @ 1 ml or Carbendazyme 50% @ 1 gm or Tricyclogol 75% @ 0.5 ml per litre of water. 750 litre of water is required for spraying 1 hectare of land. Keep vigilance against attack of stem borer. Chemicals may be applied under attack of at least 1 larvae or matured pest per hill.

## ***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 to occur 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**

- Mainly dry weather 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.
- Aphids were observed in vegetable crops, hence, it is advised to monitor the crops and if necessary spray Endosulphon or Metasystox @ 2 ml / liter of water.
- Prepare land and continue sowing of green gram.
- Complete harvesting of wheat.

### **Maharashtra**

- Mainly dry weather prevailed over the State.
- Mainly dry weather is likely over the State.

#### **Advisories**

- As there was no significant rain during last week and no significant rain is likely to occur over the State for the next three days, apply irrigation to sugarcane (pre-seasonal), sugarcane (*suru*) and summer groundnut, summer green gram, summer sunflower and summer bajra. Apply light and frequent irrigation in Vidarbha to save the crops from heat injury.
- 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.
- For control of thrips in mango, spray Imidocloprid @ 3 – 4 ml or 30% Dimethoate @ 15 ml / 10 liter water.
- Harvest mango fruits at 80% ripening stage & at morning upto 10 am and after 4 pm & keep fruits in shadow.
- Complete last intercultural operation to keep the field weed free wherever groundnut is at flowering stage.

### **Madhya Pradesh**

- 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, apply irrigation to *summer* moong and sugarcane.



- Undertake intercultural operation in *summer* moong and sugarcane to keep the field weed free.

### **Orissa**

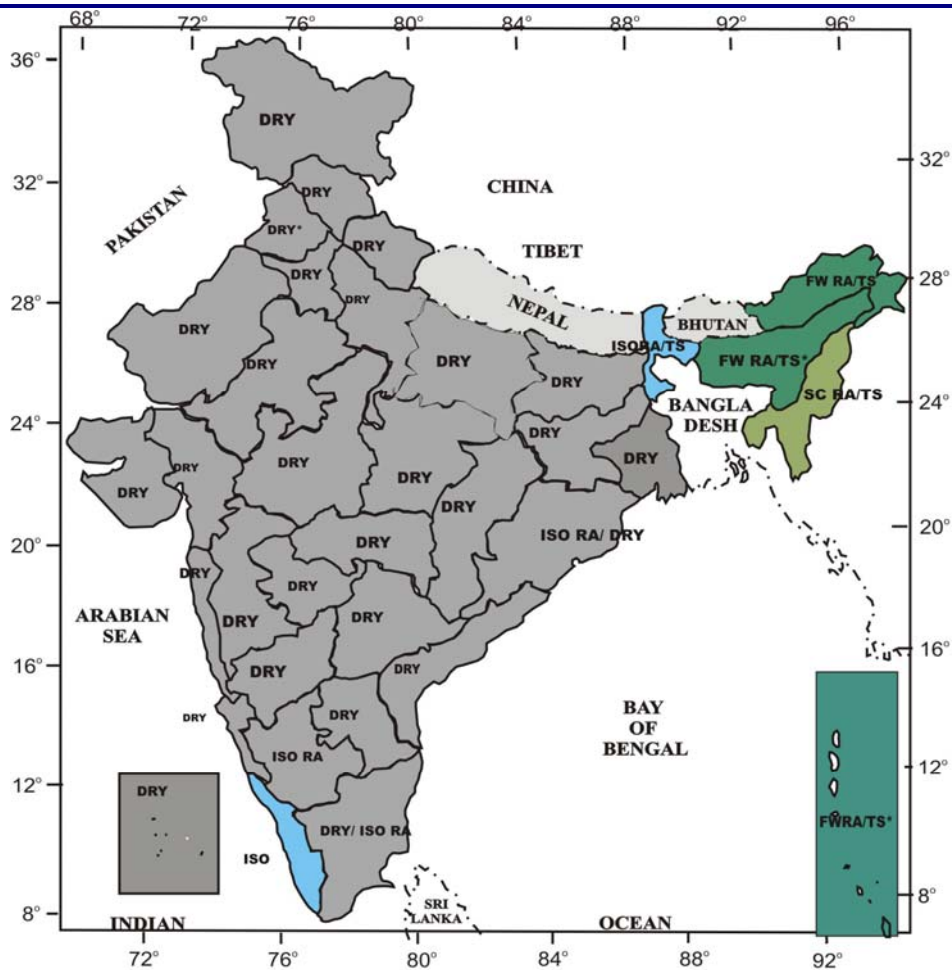
- Isolated rain/thundershower likely over coastal Orissa and mainly dry weather in rest of the State.

### **Advisories**

- As there was no rainfall during last week in most of the districts and isolated rain/thundershower likely over coastal Orissa and mainly dry weather in rest of the State for next three days, apply irrigation to vegetables, oil seed crops, 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 *Dalua* paddy for stem borer and blast and spray Monocrotophos @ 2ml. per litre of water to control stem borer and to control blast disease spray Ediphenophos @ 1ml. per litre of water.

*Forecast Valid upto 27th April, 2008*





ISO - Isolated, TS - Thunder shower/storm, SN - Snow,  
 RA - Rain, DRY - No rain, SC - Scattered, MOD-Moderate,  
 T SQ - Thunder Squall, HA- Hail. DS - Dust Storm,  
 FW - Fairly Widespread  
 \* - With heavy Rain warning, # fog condition

## *Salient weather features for the week ending 23/04/08*

MAIN EVENTS OF THE WEEK

- Under the influence of the north-south trough in lower levels, scattered to fairly widespread rainfall activity occurred over Assam & Meghalaya and Arunachal Pradesh during first half of the week.
- Heat wave conditions prevailed over some parts of north Orissa on 18th and some parts of Haryana and Himachal Pradesh on 22nd.

#### METEOROLOGICAL ANALYSIS

- Last week's western disturbance as an upper air system over Jammu & Kashmir and neighbourhood persisted on 17<sup>th</sup> & 18<sup>th</sup> and moved away eastwards on 19<sup>th</sup>.
- A fresh western disturbance as an upper air system lay over north Pakistan and neighbourhood on 21<sup>st</sup>, over Jammu & Kashmir and neighbourhood on 22<sup>nd</sup> and moved away eastwards thereafter.
- Last week's upper air cyclonic circulation extending between 1.5 and 3.6 Km above mean sea level over West Uttar Pradesh and neighbourhood persisted on 17<sup>th</sup> and became less marked on 18<sup>th</sup>.
- The upper air cyclonic circulation in lower tropospheric levels over Sub-Himalayan West Bengal & Sikkim became less marked on 17<sup>th</sup>. However, a north-south trough ran from Sub-Himalayan West Bengal & Sikkim to north Bay of Bengal in lower levels during 17<sup>th</sup> to 19<sup>th</sup>. A cyclonic circulation lay over Sub-Himalayan West Bengal & Sikkim and neighbourhood during 20-23<sup>rd</sup>.
- A trough sometimes embedded with cyclonic circulation in lower tropospheric levels ran across south peninsula during many days of the week.
- An easterly wave with embedded upper air cyclonic circulation lay over south Andaman Sea and southeast Bay of Bengal on 23<sup>rd</sup>.

#### RAINFALL / SNOWFALL

Under the influence of the above systems:

- Rain/thundershower occurred over a few places over Jammu & Kashmir, Punjab and Himachal Pradesh on 17<sup>th</sup>.
- Scattered to fairly widespread rain/thundershower occurred over Arunachal Pradesh and Assam & Meghalaya during first half of the week. Isolated/scattered rain/thundershower occurred over Sub-Himalayan West Bengal & Sikkim during many days of the week.
- Isolated rain/thundershower occurred over Andaman & Nicobar Islands and Kerala during many days and over Karnataka during a few days of the week.
- The detailed rainfall distribution over different subdivisions is given in *Table-1*.

#### MAXIMUM TEMPERATURE

- Heat wave conditions prevailed over some parts of north Orissa on 18<sup>th</sup> and over some parts of Haryana and Himachal Pradesh on 22<sup>nd</sup>.
- The maximum temperatures were above normal to markedly above normal over most parts of northwest, east & northeast India and Rajasthan during second half of the week.
- They were above normal to appreciably above normal over Maharashtra, Madhya Pradesh, Chhattisgarh, Andhra Pradesh and Tamil Nadu & Puducherry during many days of the week.
- The details of maximum temperature distribution over different sub-divisions during the week are given in Table -1.

#### RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 23<sup>RD</sup> APRIL, 2008)

Rainfall was excess/normal in **2**, deficient/scanty in **21** and no rain in **13** out of **36** meteorological sub-divisions (Actual: **2.6** mm, Normal: **9.8** mm and Departure: **-73** %).

#### CUMULATIVE SEASONAL RAINFALL (1ST MARCH TO 23<sup>RD</sup> APRIL, 2008)

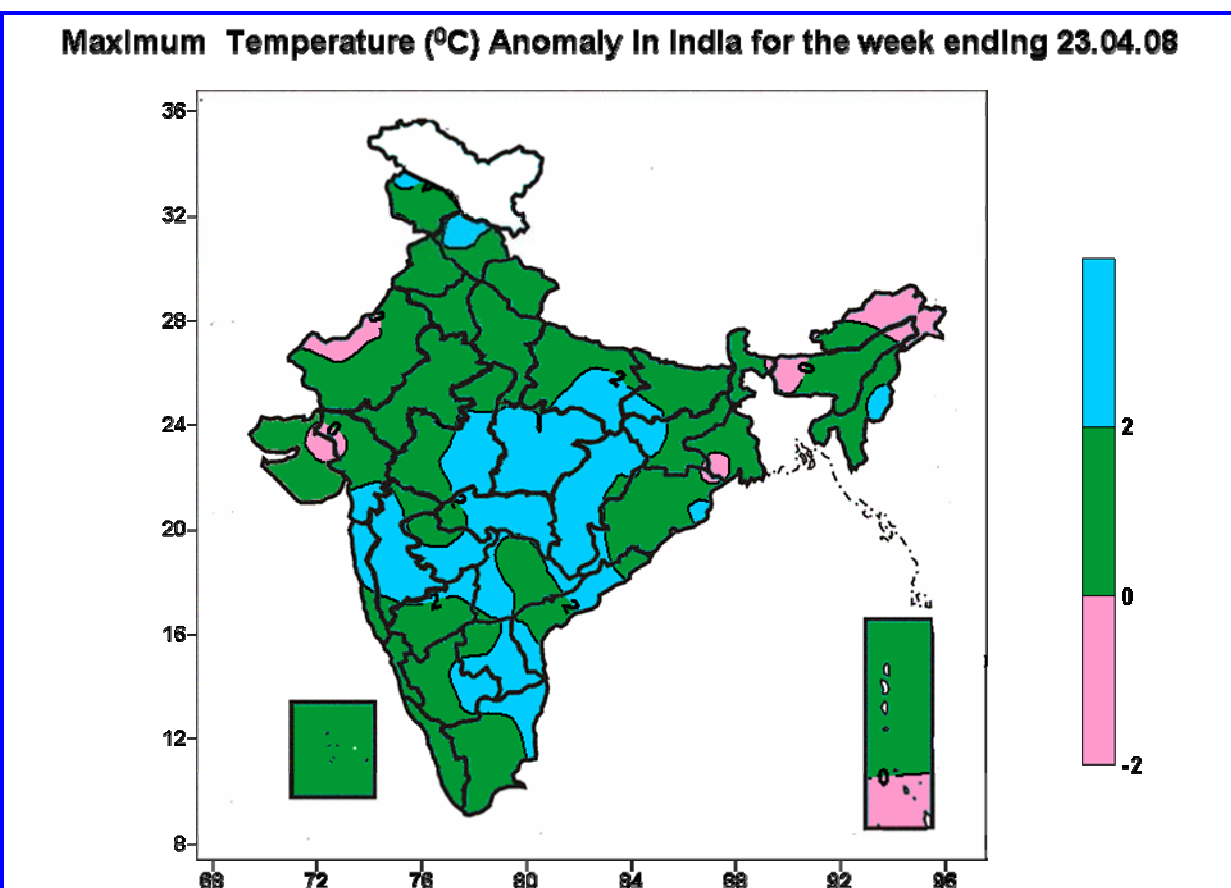
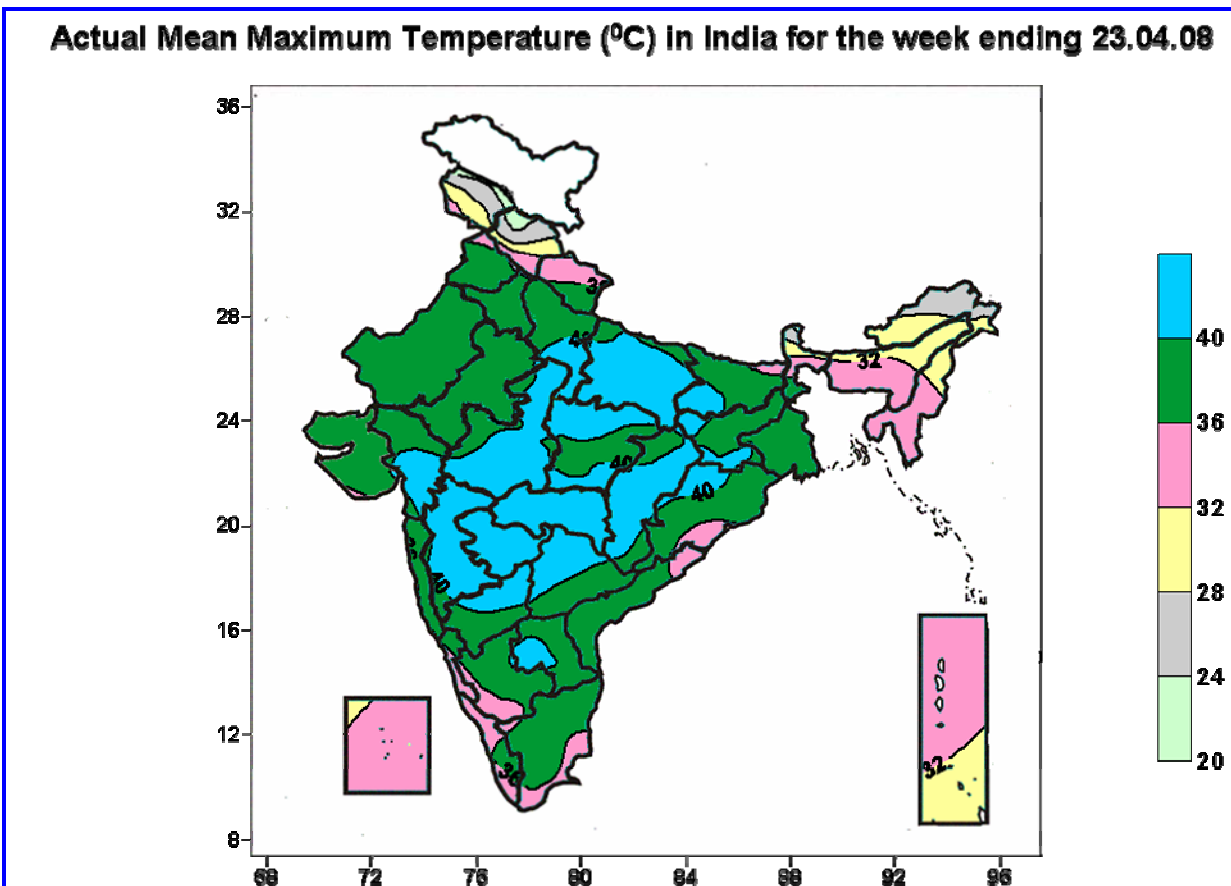
- Rainfall was excess/normal in **24** and deficient/scanty in **12** out of **36** meteorological sub-divisions. (Actual: **64.0** mm, Normal: **59.5** mm and Departure: **+8** %).
- The sub-division-wise weekly and seasonal rainfall distribution is presented in the enclosed map.

- District-wise distribution of excess, normal, deficient and scanty rainfall is shown in *Table-2*. A comparative data of cumulative seasonal rainfall during the corresponding period of last five years is given in *Table-3*.

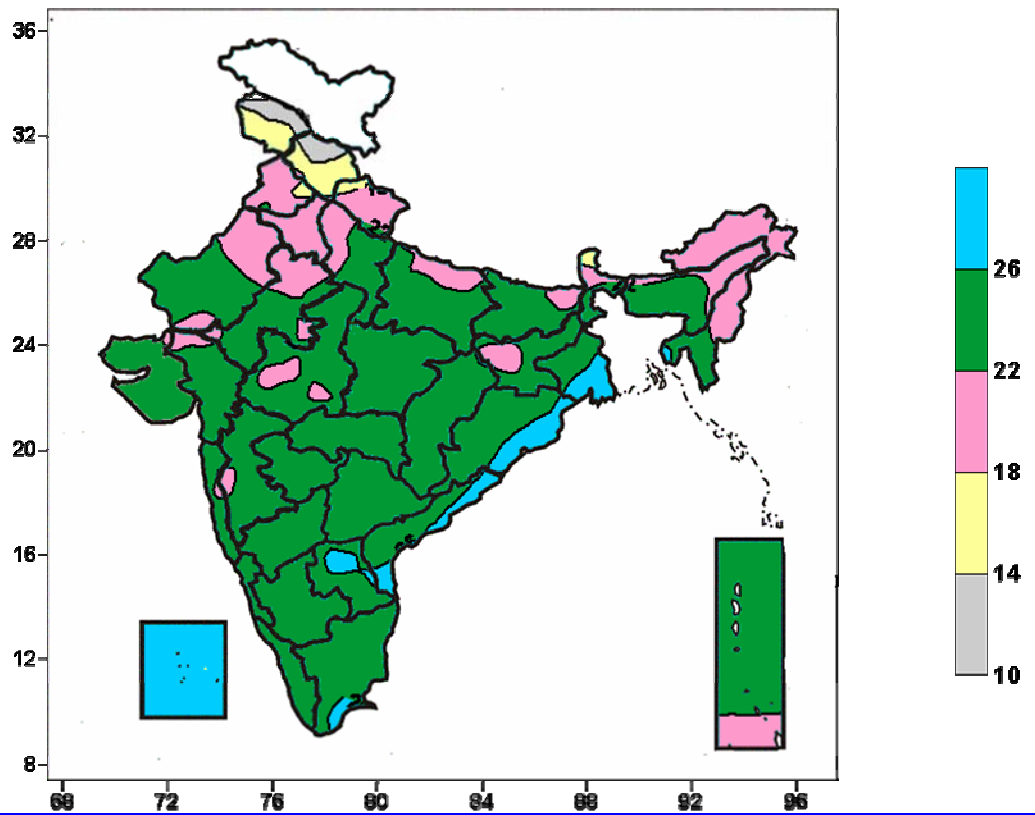
**OUTLOOK FOR THE WEEK ENDING ON 30<sup>TH</sup> APRIL, 2008.**

- A low pressure area is likely to develop over southeast Bay of Bengal around 26<sup>th</sup>. Subsequently, it is likely to concentrate into a depression and move initially in a northwesterly direction.
- Scattered rain/thundershower activity is likely over Kerala, Tamil Nadu and Andaman & Nicobar Islands during second half of the week.
- Heat wave conditions are likely over some parts of plains of northwest & central India.
- Scattered to fairly widespread rain/thundershower activity is likely over Assam & Meghalaya and Arunachal Pradesh.

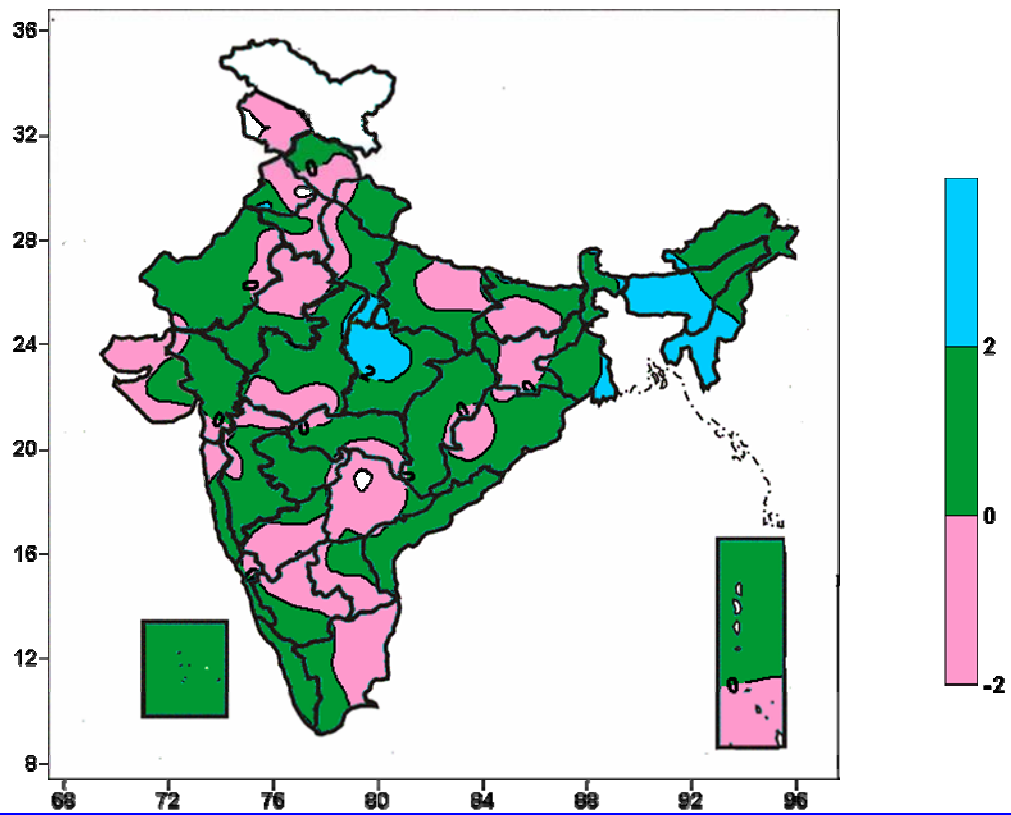
## Contour maps for the week ending 23<sup>rd</sup> April, 2008



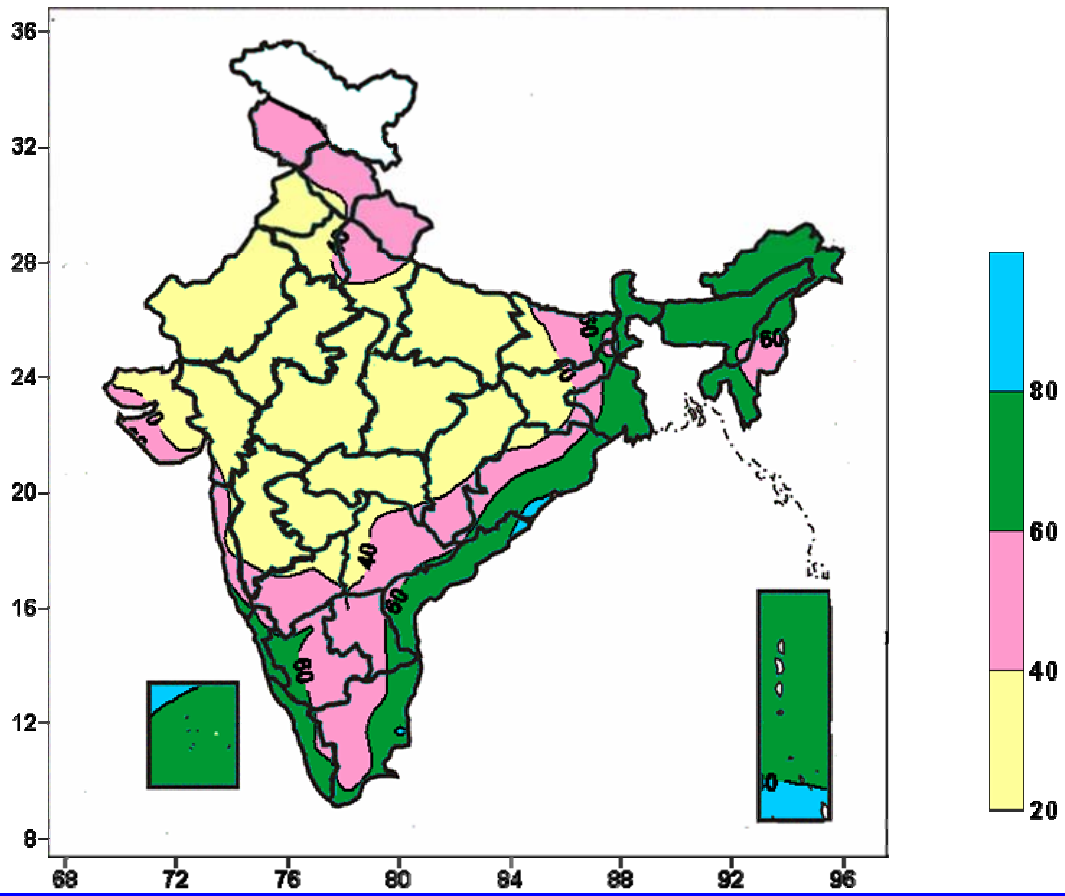
**Actual Mean Minimum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 23.04.08**



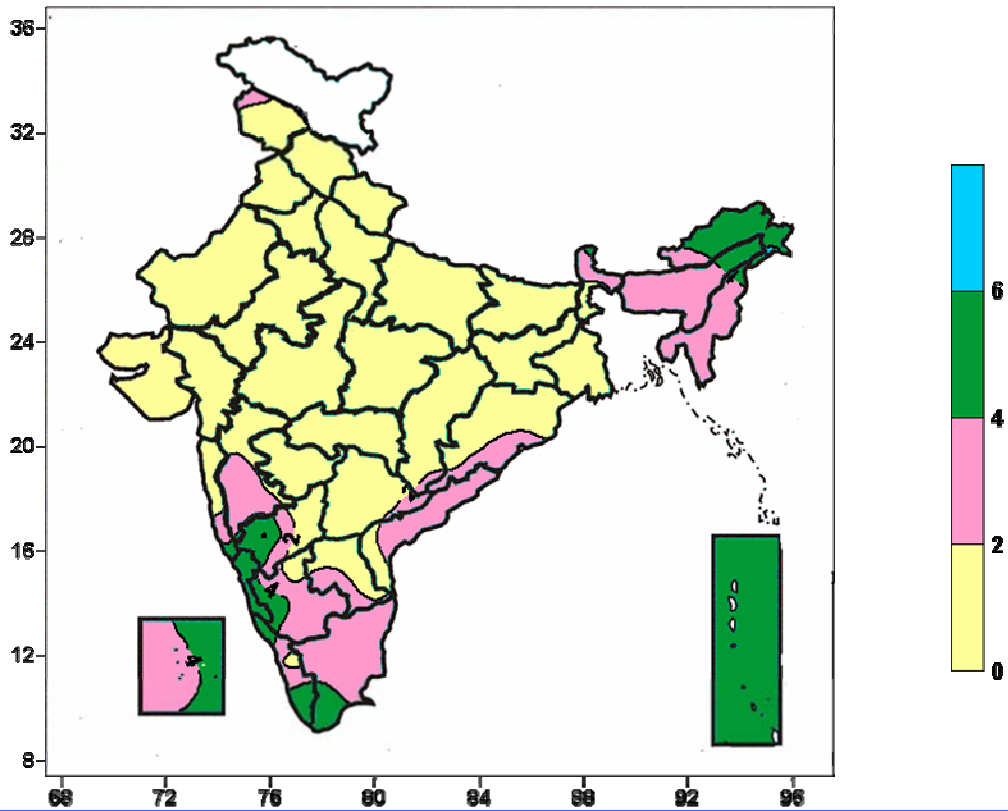
**Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly in India for the week ending 23.04.08**



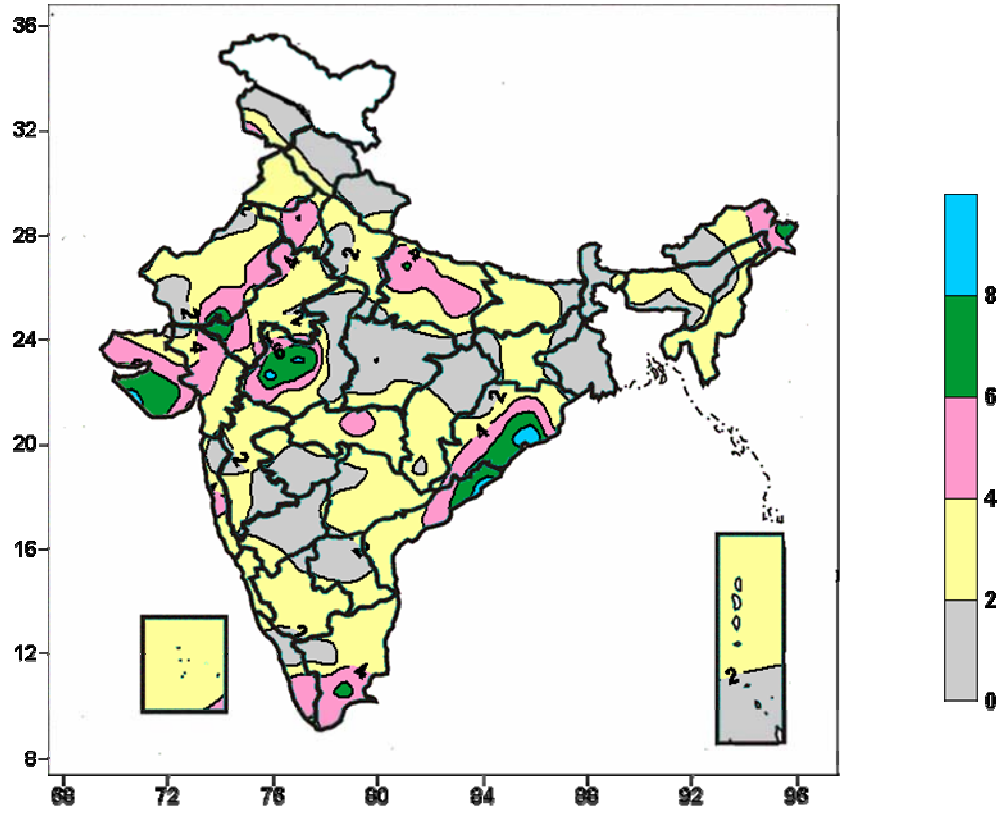
**Relative Humidity (%) over India for the week ending 23.04.08**



**Cloud amount (okta) over India for the week ending 23.04.08**



### Wind speed (knots) over India for the week ending 23.04.08





## Desert Locust Forecasting



Rainfall (mm)							
Station Name	17/04/08	18/04/08	19/04/08	20/04/08	21/04/08	22/04/08	23/04/08
<b>Amritsar</b>	06.0	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	00.0	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	17/04/08	18/04/08	19/04/08	20/04/08	21/04/08	22/04/08	23/04/08
<b>Amritsar</b>	20.0	23.5	24.5	-	27.0	27.0	27.5
<b>Barmer</b>	29.5	30.5	33.0	33.5	34.5	34.5	33.0
<b>Sriganganagar</b>	25.5	26.5	28.0	29.5	30.0	31.0	32.0
<b>Jaisalmer</b>	28.5	-	31.5	31.0	32.5	31.5	31.5
<b>Kota</b>	32.0	31.0	30.5	32.5	32.0	32.5	34.5
<b>Deesa</b>	31.0	29.5	29.5	30.5	31.5	31.5	30.0
<b>Churu</b>	26.0	27.0	29.0	30.5	31.0	33.0	32.5

## Wind

Station Name	17/04/08		18/04/08		19/04/08		20/04/08		21/04/08		22/04/08		23/04/08	
	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed
<b>Amritsar</b>	WNW	09	WNW	10	ENE	12	N	09	NW	11	NW	12	NNE	11
<b>Barmer</b>	ENE	17	NE	10	-	-	-	-	WNW	08	W	14	W	08
<b>Sriganganagar</b>	NNW	15	NNW	10	-	-	-	-	NNE	13	E	17	NNE	29
<b>Jaisalmer</b>	N	11	-	-	-	-	-	-	W	14	SW	30	SW	11
<b>Kota</b>	N	10	NNW	13	-	-	-	-	NNW	17	NW	17	N	10
<b>Deesa</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Churu</b>	N	10	NNE	09	-	-	-	-	NE	12	SSW	06	WNW	19

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

## CROP - STATE - STAGE

Delhi

Vegetables	Gram	Wheat	Barley	Fodder bajra and lobia
vegetative / flowering / fruiting/ harvesting	Harvesting	Harvesting	Harvesting	Land preparation/ sowing
<b>Haryana</b>				
<b>Autumn sugarcane</b>	<b>Horticultural crops</b>	<b>Sunflower</b>	<b>Wheat</b>	<b>Rabi Pulses</b>
Vegetative	Vegetative	Early vegetative	Maturity	Harvesting
<b>Oilseeds</b>				
Early vegetative				

### Himachal Pradesh

Vegetables (Ladies finger/ Cabbage, Cauliflower)	Ladies finger	Barley	Gram	Wheat
Vegetative/flowering/fruiting/harvesting	Fruiting/harvesting	Grain formation	Pod formation	Milk/dough /early maturity
<b>Potato</b>	<b>Oilseeds (Torai, Rapeseed and mustard)</b>			
Tuber formation	Pod formation			

### Jammu & Kashmir

Vegetable crops	Wheat	Pulses	Brown Sarson, Mustard	Barley, Oat
vegetative	Grain development - Jammu Grain formation/development- Kashmir	vegetative	Capsule maturity in Jammu Grain formation/development in Kashmir	Grain formation/development in-Kashmir Grain development/maturity- Jammu

### Punjab

Autumn sugarcane	Wheat	Summer pulses	Sunflower	Horticultural crops
Vegetative	Maturity/harvesting	Early vegetative	Early vegetative	Vegetative
<b>Oilseeds</b>				
Early vegetative/vegetative				

### Rajasthan

Wheat & barley	Gram	Early sown mustard, taramira	Potato	Summer Vegetable crops
Harvesting	Harvesting	Harvesting	Harvesting	Vegetative
<b>Cotton</b>				
Sowing				

### Uttar Pradesh

Sugarcane	Vegetables	Summer pulses	Sunflower	Mango
Cane maturity/harvesting	Fruiting / maturity	Early vegetative	Vegetative	Fruit setting
<b>Wheat</b>	<b>Summer Sugarcane</b>	<b>Oilseeds</b>		
Harvesting	Early vegetative	Vegetative		

### Uttarakhand

Mango/Litchi	Wheat	Sugarcane	Potato	Apple
Flowering/fruiting	Harvesting	Vegetative	Vegetative growth	Vegetative

### Assam

Regular Ahu rice	Maize	Horticultural plants	Boro rice	Summer vegetables
Broadcasted & Transplanted-Land preparation and sowing	Land preparation/ sowing	Planting	Flowering/milk/ dough	Vegetative / flowering /fruiting
<b>Early Ahu rice</b>	<b>Jute</b>	<b>Early sown Jute</b>		
tillering	Land preparation/ sowing	Germination / early vegetative		

### Arunachal Pradesh

Ginger	Rabi maize	Pea	Mustard	Wheat

Land preparation for sowing	Harvesting	Harvesting	Maturity/harvesting	Grain formation/maturity
<b>Rabi Vegetables</b>	<b>Jhum Rice</b>			
Harvesting	Land preparation			

#### Bihar

<b>Vegetables &amp; fruit crops</b>	<b>Maize</b>	<b>Summer rice</b>	<b>Other Rabi pulses</b>	<b>Wheat</b>
vegetative/fruiting	Maturity	Vegetative	Harvesting	Harvesting
<b>Sugarcane</b>	<b>Potato</b>			
Vegetative	Tuber formation			

#### Jharkhand

<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	Maturity/harvesting	Sowing

#### Sikkim

<b>Orange</b>	<b>Vegetables</b>	<b>Large Cardamom</b>	<b>Wheat</b>	<b>Mustard</b>
Fruiting	Sowing	Capsule formation	Harvesting	Harvesting
<b>Maize</b>				
Flowering				

#### West Bengal

<b>Sugarcane</b>	<b>Early Planted Sugarcane</b>	<b>Rabi Arhar</b>	<b>Groundnut</b>	<b>Green Gram</b>
Planting	Sprouting/early vegetative	Harvesting	Vegetative/flowering/pegging	Early vegetative / vegetative
<b>Boro rice</b>	<b>Wheat</b>	<b>Sesamum</b>		
Panicle initiation / flowering/ milk	Harvesting	Vegetative/flowering / pod formation		

#### Chhatisgarh

<b>Sugarcane</b>	<b>Sesame</b>	<b>Summer Rice</b>	<b>Vegetables</b>	<b>Wheat</b>
Autumn sugarcane – Vegetative	Flowering / pod formation	Flowering/ milk	Fruiting/harvesting	Harvesting
<b>Green gram</b>	<b>Sunflower and groundnut</b>			
Sowing	Flowering/pod formation/pegging			

#### Gujarat

<b>Sugarcane</b>	<b>Summer rice</b>	<b>Summer groundnut</b>	<b>Summer bajra</b>	
Vegetative	Tillering/ panicle initiation	Vegetative	Tillering	

#### Maharashtra

<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	Vegetative/flowering/ head formation	Fruit development/ fruit maturity/harvesting	Flowering/pod formation
<b>Potato (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Summer Rice</b>	<b>Summer bajra</b>	<b>Summer groundnut</b>	
Vegetative	Panicle initiation/flowering	Grain formation	Flowering/pegging/pod formation	

#### Madhya Pradesh

<b>Sugarcane</b>	<b>Summer Moong and Sugarcane</b>			
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Grand growth	Early vegetative			
<b>Orissa</b>				
<b>Vegetable crops</b>	<b>Rice</b>	<b>Sugarcane</b>	<b>Pulses</b>	<b>Oilseeds</b>
Flowering/fruitletting/harvesting	Grain formation	Vegetative	Harvesting	Harvesting
<b>Moong</b>				
Vegetative				
<b>Andhra Pradesh</b>				
<b>Rice</b>	<b>Groundnut</b>			
Harvesting	Pod maturity			
<b>Karnataka</b>				
<b>Early sown maize, sunflower</b>	<b>Annual sugarcane</b>	<b>Early kharif Crops</b>	<b>Rabi Cotton</b>	<b>Summer rice</b>
Grain formation /development/maturity	Active vegetative / tillering	sowing	End picking	Grain formation/milking
<b>Kerala</b>				
<b>Puncha rice</b>	<b>Rubber</b>	<b>Coconut</b>	<b>Banana</b>	<b>Pepper</b>
Harvesting	Planting	Land preparation for new planting	Planting	Land preparation for new planting
<b>Tamil Nadu</b>				
<b>Rice (Samba)</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 formation/development	Pod formation/ development	Grand growth
<b>Sorghum</b>				
Sowing				

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