



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

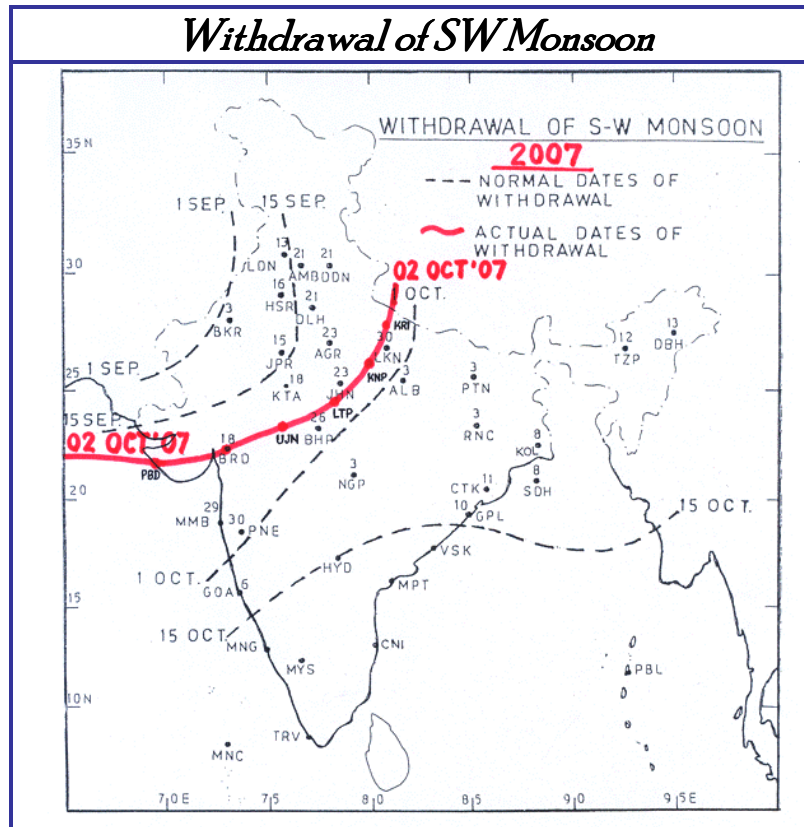
Issued by

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**Thursday, 4<sup>th</sup> October, 2007**

(For the period 4<sup>th</sup> to 8<sup>th</sup> October, 2007)

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



## *Agromet Advisory*

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

#### **Kerala**

- Southwest monsoon was weak over Kerala on 3<sup>rd</sup> October. Rain occurred at most places on 1<sup>st</sup>, at many places on 2<sup>nd</sup> and at isolated places on 3<sup>rd</sup> October.
- Isolated rain / thundershowers are likely over the State.

#### **Advisories**

- As sufficient rainfall occurred in Kannur, Kasargod, Kozhikode and Pathanamthitta districts during last week, postpone irrigation to plantation crops viz., coconut, arecanut, rubber and banana. Apply irrigation in the remaining districts.
- Continue intercultural operations, application of fertilizers and pesticides in plantation crops.
- Attack of rhinoceros beetle, red palm weevil, coried bug, leaf rot and stem bleeding is reported in coconut. Fill the leaf axils with 25 gm. Sevidol 8 G and fine sand 200 gm to control rhinoceros beetle. Use Pheromon trap @ 1 per two ha to monitor and destroy red palm weevil. Spray carbaryl @ 4 gm per litre of water to control coried bug. As a prophylactic measure spray crowns and leaves with 1% Bordeaux mixture or 0.5% copper oxychloride formulation or 0.4% Mancozeb. In the leaf rot affected plants, remove the rotten parts from the spear and the

two adjacent leaves and pour 300 ml fungicidal solution at the base of the spear which can be prepared by mixing 2 ml of hexaconazole 5 EC or mancozeb 3 gm in 300 ml of water. 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.

- Attack of pollu beetle is reported in pepper. Spray Quinalphos @ 0.05% to control pollu beetle.
- Attack of pink disease is reported in rubber. Clean the affected portion and apply Bordeaux paste @ 1%.
- Continue land preparation for transplanting of *mundakkan* rice. Lime application @ 350 kg per ha may be done during ploughing. Undertake transplanting and apply pre-emergence herbicide Butachlor @ 1 litre/ha.

### **Tamilnadu**

- Rainfall occurred at a few places over North Tamilnadu, at one or two places over South Tamilnadu on 1<sup>st</sup> October, at one or two places over Tamilnadu on 2<sup>nd</sup> and 3<sup>rd</sup> October.
- Rain / thundershowers are likely at isolated places over the State.

### **Advisories**

- As there was no significant rainfall in the State except Kanchipuram, Thiruvannamalai, Thiruvarur and Villupuram districts during last week and rain/thundershowers are likely at isolated places over the State for the next three days, apply irrigation to sugarcane and early sown maize, groundnut, black gram, green gram and pulses. Postpone irrigation in the above mentioned districts as there was sufficient rainfall during last week.
- Monitor sugarcane for stem borer and if the pests population crosses ETL, release *Trichogramma* egg parasite @ 5cc / acre to control the pest.
- Continue sowing of rainfed groundnut, black gram, green gram and red gram. Use 112 kg pods / ha for groundnut and 20 kg / ha for pulse crops.
- Continue planting of special season sugarcane. Undertake sett treatment with *Azotobacter* before planting. Continue harvesting late sugarcane.
- Continue sowing rainfed millet crops like jowar, bajra and samai. Undertake seed treatment with *Azospirillum* before sowing.
- Continue picking of matured cotton bolls on bright sunny days. Picking may be done at early morning hours to maintain quality of kapas.

### **Karnataka**

- Rainfall occurred at many places over Coastal Karnataka and at a few places over South Interior Karnataka.
- Rain/thundershowers are likely at isolated places over the State.

### **Advisories**

- As there was no significant rainfall over the state during last week except in Coastal Karnataka and rain / thundershowers are likely at isolated places over the State for the next three days, apply irrigation to summer sugarcane, *Kharif* jowar, maize, cotton, groundnut and sunflower. Postpone irrigation in the coastal Karnataka as there was sufficient rainfall during last week.
- Monitor groundnut for red hairy caterpillar. Undertake plant protection measures to control the pest at the early stage.
- Monitor sugarcane for white woolly aphids and release predators *viz.*, *Dipha* sp. adopt wider spacing, inter-cropping with soyabean and pulses of short duration to control the pest.

### **Andhra Pradesh**

- South West monsoon was vigorous over Telangana on 30<sup>th</sup> September and active over Coastal Andhra Pradesh and Rayalaseema on 30<sup>th</sup> September. Rain occurred at a few places over

Coastal Andhra Pradesh on 29<sup>th</sup> September, 2<sup>nd</sup> October and over Telangana on 29<sup>th</sup> September, 1<sup>st</sup> and 2<sup>nd</sup> October. Isolated rain occurred at elsewhere over the state during the week.

- Rain/thundershowers are likely at many places over Coastal Andhra Pradesh during next 48 hrs and decrease thereafter. Isolated rain/thundershowers are likely over the rest region of the State.

#### **Advisories**

- Postpone irrigation to *kharif* crops viz., groundnut and cotton in coastal Andhra Pradesh as rain / thundershowers are likely at many places over Coastal Andhra Pradesh with isolated heavy rainfall during next 48 hrs. Provide adequate drainage facilities in the standing crops to avoid water logging.
- As there was sufficient rainfall in Adilabad, Karimnagar, Mahabubnagar, Medak, Nalgonda and Nizamabad districts in Telangana during last week, postpone irrigation to the crops. Apply irrigation in the remaining districts as there was no significant rainfall occurred during last week and only isolated rain/thundershowers are likely over Telangana and Rayalaseema.
- Monitor rice for gall midge and leaf folder. To control gall midge apply Carbofuran 3G @ 10 kg per acre. To control leaf folder, spray Monocrotophos @ 1.6 ml or Chloropyriphos @ 2.5ml per litre of water.
- Monitor cotton for sucking pests and *Spodoptera* and if the damage crosses ETL, spray Monocrotophos @ 1.6ml or Acephate @ 1.5g or Imidacloprid@ 0.4 ml per litre of water to control sucking pests (thrips). To control early stage larvae of *Spodoptera*, spray Chloropyriphos @ 2.5ml or Thiodocarb @ 1.5 ml of Carbaryl @ 3g per litre of water.
- Monitor groundnut for Tikka leaf spot. To control tikka leaf spot in groundnut, spray Carbendazim @ 1g + Mancozeb @ 2.5 g or Hexaconazole @ 2ml per litre of water.
- Spraying of chemicals may be undertaken after current spells of rain in Coastal Andhra Pradesh and continued in Telangana and Rayalaseema.
- Undertake intercultural operations in *kharif* crops to keep the field weed free. Intercultural operations may be undertaken after current spells of rain in Coastal Andhra Pradesh and continued in Telangana and Rayalaseema.

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

#### **Assam**

- Light to moderate rain occurred at a few places on 1<sup>st</sup>, 2<sup>nd</sup> October and at isolated places on 3<sup>rd</sup> October and isolated heavy falls on 1<sup>st</sup> October.
- Isolated rain/thundershowers are likely over the State during next 48 hrs and increase thereafter.

#### **Advisories**

- As rain is likely to occur over the State during next 4 – 5 days, postpone irrigation to arhar, black gram and green gram.
- Maintain 3 – 5 cm water in *Sali* rice field.
- *Sali* rice and early winter vegetables are damaged in few localities due to flood. After receding of flood water second dose of urea @ 3 kg per bigha should be top dressed in the rice field.
- Continue harvesting of matured crop of sugarcane. Red rod infested sugarcane may be harvested early and the field should be newly planted. Ratooning of infested plant should be discarded.
- Incidence of hispa and stem borer was noticed in *Sali* rice in few localities. Monitor the infestation of hispa and stem borer. If one adult is noticed per hill, insecticides like Chloropyriphos 20 E.C. @ 2 ml per litre of water or Monocrotophos 40 EC @ 1.5 ml per litre

of water is to be applied. For management of yellow stem borer *Trichogramma Japonicum* @ 50,000 per hectare in six releases are to be used.

- In black gram and green gram, monitor the crops for aphids, jassids and flea beetle attack. Undertake spraying of Malathion 50 EC @ 2 ml/litre of water, if required.
- Apply chemicals within 48 hours as rain is likely to increase after that.
- Prepare land for early variety of winter vegetables such as spinach, reddish & coriander etc. and seeds of hybrid varieties of tomato, brinjal, capsicum, cauliflower and cabbage etc. may be collected from reputed sources and should be sown in the seed bed for raising seedling for planting in the main fields. Damaged seedbed should be resown after preparation of land properly.

### **Arunachal Pradesh**

- Light to moderate rain / thundershowers occurred at few places on 1<sup>st</sup> and 2<sup>nd</sup> October & light rain occurred at one or two places on 3<sup>rd</sup> October over the State.
- Isolated rain/thundershowers are likely over the State during next 48 hrs and increase thereafter.

### **Advisories**

- As rain is expected in next 3-5 days, postpone irrigation to the crops.
- Continue weeding, spraying and intercultural operations in millet, *jhum* paddy and ginger crops.
- Undertake surveillance of rodent outbreak in *jhum* paddy and millet.
- Continue land preparation and sowing of potato, mustard and wheat.
- Continue land preparation and nursery sowing of rabi vegetables like Cauliflower, Chinese cabbage, Carrot, Knol-khol, Lettuce, Methi, Palak, Peas, Radish, Tomato, Turnip etc.

### **Bihar**

- Light rainfall occurred on 2<sup>nd</sup> & 3<sup>rd</sup> October during last week. Rainfall occurred at most places on rest days.
- Isolated rain / thundershowers is likely over the State.

### **Advisories**

- Postpone irrigation to arhar and sugarcane as there was sufficient rainfall in Dharbhanga, East Champaran, Gaya, Madhubani, Monghyr, Muzzafarpur, Patna, Rohtas, Saharsa, Samastipur, Sitamarhi, Vaishali and west Champaran districts during last week. Apply irrigation in the remaining districts as there was no sufficient rainfall during last week and only isolated rain / thundershower is likely over the State.
- Continue sowing of raddish, early cauliflower, chillies, potato, fodder maize and arhar, castor & tomato.
- Top dressing of nitrogen @ 20 Kg / ha after weeding to rice can be done.
- To control sheath blight of rice, spray 1 litre of Hexaconazole mixed in 700 litre of water, twice at the interval of 15 days.

### **Jharkhand**

- Isolated rain/thundershowers are likely over the State during next 48 hrs and increase thereafter.
- **Outlook for subsequent two days:** Fairly wide-spread rainfall with isolated heavy to very heavy falls is likely over parts of the State.

### **Advisories**

- Postpone irrigation to vegetables, maize, arhar, groundnut, soybean and urad as rain is expected in next 4-5 days.

- Monitor rice for gundhi bug. If damage exceeds ETL, spray 25 kg Chlorpyrifos dust per hectare. Apply chemicals within 48 hours as rain is likely to increase after that.
- Monitor maize crop for stem borer infestation and if exceeds economic threshold level, about 10 granules of carbofuron should be applied in earhead. After weeding, top dressing of urea @ 75 kg urea per hectare may be applied and carry out earthing up. Apply topdressing of urea @ 75 kg / ha for maize. Application of fertilizers and pesticides may be done within 48 hours as rain is likely to increase after that.
- Continue land preparation and sowing of pea and potato.

### **Sikkim**

- Moderate rain occurred at many places on 29<sup>th</sup> October. Very light to light rain occurred at a few places in East Sikkim during rest of the days except on 30<sup>th</sup> October when weather was mainly dry.
- Isolated rain / thundershowers are likely over the State during next 48 hrs and increase thereafter.
- **Outlook for subsequent two days:** Fairly widespread rainfall with isolated heavy to very heavy falls is likely over parts of the State.

### **Advisories**

- As rain is expected in next 4-5 days, postpone irrigation to orange and ginger crops.
- Maintain water level of 3-4 cm in rice to enable maximum tillering.
- Complete harvesting of matured vegetable crops.
- Continue harvesting of large cardamom. Monitor ginger for rhizome rot and bacterial wilt and rouge out the affected plants and destroy completely to prevent further damage.
- Monitor orange for fruit flies. Prepare baits made of Sevin and keep once in every 10-15 days till harvesting.
- Continue land preparation and nursery sowing of *rabi* vegetable crops like cabbage, cauliflower, carrot and beet root.

### **West Bengal**

- Rainfall occurred at a few places during the period from 1<sup>st</sup> October to 3<sup>rd</sup> October over Sub Himalayan West Bengal. Rainfall occurred at isolated places during the period from 1<sup>st</sup> October to 3<sup>rd</sup> October over Gangetic West Bengal.
- Rain / thundershowers are likely at isolated places during next 48 hours and increase thereafter over the State.
- **Outlook for subsequent two days:** Fairly widespread rainfall with isolated heavy to very heavy falls is likely over the State.

### **Advisories**

- As rain is likely to occur over the State during next 4 – 5 days, postpone irrigation to the standing crops.
- Maintain 3 – 5 cm water in the field of *aman* rice.
- There is mild chance of attack of sheath blight, sheath rot and blast disease in *aman* rice. If 6 hills out of 20 hills are affected by sheath blight or 5 % panicles are affected by sheath rot, apply propiconazole 25% @ 1 ml or hexaconazole 5% @ 1.5 ml or carbendazim 50% @ 1 g / litre of water to control the diseases. If 25% hills are affected by blast disease, apply tricyclozol 75% @ 0.5 ml or carbendazim 50% @ 1 ml or adiphosphos 50% @ 1 ml / litre water to control the disease. Apply chemicals within 48 hours as rain is likely to increase after that.

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

### **Gujarat**

- South West monsoon withdrawn from northern parts of Gujarat state on 2<sup>nd</sup> October.
- Mainly dry weather is likely to prevail over the State.

### **Advisories**

- As mainly dry weather is likely to prevail over the State for next three days, apply irrigation to the standing crops.
- Maintain 5 – 6 cm water in rice field.
- In some places cotton crop is infested with mealy bug. Monitor the crop for mealy bug and if damage exceeds ETL, to control the pest spray Methyl-dimeton 25 EC @ 10 ml or Phosphamidon 85 EC @ 5 ml or Dimethoate 30 EC @ 10 ml in 10 liters of water.
- Apply Carbofuran 3% @ 25 kg/ha or Cartap hydrochloride 4% @ 20 kg/ha for the control of stem borer in rice and Monocrotophos @ 12 ml or DDVP @ 5 ml or Trizophos @ 10 ml in 10 liters of water for control of sucking pests, if insect population crosses economic threshold level.
- Birds may damage maize crop at maturity stage. The matured cobs can be protected from attack of birds by tying the cobs with leaves of same plant. Shining coloured strips may also be used to scare the birds.

### **Chhattisgarh**

- Rainfall occurred at many places on 1<sup>st</sup> October, at one or two places on 2<sup>nd</sup> October and at a few places on 3<sup>rd</sup> October in the State.
- Isolated rain/thundershowers are likely over the State.

### **Advisories**

- As there was good amount of rain in Janjgir, Jashpurnagar, Korba, Koriya, Mahasumund, Raipur and Surguja districts during last week, postpone irrigation to the crops. As there was no significant rain during last week in remaining districts of the State and isolated rain/thundershowers are likely to occur during next three days, apply irrigation to the crops in these districts.
- Maintain 3 – 5 cm water in *kharif* rice field. Undertake top dressing of nitrogen to long duration varieties.
- 4 – 5 plants of sugarcane may be tied together to prevent lodging from gusty wind.
- In late transplanted rice crops the incidence of roller / case worm is noticed particularly in low lying areas. For effective control of these insects spraying of Ekalux or Endosulphon or Chlorpyrifos @ 1500 ml or Monocrotophos @ 1000 ml per hectare in 400-500 liter of water is recommended.
- In areas where incidence of brown plant hopper and case worm / leaf roller is noticed in rice every year, spraying of Emidachlopride @ 100 ml per hectare or Chlorpyrifos @ 1.5 to 2.0 liter per hectare is recommended in place of granular insecticides.
- Incidence of blast / sheeth rot is reported in rice for some parts. To protect the crop from blast spraying of Beam (fungicide) @ 6 gm per 10 liter of water or Hinosan @ 1 ml per liter of water and for Sheeth rot Phytoton / Blitox / Diathane M 45 or Bavastin @ 1.5 gm per liter is advised.
- Sowing of Ramtil and Kulthi may be done when sufficient moisture remains in the soil.

### **Maharashtra**

- Rain occurred at a few places in South Konkan & East Vidarbha and at isolated places in South Madhya Maharashtra & West Vidarbha. Mainly dry weather prevailed in North Madhya Maharashtra & Marathwada.

- Rain / thundershowers are likely to occur at isolated places over South Konkan. Mainly dry weather is likely to prevail over rest of the State.

### Advisories

- As there was no significant rain in most of the districts of the State & rain / thundershowers are likely to occur at isolated places over South Konkan and mainly dry weather is likely to prevail over rest of the State during next three days, apply irrigation to the standing crops.
- Maintain 3 – 5 cm water in the rice field.
- Mild incidence of white woolly aphids in Kolhapur division and solapur district in sugarcane, sap sucking insects in Aurangabad, Amravati and Latur, aphids & jassids in Amravati & Nagpur and aphids, jassids, thrips in Nashik division in irrigated cotton, blast, leaf roller, blue beetle and stem borer in Konkan & blast in Kolhapur & Nagpur division in *kharif* rice and hairy caterpillar in Aurangabad and Pune division in *kharif* sunflower is reported.
- Monitor sugarcane for White Woolly Aphids & if exceeds economic threshold level, for effective control spray 500 ml Endosulphan 35%+ Metasystox 1000 ml & 500 ml Sticker or 500 gm detergent powder / ha in 500 liters of water. For the biological control of White Woolly Aphids, release 25000 larvae of *Chrysoperla carnea* or *Dipha aphidivora* / ha as predator after 15 days from the above dose.
- For the control of Sap sucking insects and aphids, jassids & thrips in irrigated cotton, spray 5 % Neem extract or release 10,000 to 15000 larvae of *Crysoperla carnea* and if infestation exceeds economic threshold level, spray 30 % WSC Diamethoate 1000 ml or 25 % WSC Methyl dimeton 320 ml / ha in 500 liters water.
- Monitor *kharif* rice for Blast & if exceeds economic threshold level, spray Bavistin 500 gm / ha in 500 liters water.
- Monitor *kharif* rice for Stem borer & if exceeds economic threshold level, apply 10G Foret (Granular) or 5 G Quinolphos powder @ 15 kg / ha or spray 50 % fenitrothion @ 800 ml / ha in 500 liters water.
- Water may be drained out from *kharif* rice field before the application of plant protection measures & may be applied again after 24 hours of application of plant protection measures.
- Monitor *kharif* sunflower for hairy caterpillar & if exceeds economic threshold level, spray 5 % Neem extract or 25 EC Quinolphos @ 1000 ml or 36 EC Endosulphan @ 1000 ml / ha in 500 liters water.
- This is the proper time for sowing of *rabi* jowar and safflower. Select varieties from from Selection-3 for low fertile soil, Maldandi, Mauli, Phule chitra, SPV-86 for Madhya Maharashtra, SPV-669, AKSV-13-R for Vidarbha & PKV-809, SPV-1411 for Marathwada for medium & black soil for *rabi* jowar and Girna for Khandesh, Sharda for Marathwada, Bhima, JLSF-414 for Madhya Maharashtra & AKS-207 for Vidarbha for safflower.

### Madhya Pradesh

- South West Monsoon has been withdrawn from some parts of North West M.P. on 2<sup>nd</sup> October.
- Mainly dry weather is likely over the State.

### Advisories

- As there was no significant rainfall during last week except in Damoh, Jabalpur, Katni, Satna, Seoni, Guna, Khargone, Ratlam, and Shajapur districts and mainly dry weather is likely over the State for the next three days, apply irrigation to sugarcane and other *kharif* crops viz., soybean, maize, urd and jowar(in grain formation stage). Postpone irrigation in the above districts as there was sufficient rainfall during last week.
- Undertake intercultural operation in sugarcane and *kharif* crops to keep the field weed free.
- Monitor rice for stem borer and if the damage crosses ETL, spray Methyl parathion @ 350 ml / ha.

## **Orissa**

- Rainfall occurred at a few places over Orissa during the period.
- Rain/thundershowers are likely at many places over the state.

### **Advisories**

- As rain/thundershowers are likely at many places over the state for the next three days, with isolated heavy rainfall over Coastal Orissa during next 48 hours, postpone irrigation to the crops. Provide adequate drainage facilities to avoid water logging.
- Monitor sugarcane for top shoot borer and if the damage exceeds ETL, undertake spraying of Monocrotophos or Triazophos or Prefonophos @ 400 ml/acre after current spells of rain.
- Monitor rice for blast and sheath blight. To control blast spray Tricyclazole @ 1gm / litre of water or Ediphenphos @ 1 ml / litre of water and to manage sheath blight spray Validamycin @ 2 ml per litre of water or Hexaconazole @ 1 ml / litre of water after current spells of rain.
- Monitor vegetables for leaf spot. To manage leaf spot in vegetables spray Mancozeb M-45 @ 3 g per litre of water after current spells of rain.
- Undertake sowing of moong and urd. Select P.D.M.-54, PDM-11, TARM-1 varieties in moong, and T-9, PU-19, PU-30 in urd. Apply 8 Kg N, 16 Kg P & 8 Kg K / ha as basal dose. Apply fertilizers after current spells of rain.

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

### **Punjab**

- SW Monsoon has withdrawn from remaining parts of the state on 2<sup>nd</sup> October. Weather remained mainly dry in the state during the period. Current weather pattern indicates dry weather conditions in the state in next 2-3 days. Farmers are advised that farming operation be arranged accordingly.
- Mainly dry weather is likely over the State.

### **Advisories**

- As mainly dry weather is likely over the State for the next three days, apply irrigation to sugarcane, cotton, groundnut and horticultural crops.
- Maintain 5 cm standing water in rice field where the crop is in grain formation stage.
- Continue picking of cotton and harvesting of pulses on bright sunny days.
- Continue sowing of toria.
- Monitor the sugarcane crop for stem borer infestation & if exceeds economic threshold level, for effective control sprinkle Endosulfan 5 percent granules in the leaf whorls and axils.

### **Haryana**

- SW Monsoon has withdrawn from remaining parts of the State on 2<sup>nd</sup> October.
- Weather remained mainly dry in the State during the period.
- Mainly dry weather is likely over the State.

### **Advisories**

- As mainly dry weather is likely over the State for the next three days, apply irrigation to sugarcane, groundnut and Horticultural crops.
- Incidence of *pyrilla*, top borer, black bug and shoot borer in sugarcane reported below ETL.
- Sowing of toria should be completed with 21.5 kg seed of TL-15 or TL-37 with 50 kg P<sub>2</sub>O<sub>5</sub>. Prefer Super phosphate for application. Before sowing of toria apply pre sowing irrigation.
- Continue picking of cotton and harvesting of pulses on bright sunny days.
- Monitor the sugarcane crop for stem borer infestation & if exceeds economic threshold level, for effective control sprinkle Endosulfan 5 percent granules in the leaf whorls and axils.



## **Rajasthan**

- Monsoon has withdrawn from entire Rajasthan
- Mainly dry weather is likely to prevail over the State.

### **Advisories**

- As there was no significant rainfall in most of the districts during last week except in Banswara, Baran and Jhalawar in East Rajasthan and mainly dry weather is likely to prevail over the State for the next three days, apply irrigation to *Zaide* fodder and cotton. Postpone irrigation to the crops in above mentioned districts.
- Start harvesting of already matured *kharif* crops viz., bajra, jowar, maize, guar, moong, moth bean and urd.
- Monitor *desi* and *American* cotton for leaf eating caterpillar. If the pests population crosses ETL, spray Endosulphan @ 1.25 litres / ha to control the pests.

## **Uttar Pradesh**

- Weather was mainly dry in all divisions of Uttar Pradesh.
- Mainly dry weather is likely over West Uttar Pradesh and isolated rain / thundershowers are likely over East U.P.

### **Advisories**

- As mainly dry weather is likely over West U.P and only isolated rain/thundershowers is likely in East U.P for the next three days, apply irrigation to the crops.
- Continue sowing of toria.
- Continue sowing/transplanting of winter vegetable crops. Proper drainage arrangements for avoiding water logging in turmeric may be done.
- Monitor the white grub in sugarcane, to control plant the small branches of neem and people around the field to catch white grub and collect insects and to destroy, spray the solution of 0.5% Monocrotophos.
- Maintain 3 – 5 cm water level in transplanted rice and undertake top dressing of urea.
- To control Anthracnose disease in mango, spray the solution of Copper Oxychloride @ 3 g / litre of water and to control gummosis in mango tree mix Copper Sulphate @ 250 gm, Zinc Sulphate @ 250 gm, Borax @ 125 gm and Slake lime @ 100 gm in the soil and light watering as per requirement may be done.
- Monitor rice for gundhi bug and if the pest population crosses ETL, dust Malathion 5% @ 20 kg/ha.

## **Himachal Pradesh**

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

### **Advisories**

- As there was no significant rainfall over the State during last week and rain/thundershowers are likely at isolated places over the State for the next three days, apply irrigation to vegetables crops.
- Maintain 3 – 5 cm water in rice field. Care should be taken to avoid making holes by rats. If holes are seen, they should be plugged so that water may stand in the field.
- 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.
- Harvest already matured fruits of apple.

- Continue harvesting of matured crop of potato. Haulm cutting is recommended to the area where crop is being grown for seed potato and occurrence of late blight disease is apprehended.
- Continue harvesting of matured crop of maize. Grains having moisture content below 30% can be harvested and should not be allowed to stand in the field any more to avoid the damage by birds or animals.
- Birds may damage maize crop at maturity stage. The matured cobs can be protected from attack of birds by tying the cobs with leaves of same plant. Shining coloured strips may also be used to scare the birds.

### **Uttarakhand**

- Moderate to heavy rain was recorded at many places on 27<sup>th</sup> September while light to moderate rain was recorded at many places on 29<sup>th</sup> September & at isolated places on 28<sup>th</sup> September, Very light rain was recorded at a few places on 30<sup>th</sup> September, while weather remained dry on rest of the days of the week.
- Mainly dry weather is likely over the State.

### **Advisories**

- As there was sufficient rainfall in most of the districts during last week, postpone irrigation to sugarcane, potato and ginger.
- Undertake intercultural operations, to keep the field weed free in potato, sugarcane, rice and in orchards.
- Undertake field preparation and sowing of toria / pea.
- Monitor rice for stem borer and if the pests population crosses ETL, spray Methyl parathion @ 350 ml / ha to control the pest
- Monitor ginger for rhizome rot and collect and destroy the affected plants completely to prevent further damage.

### **Jammu & Kashmir**

- Weather remained mainly dry over J&K divisions.
- Rain/thundershowers are likely at isolated places over the State.

### **Advisories**

- As there was no significant rainfall in most of the districts during last week and rain/thundershowers are likely at isolated places over the State for the next three days, apply irrigation to maize, vegetable and fruit crops in Kashmir division and to maize and pulses in Jammu division.
- Maintain 5 cm standing water in rice field. Drain out water from the field 10 – 15 days before harvesting.
- Continue sowing of cabbage, cauliflower and knoll-khol with seed rate of 500g, 500 g and 250 g respectively and sowing of carrot radish, carrot, turnip, garlic and spinach in Jammu division.
- Prepare land for sowing of pea, lentil, chickpea etc. in Kashmir division.
- Prepare land for sowing of brown sarson in Kashmir division. Select land which possesses drainage facilities. Irrigate the land before ploughing, wherever the fields are not in proper moisture condition. Tow ploughings accompanied by clod breaking operation will be adequate for obtaining a desire seed bed. Start sowing by first week of October. Adopt seed rate of 8 kg / ha. Apply 30 kg N, 30 kg P<sub>2</sub> O<sub>5</sub> and 20 kg K<sub>2</sub>O per ha as basal dose at the time of last ploughing.
- Prepare land for sowing of gobe sarson crop (varieties: GSL-I, DGS-I) and early sown mustard crop in Jammu division in irrigated as well as rainfed areas.

### **Delhi**

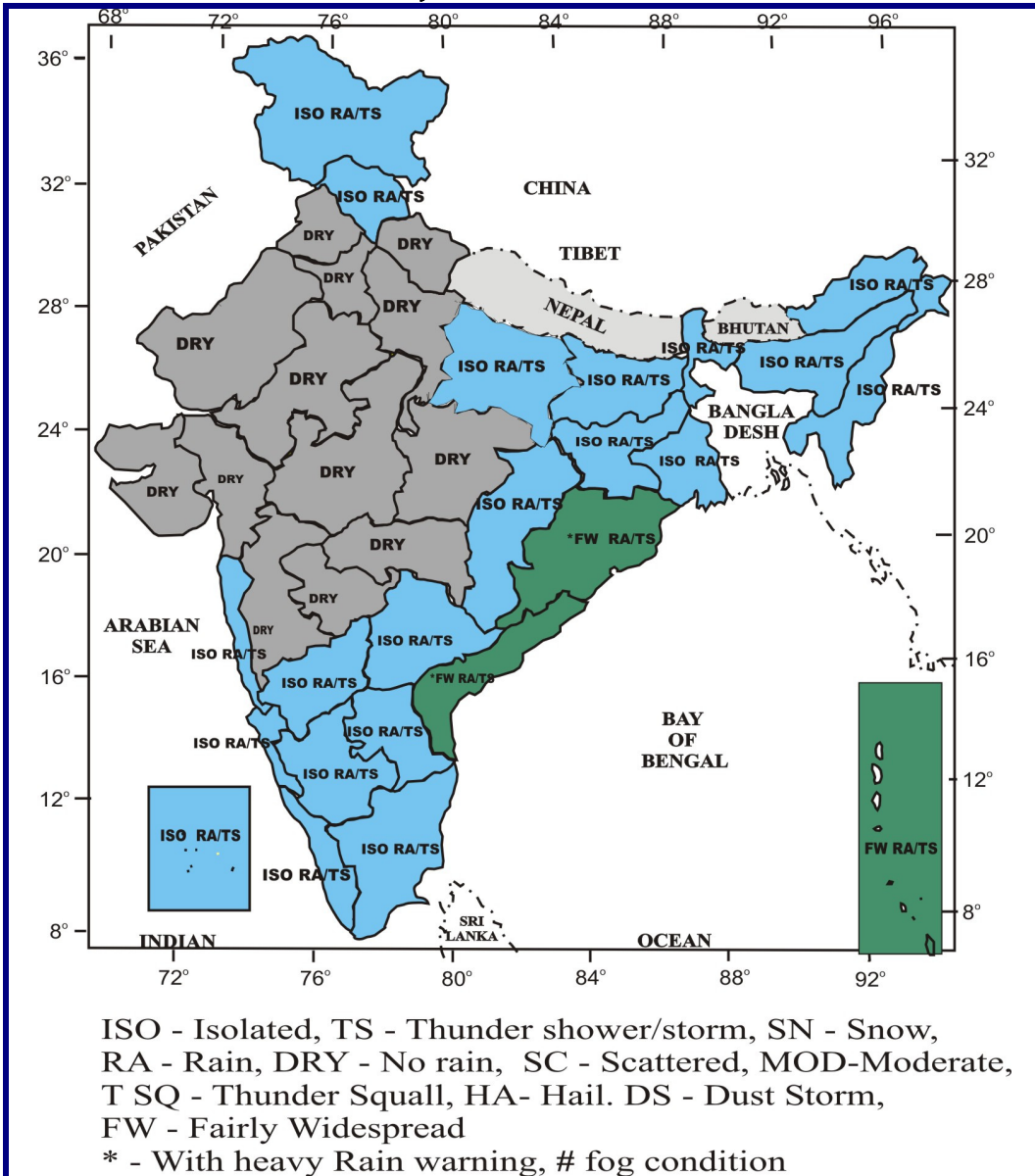
- Weather remained mainly dry.

- Mainly dry weather is likely over the State.

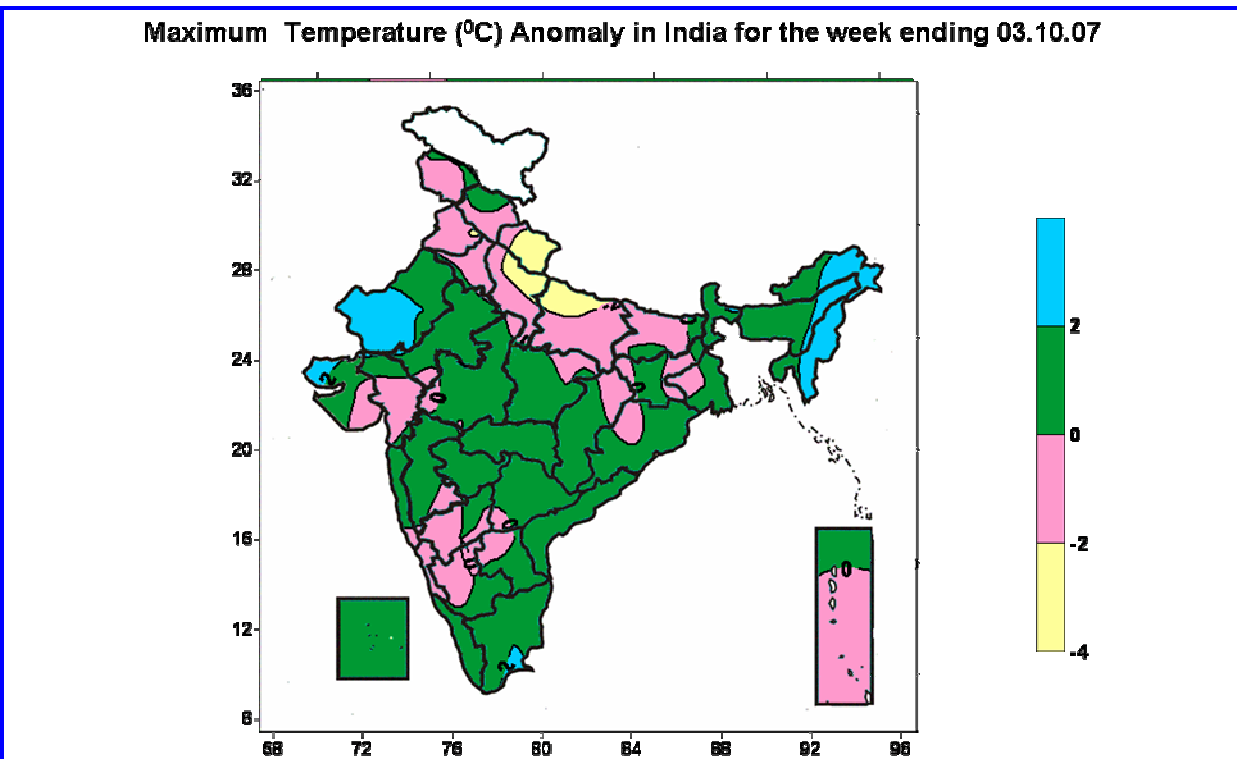
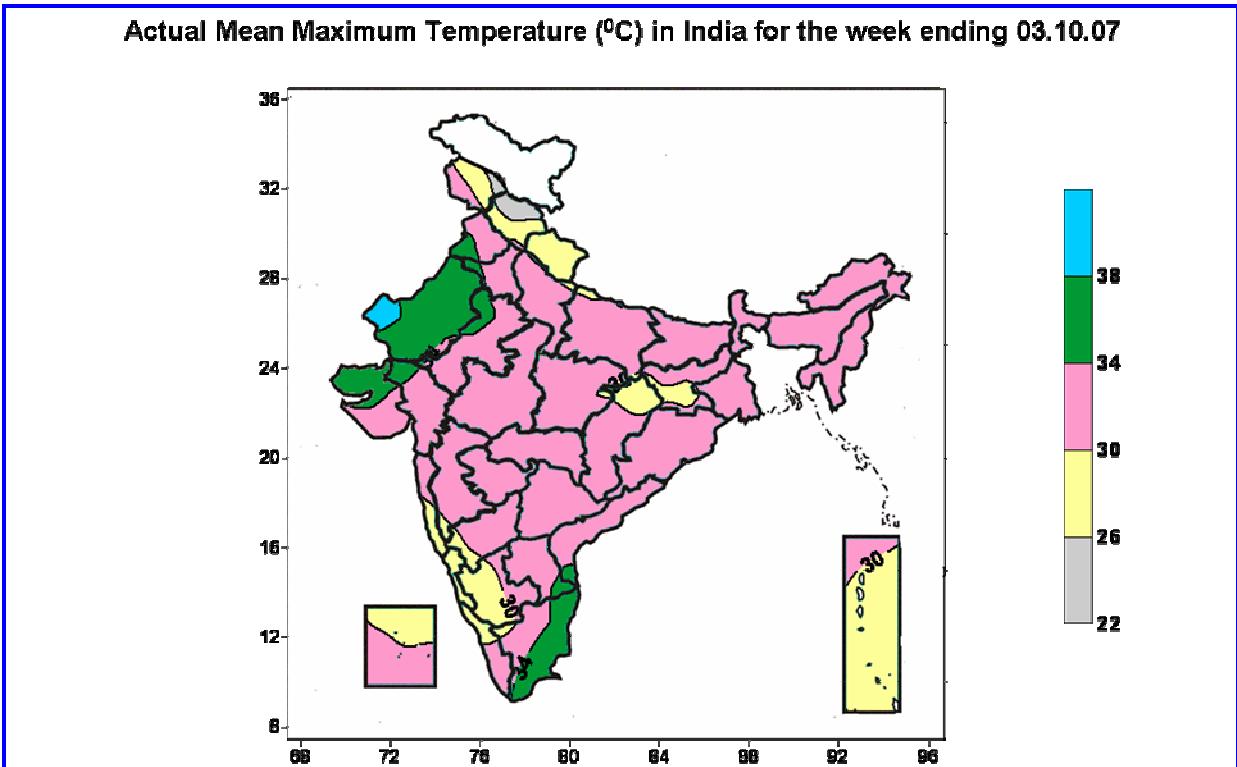
#### **Advisories**

- As there was no significant rainfall in the State during last week and mainly dry weather is likely over the State for the next three days, apply irrigation to vegetables, maize and bajra.
- Maintain 3 – 5 cm water in the rice field.
- Prepare land and undertake transplanting of 5 – 6 weeks old seedlings of vegetables.
- Start nursery sowing of cabbage variety like Snowball and continue sowing varieties of raddish like Pusa Desi and Rasmi, carrot like Pusa kashar and turnip variety like Pusa Kanchan.
- Prepare field and undertake sowing of toria. Use varieties like Type1, Sangam, TL-15 and Ludhiana composite.
- Prepare field and undertake sowing of mustard. Use varieties like Pusa bold, Pusa Barani, T-59 (Varuna) and Pusa Kalyani etc.
- Monitor rice for bacterial leaf blight and if exceeds economic threshold level, apply streptocycline @ 15 g / ha.
- If ergot disease is seen on ear heads of bajra, collect and destroy completely to prevent further spread and damage.
- Birds may damage maize crop at maturity stage. The matured cobs can be protected from attack of birds by tying the cobs with leaves of same plant. Shining coloured strips may also be used to scare the birds.

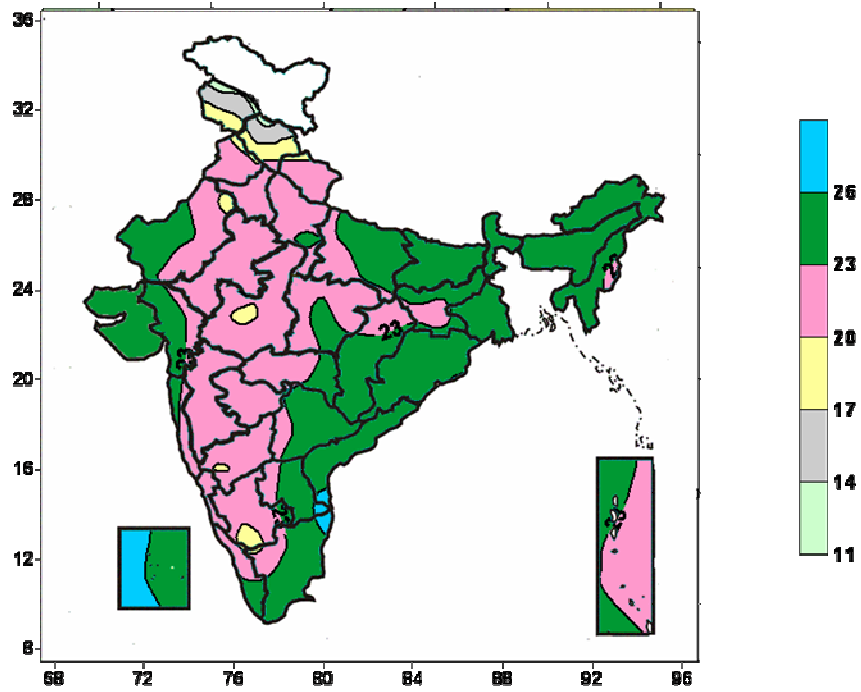
*Forecast Map*  
*Valid upto 7th October 07*



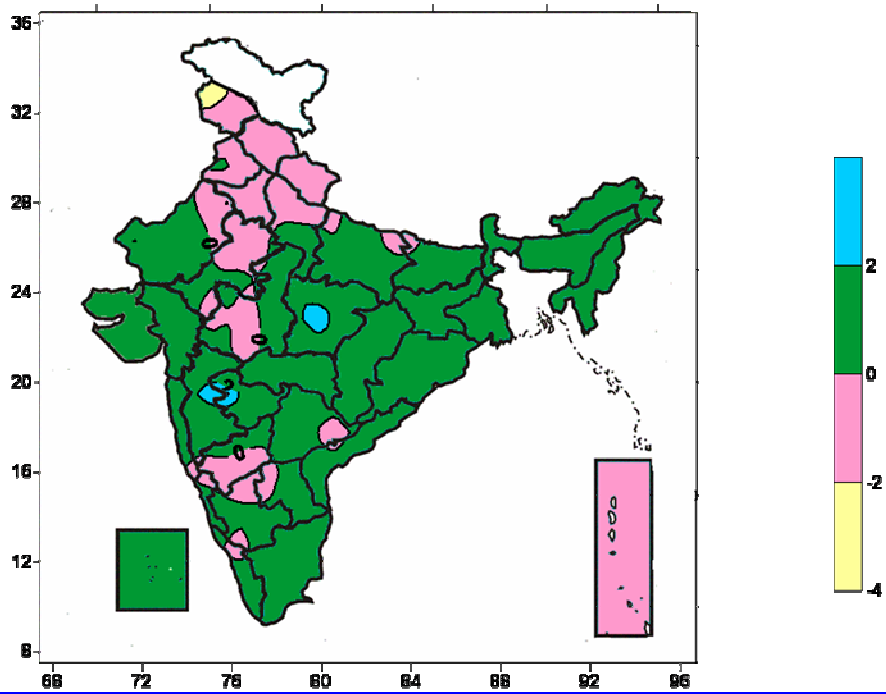
## Contour maps for the week ending 3rd October, 2007



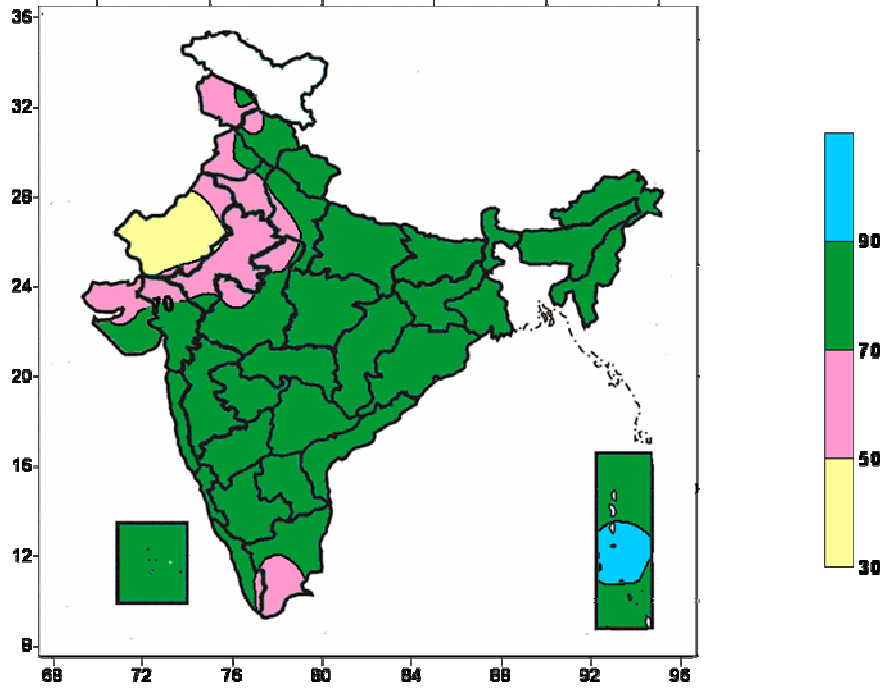
Actual Mean Minimum Temperature ( $^{\circ}\text{C}$ ) in India for the week ending 03.10.07



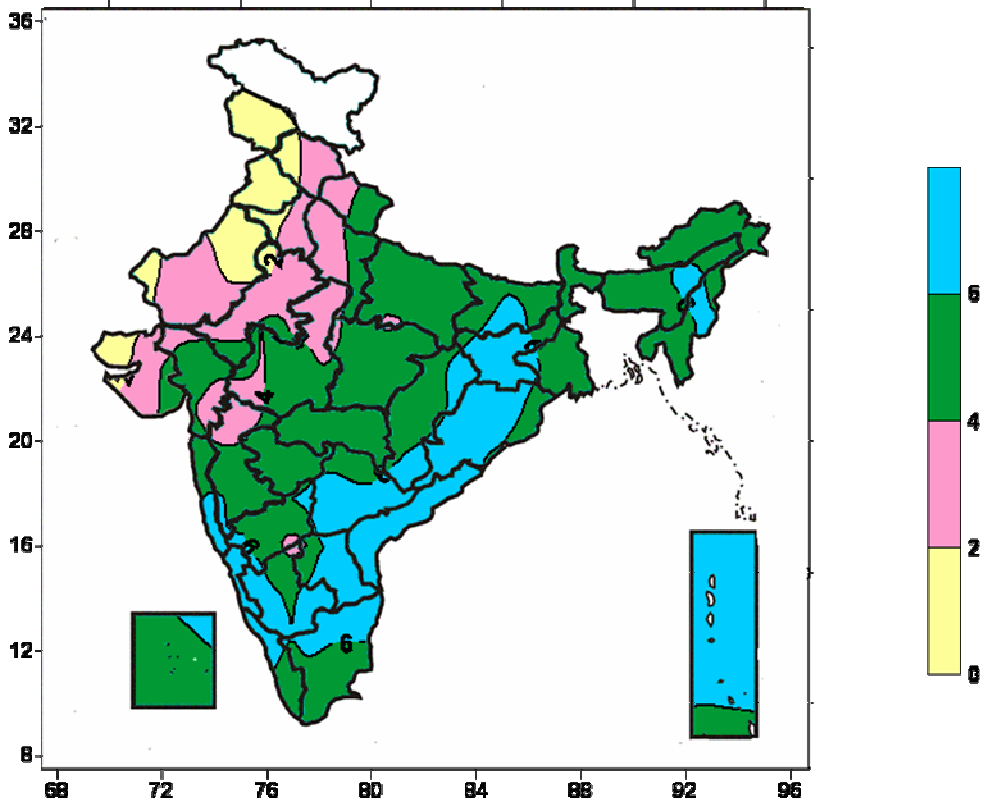
Minimum Temperature ( $^{\circ}\text{C}$ ) Anomaly In India for the week ending 03.10.07



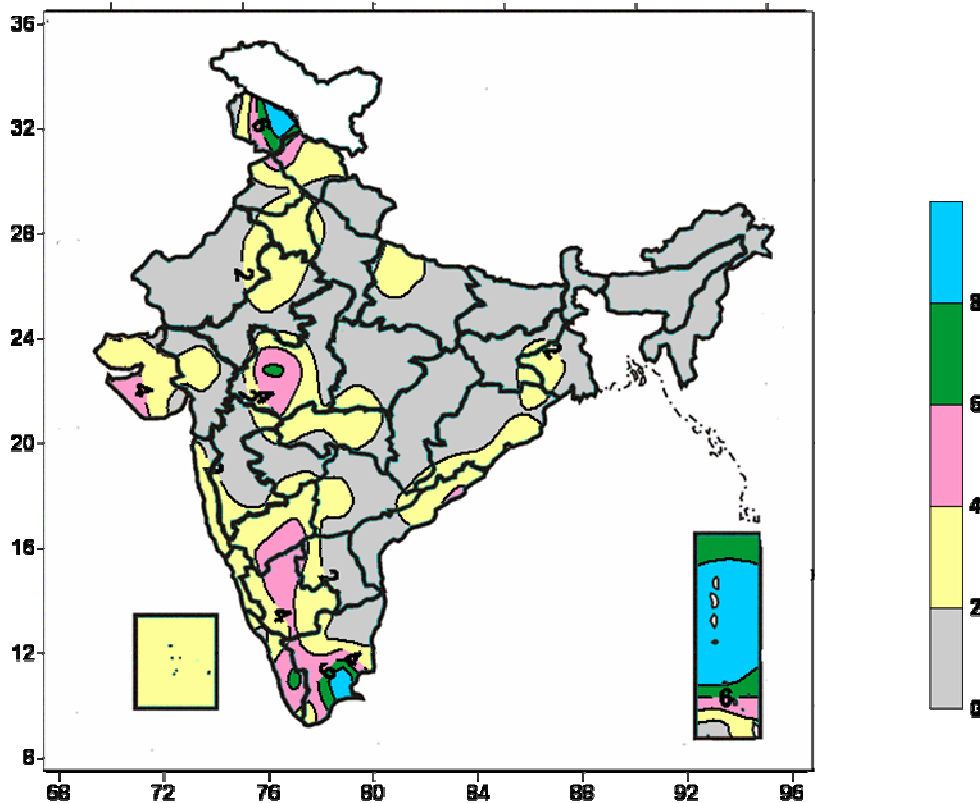
Relative Humidity (%) over India for the week ending 03.10.07



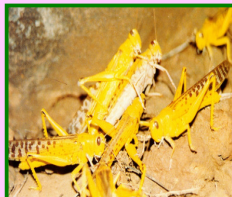
Cloud amount (okta) over India for the week ending 03.10.07



### Wind speed (knots) over India for the week ending 03.10.07



### *Desert Locust Forecasting*



Temperature (degree Celcius)							
Station Name	27.09.07	28.09.07	29.09.07	30.09.07	1.10.07	2.10.07	3.10.07
<b>Amritsar</b>	28.0	29.0	26.5	25.0	27.0	25.5	-
<b>Barmer</b>	30.0	31.0	32.0	33.0	32.5	33.0	-
<b>Sriganganagar</b>	28.5	29.0	28.0	28.0	28.5	28.0	-
<b>Jaisalmer</b>	31.0	32.5	31.0	32.0	31.0	30.5	-
<b>kota</b>	28.0	28.5	29.0	29.5	28.5	29.0	-
<b>Deesa</b>	28.5	30.5	31.5	30.0	29.5	29.5	-
<b>Churu</b>	-	-	-	-	-	-	-

RAINFALL							
-	27.09.07	28.09.07	29.09.07	30.09.07	1.10.07	2.10.07	3.10.07
<b>Amritsar</b>	0	0	0	0	0	0	0
<b>Barmer</b>	0	0	0	0	0	0	0
<b>Sriganganagar</b>	0	0	0	0	0	0	0
<b>Jaisalmer</b>	0	0	0	0	0	0	0
<b>Kota</b>	0	0	0	0	0	0	0
<b>Deesa</b>	0	0	0	0	0	0	0
<b>Churu</b>	0	0	0	0	0	0	0

Seasonal rains have ended in summer breeding areas along the **Indo-Pakistan** border. 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	Early sown vegetables	Rice	Arhar	Maize
Transplanting	Vegetative	Grain formation / early maturity	Seed maturity/ harvesting	Cob formation/ maturity
<b>Bajra</b>	<b>Toria</b>	<b>Mustard</b>		
Grain formation/ maturity	Sowing	Sowing		

### Haryana

Sugarcane	Horticultural crops	Kharif Pulses	Cotton	Paddy
Vegetative	Vegetative	Harvesting	Picking	Grain formation / maturity
<b>Kharif Groundnut</b>	<b>Cauliflower/ Raddish/ Chillies</b>			
Vegetative	Sowing			

### Himachal Pradesh

Vegetables (Ladies finger/ Cabbage, Cauliflower)	Potato	Apple	Rice	Maize
Vegetative/ head formation Ladies finger -- Flowering/Fruiting	Maturity	Maturity/Harvesting	Grain formation/ maturity	Maturity / harvesting

### Jammu & Kashmir

Vegetable crops	Rice	Maize	Pulses	Palak / Methi / Dhania
Fruiting/harvesting—in Kashmir Div.	Maturity - Kashmir div. Milking - Jammu div.	Cob formation / maturity	Flowering/ pod formation	Sowing

### Punjab

Sugarcane	Horticultural crop	Kharif pulses	Cotton	Paddy
Vegetative	Vegetative	Pod harvesting	Boll maturity / picking	Grain formation / maturity
<b>Kharif Groundnut</b>	<b>Cauliflower, raddish, chillies</b>			
Vegetative	Sowing			

### Rajasthan

Kharif crops(Bajra, Maize, Guar, Moong, Moth bean, Urd)	Zaide Fodder	Cotton		
Maturity/ harvesting	Vegetative	Flowering / boll formation		

### Uttar Pradesh

Sugarcane	Kharif Vegetables	Mango	Rice	Toria
Vegetative	Flowering / fruiting	Vegetative	Flowering / grain formation	sowing
<b>Kharif oilseeds</b>				
Flowering/ seed formation				

### Uttarakhand

Apple	Ginger	Sugarcane	Potato	Kharif Rice
Harvesting	Rhizome development	Grand growth	Tuber growth	Flowering / milking
<b>FingerMillet/ Amranthus</b>	<b>Mango/Litchi</b>	<b>Toria / pea</b>		
Flowering / grain formation	Seedling	Sowing		

### Assam

Early winter vegetables	Sugarcane	Arhar	Sali rice	Black Gram & Green Gram
Land preparation & sowing	Maturity / harvesting	Vegetative	Tillering / vegetative	Vegetative
<b>Early sown Black Gram &amp; Green Gram</b>				
Early vegetative				

### Arunachal Pradesh

<b>WRC Rice</b>	<b>Ginger</b>	<b>Millet</b>	<b>Jhum Paddy</b>	<b>Winter / Rabi crops</b>
Flowering	Rhizome maturity	Grain formation/ maturity	Grain formation	Sowing

### Bihar

<b>Vegetables &amp; fruit crops</b>	<b>Maize</b>	<b>Arhar</b>	<b>Sugarcane</b>	<b>Kharif rice</b>
Sowing	Maturity/ harvesting	Vegetative	Vegetative	Vegetative/ flowering

### Jharkhand

<b>Kharif rice</b>	<b>Ragi</b>	<b>Vegetables (Tomato, Brinjal, Bhendi)</b>	<b>Upland crops (Maize, arhar, groundnut, soybean, urad, rice and ragi)</b>
Flowering	Transplanting	Sowing Early sown – Early vegetative	Vegetative / flowering
<b>Pea</b>	<b>Potato</b>		
Sowing	Planting		

### Sikkim

<b>Orange</b>	<b>Vegetables</b>	<b>Large Cardamom</b>	<b>Ginger</b>	<b>Rice</b>
Maturity	Nursery sowing	Capsule maturity/ harvesting	Flowering/rhizome	Active tillering / panicle initiation

### West Bengal

<b>Sugarcane</b>	<b>Groundnut</b>	<b>Arhar</b>	<b>Aman rice</b>	
Cane development	Pod formation/ early maturity	Vegetative	Tillering / panicle initiation	

### Chattisgarh

<b>Sugarcane</b>	<b>Black gram, Green Gram</b>	<b>Soybean</b>	<b>Kharif Rice</b>	<b>Maize</b>
Vegetative	Pod formation/ early maturity	Pod formation/ early maturity	Tillering / booting / panicle initiation	Silking/ tasseling/ cob formation
<b>Groundnut</b>	<b>Tomato, Brinjal, Chilli</b>			
Pod formation/ early maturity	Vegetative			

### Gujarat

<b>Sugarcane</b>	<b>Kharif Rice</b>	<b>Castor</b>	<b>Kharif Groundnut</b>	<b>Kharif Cotton</b>
Cane development	Flowering/ milking	Vegetative	Pod formation/ early maturity	Boll formation/ boll maturity
<b>Kharif Maize</b>	<b>Kharif Bajra</b>			
Cob formation/ early maturity	Milking/ early maturity			

### Maharashtra

<b>Sugarcane Preseasonal (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)</b>	<b>Irrigated cotton (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif Rice (Konkan)</b>	<b>Kharif Rice (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>
Active growth / elongation	Active growth	Boll formation/ boll maturity	Flag leaf initiation / panicle initiation/ grain formation	Flag leaf initiation/ panicle initiation
<b>Kharif Jowar (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif Bajra (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif Groundnut (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif Sunflower (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	
Flowering / grain formation	Grain maturity / harvesting	Pegging / pod formation	Head formation/ seed maturity	
<b>Kharif Cotton (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif Tur (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Kharif Soybean (Madhya Maharashtra, Marathwada &amp; Vidarbha)</b>	<b>Rabi Jowar</b>	<b>Rabi safflower</b>
Flowering / boll formation	Branching	Pod formation / harvesting	Sowing	Sowing.

**Madhya Pradesh**

<b>Sugarcane</b>	<b>Kharif crops (maize, urd and jowar)</b>	<b>Kharif rice</b>	<b>Soyabean</b>	<b>Cotton</b>
Grand growth	Grain formation/ maturity stage	Grain formation	Pod formation/ maturity stage	Flowering/ boll formation

**Orissa**

<b>Kharif vegetables</b>	<b>Kharif rice</b>	<b>Sugarcane</b>	<b>Arhar</b>	
Vegetative / fruiting	Flowering / grain formation	Vegetative	Vegetative	

**Andhra Pradesh**

<b>Kharif Rice</b>	<b>Kharif Maize</b>	<b>Kharif Cotton</b>	<b>Kharif Groundnut</b>	<b>Kharif Black gram, Green gram</b>
Grain formation	Harvesting	Flowering / boll formation	Pegging / pod formation	Harvesting

**Karnataka**

<b>Sugarcane (Ratoon crop)</b>	<b>Kharif Sunflower</b>	<b>Groundnut</b>	<b>Kharif maize &amp; Jowar</b>	<b>Cotton</b>
Grand growth	Grain formation	Peg formation	Grain formation/ maturity stage	Boll maturity / picking
<b>Rabi Jowar/Maize/Cotton/Sunflower</b>				
Field preparation and Sowing				

**Kerala**

<b>Rubber</b>	<b>Mundakkan Rice</b>			
Tapping	Transplanting			

**Tamil Nadu**

<b>Rice (Samba)</b>	<b>Sugarcane (Early, Mid and Late season)</b>	<b>Maize</b>	<b>Groundnut/Black gram/Green gram/Red gram</b>	<b>Cotton</b>
Samba- Early vegetative	Grand growth Late Sugarcane- Harvesting	Early vegetative / vegetative	Sowing	Picking
<b>Jowar/Bajra/Samai</b>	<b>Special season sugarcane</b>	<b>Early sown maize</b>	<b>Early sown Groundnut/Black gram/Green gram/Red gram</b>	
Sowing	Planting	Early vegetative / vegetative	Early vegetative	

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