



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

Thursday, 15th March, 2007

(For the period 15th March to 19th March, 2007)

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

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

Punjab

Widespread rainfall with moderate to rather heavy rainfall intensity accompanied with hailstorm / strong wind has been realized in the state in past three days.

Mainly dry weather is likely over the State. Gradual rise in both day & night temperatures is likely over the State from tomorrow onwards.

Advisories

- There was excess rainfall during last week except Fatehgarh Sahib and Muktesar districts in the State and mainly dry weather is likely over the State for the next three days. Under the circumstance, postpone irrigation to **rabi oilseeds, summer sunflower, wheat and horticultural crops**. Apply required irrigation in the above mentioned districts.
- Undertake planting of early maturing varieties of **sugarcane** i.e. COJ 64, COH 56 and COH 92 and mid season CO 7717, COH 99 and COS 8436. For planting select only 2/3rd portion of healthy cane free from diseases. Recommended seed rate for one hectare is 34800 two budded setts or 23200 three budded setts weighing about 30 quintal.
- Monitor **rabi oilseeds** for **aphid** attack and if the pest population crosses ETL, spray Dimecron @ 250 ml / ha or Methyl Demiton @ 850 ml / ha after 2-3 days.
- Spray one litre Endosulfan 35 EC in 650 litres of water after 2-3 days to control **aphids** in **wheat**.
- Monitor the **pulse** crops for **pod borer** attack and if the pest population crosses ETL, spray Endosulphan @ 500-750 ml / ha.
- Arrange extensive drainage in **wheat** fields particularly in low lying pocket to avoid further damage due to lodging.

Haryana

Widespread rainfall with moderate to rather heavy rainfall intensity accompanied with hailstorm / strong wind has been realized in the State in past three days.

Mainly dry weather is likely over the State. Gradual rise in both day & night temperatures is likely over the State from tomorrow onwards.

Advisories

- There was excess rainfall during last week except Mahendragarh district in the State and mainly dry weather is likely over the State for the next three days. Under the circumstance, postpone irrigation to **rabi oilseeds, summer sunflower, wheat and horticultural crops**. Apply required irrigation in **Mahendragarh** district.
- Undertake planting of early maturing varieties of **sugarcane** i.e. COJ-64, COH 56 and COH 92 and mid season CO 7717, COH 99 and COS 8436. For planting select only 2/3rd portion of healthy cane free from diseases. Recommended seed rate for one hectare is 34800 two budded setts or 23200 three budded setts.
- Continue sowing of **sunflower**.
- Attack of **rust** is reported in **wheat**. For controlling **brown** and **yellow rust** spray with Indofil Z-78 @ 800 g / acre in 200 liters water after 2-3 days.

Rajasthan

Rain / thunderstorm along with rain occurred with hailstorm at many places in the state.

Mainly dry weather is likely over the region. Rise in both day & night temperatures by 2-3⁰C likely over the State.

Advisories

- Apply irrigation to **wheat** as mainly dry weather is likely over the State for the next three days. Conserve moisture in **mustard, gram, cumin** and **barley** field as the crops are now at maturity stage.
- Weather conditions are congenial for the attack of aphids in **mustard**, pod borer in **gram** and aphids, powdery mildew and blight in **cumin**. Avoid spraying as the crops are now at maturity stage.
- Monitor **wheat** for termite attack and apply Endosulfan 35EC @ 2.285 litres / ha or Chloropyriphos 20 EC @ 4 litres / ha to control termite.

Uttar Pradesh

Very light rain occurred at Varanasi, Faizabad and Agra divisions and mainly dry in remaining divisions of U.P. on 12th, light to moderate rain occurred at most places in Gorakhpur, Varanasi, Faizabad, Lucknow and Agra divisions and weather was mainly dry in remaining divisions of U.P. on 13th and light to moderate rain occurred at a few places in all divisions of U.P. on 14th March.

Mainly dry weather is likely over west U.P. Gradual rise in both day & night temperatures is likely over West U.P. from tomorrow onwards. Mainly dry weather is likely over East U.P. Fall in night temperatures by 2-3⁰C during next 48 hours in East U.P.

Advisories

- As there was excess rainfall during last week in the State, postpone irrigation to **wheat** and **winter vegetable crops** in **Gazipur, Baghpat, Etah, Ghaziabad, Saharanpur** and **Saharanpur** districts and apply light irrigation depending on the soil profile stored moisture in **Allahabad, Ambedkarnagar, Azamgarh, Bahraich, Banda, Faizabad, Gonda, Gorakhpur, Kanpur city, Kheri, Lucknow, RaiBareilly, Sitapur, Sonbhadra, Sultanpur** and **Varanasi, Agra, Aligarh, Bijnor, Etawah, Firozabad, Jalaun, Jhansi, Mahamaya Nagar, Mathura, Meerut** and **Moradabad** districts. As there was no significant rainfall in remaining districts and mainly dry weather is likely over the State for the next three days apply irrigation to the crops.
- To control the violet spot disease in **onion** spray the solution of Mancozeb 0.2% @ 2gm / liter.
- Monitor **mango** for hopper and if the pest population crosses ETL, spray the solution of 1 ml Fenitrothion or Diazenon @ 2 ml / litre in water.
- Harvesting of **winter vegetables, rabi oilseeds** and **sugarcane** may be continued.
- Continue the sowing of **summer urd, moong, maize, sunflower** and **sugarcane**.

Himachal Pradesh

Precipitation occurred at many places.

Mainly dry weather is likely over the State. Gradual rise in both day & night temperatures is likely over the State from tomorrow onwards.

Advisories

- As there was excess rain / snow during last week over the State, postpone irrigation to the crops.
- Continue land preparation and nursery sowing and transplanting of **cauliflower** and **cabbage** in low and mid hills and sowing of **bhindi**.
- There is mild chance of attack of **pod borer** in **gram**. If attack crosses economic threshold level, spray Monocrotophos (Monocil 36 EC/SL) or Carbaryl 50 WP (Sevin) @ 875 ml or Endosulfan 35 EC (Thiodan/Hindon/Endocel) @ 1250 ml in 625 litres of water per ha. Spraying can be repeated at 15 days interval, if the pest still persists.
- Farmers are advised to arrange for smoking around the field to save the crops from cold injury. Also wipe out water droplets on the leaves by pulling rope from the two sides of field. This will prevent formation of ice

crystals during night time.

Uttarakhand

Very light rain was recorded at a few places on 10th March & 11th March, moderate rain was recorded at many places on 12th March and 14th March, moderate to heavy rainfall on 13th March and moderate to rather heavy rain on 14th March while mainly dry weather prevailed during rest of the week. Sky remained mainly clear to overcast during the period.

Mainly dry weather is likely over the State. Gradual rise in both day & night temperatures is likely over the State from tomorrow onwards.

Advisories

- There was excess rain in the State during last week except in Garhwal Pauri district and mainly dry weather is likely over the State for the next three days. Under the circumstances, postpone irrigation to **mango**, **potato** and **wheat** crops. Apply irrigation in the Garhwal Pauri district.
- Undertake planting of **potato** in hilly areas.
- Field preparation may be started for sowing / ratooning of **sugarcane**.

Jammu & Kashmir

Heavy to very heavy rain / snow occurred at most places on 12th & 13th March. Light to moderate rain / snow again occurred at most places on 14th March over J & K State.

Isolated rain / snow is likely over the state from the night of 17th March. Gradual rise in both day and night temperatures is likely over the State from tomorrow onwards.

Advisories

- Drain out standing water immediately from the fields of **vegetable crops**, **wheat** and **brown sarson** as heavy to very heavy rain / snow occurred at most of the places during last week.
- There are chances of cold / frost injury to horticultural crops in Jammu and Kashmir. In order to protect the crops from cold/frost injury, farmers are advised to undertake the following measures.
 - Arrange for smoke near the field to safeguard the crops from cold / frost injury.
 - Wipe out water droplets on the leaves by pulling rope from the two sides of field. This will prevent formation of ice crystals during night time.
- Rouge out loose smut and flag smut affected **wheat** and **barley** crops in Jammu and destroy them completely to prevent further spread.
- Undertake intercultural operations, application of fertilizers and pesticides in **wheat**, **vegetable crops** and **brown sarson** in Kashmir division. Apply nitrogen @ 20 kg/ha through top dressing to **wheat** in Kashmir division.
- Complete sowing of **bhindi**, **beans**, **cucurbits** and **fruit crops** in Jammu division. Continue sowing of **cucurbits** in poly bags.

Delhi

Moderate rain occurred at most places on 12th and 13th march. Very light rain occurred at many places on 14th march.

Mainly dry weather is likely over the State. Gradual rise in both day & night temperatures is likely from tomorrow onwards.

Advisories

- As there was excess rainfall during last week over the State, postpone irrigation to the crops like **vegetables**, **wheat**, **barley**, **gram** and **mustard**.
- Harvest **mustard** crop on bright sunny days when 80% siliqua are at maturity stage.
- Prepare land and perform sowing of **pumpkin**, **ladies finger**, **beans** and **Spinach**.

- Use Parbani Kranti, Pusa Savnee and Pusa Sadabahar varieties of **ladies finger** and Pusa Jyoti variety of **spinach** for sowing.
- Monitor red pumpkin beetle in **cucurbits** and if attack exceeds economic threshold level, spray carbaryl 50% WP @ 750 – 1000 gms / ha.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Rain / thundershowers occurred at isolated places on 12th & 13th March. Dry weather prevailed on 14th March.

Isolated rain / thundershowers likely over Kerala.

Advisories

- Apply irrigation to plantation crops and **puncha rice** as rain / thundershower is likely to occur only at isolated places for the next three days over the State.
- Attack of **leaf folder**, **stem borer** and **gall midge** is reported in **puncha rice**. Spray Carbaryl @ 2 kg / ha to control the pests.
- Attack of **bunchy top** disease is reported in banana. Apply Phorate 10G @ 12.5 gm or Carbofuran 3G @ 10 gm / plant in leaf axil or Phorate @ 25 gm or Carbofuran @ 20 gm / pit in soil at 165 days after planting. Eradicate the bunchy top disease affected plants.
- Protect the plantation crops from **scorching** by applying lime.

Tamilnadu

Rainfall occurred at isolated places over South Tamilnadu and dry weather prevailed over North Tamilnadu on 13th and 14th and dry weather prevailed over Tamilnadu on 12th March.

Isolated rain / thundershowers are likely over south Tamil Nadu. Mainly dry weather is likely over the rest region of the State.

Advisories

- Apply irrigation to **rice**, **millets**, **sunflower**, **pulses**, **cotton** and **groundnut** as there was no significant rainfall for the past few weeks and rain / thundershower is likely to occur only at isolated places over south Tamil Nadu for the next three days.
- Monitor early **sugarcane** crop for **shoot borer** and if the pests population crosses ETL, spray Endosulfan or Monocrotophos @ 1.5 litres / ha to control the pest.
- Start land preparation and sowing of summer **gingelly**. Adopt 5 kg / ha seed rate for sowing. Apply M.N. mixture or Manganese Sulphate @ 5 kg / ha after sowing.

Karnataka

Dry weather prevailed over the State on 12th and 14th March. Rainfall occurred at isolated places over South Interior Karnataka and dry weather prevailed over Coastal Karnataka and North Interior Karnataka on 13th March.

Mainly dry weather is likely over the State.

Advisories

- Apply irrigation to **summer groundnut**, **sunflower**, **sugarcane** and **rice** as there was no significant rainfall during last few weeks and mainly dry weather is likely to prevail for the next three days.
- Monitor rice for **leaf roller**, **stem borer** and **thrips** and if the pest population crosses ETL, undertake plant protection measures.
- Monitor **groundnut** for **leaf miner** and if the pest population crosses ETL, undertake plant protection measures.
- Monitor **sugarcane** for **wooly aphids** in Mysore, Mandya and Hassan districts and if the pest population crosses ETL, release *Dipha sp.*, adopt wider spacing, inter-cropping with **soyabean** and pulses of short duration.

Andhra Pradesh

Isolated rain occurred over Coastal Andhra Pradesh on 11th&12th March. Dry weather prevailed over the state

during the period.

Mainly dry weather is likely over the State.

Advisories

- Conserve moisture in **groundnut** as the crop is now at maturity stage.
- Attack of blast is reported in **rice**. Spray Hinosan 50 EC @ 1 ml / litre of water to control the disease.
- Continue harvesting of matured crops of **Bengal gram, maize and red gram**.

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

Assam

Weather was mainly dry over the State during the period.

Isolated rain / thundershowers are likely over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rain in all the districts of the State during last week and isolated rain / thundershowers are likely over the State during next 24 hours and mainly dry weather thereafter, apply irrigation to **wheat** wherever crops are at dough stage.
- Maintain 3 – 5 cm water at tillering stage in the **boro rice** field.
- Mild incidence of **Hispa, Brown Plant Hopper, Yellow stem borer and blast and sheath blight diseases in rice** is reported in a few localities.
- Monitor attack of **Hispa, Brown Plant Hopper and blast and sheath blight diseases in boro rice**. If attack crosses economic threshold level, to control **Hispa and Brown Plant Hopper** insecticides like Chloropyriphos 20 E.C. @ 1.5 ml per litre of water or Phosphamidon @ 1ml per litre of water is to be applied. For management of **yellow stem borer, Trichogramma Japonicum** @ 50,000 per hectare in six releases is to be used. For control of **Blast** diseases as soon as 1 or 2 spots on leaf are seen Hinosan 50 E.C. @ 1ml per litre of water or Blitox @ 4gm per litre of water is to be applied and spraying is to be continued at an interval of 10-15 days till the diseases is controlled. For control of **sheath blight** diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.
- To control rat in **wheat** field use Celphos / Quickphos tablet (1 or 2 per hole) or prepare poison bait using Atta / Crushed Maize 80 gm, Gur 5gm, Dry fish 5 gm and Zinc Phosphate 5 gm.
- Prepare land and start sowing of summer vegetables like **ladies finger, ridge gourd, cucumber** etc., nursery preparation of **early ahu rice** and sowing of **jute**.
- For nursery preparation of **early ahu rice**, land should be thoroughly paddled. Seed bed of 10 m length and 1.25 m breadth with 36 cm gap between two beds should be prepared. Low lying areas having sufficient soil moisture and having assured irrigation facility should be selected. In each bed 20 to 30 Kg cow dung or compost, 80 gm urea, 80 gm single super phosphate and 40 gm MOP are to be applied. Well germinated seeds are to be sown @ 650-1000 gm per bed.
- Plough land and ladder 5 -6 times to obtain a fine seed bed for sowing of **jute**. In termite and cricket infested field the soil is to be treated with Malathion 5% dust @ 30 kg per hectare. Use seeds of varieties JRC 212, 321, 7447 etc. for sowing.

Arunachal Pradesh

Sky remained partly cloudy over the state.

Isolated rain / thundershowers are likely over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- There was no significant rainfall during last week and no significant rainfall is likely over the State for the next three days. Under these conditions, apply required irrigation to **winter vegetables, potato, mustard, wheat and ginger** crops.
- Intercultural operation may be continued in **ginger and winter vegetables**.
- Monitor **mustard** crop for **aphid** infestation. The crop should be protected from aphids by spraying of

Metasystox (1ml per liter water) or neem based insecticide (2 ml / litre of water) if crosses economic threshold level.

- Continue field preparation and sowing of **fox tail millet** and **maize**.

Bihar

Light to moderate rain occurred at many places on 13th & 14th March. Rest of the days weather was mainly dry.

Mainly dry weather is likely over the State. Fall in night temperature by 2-3⁰C during next 48 hours.

Advisories

- There was no significant rainfall in the State during last week except in **Bhagalpur**, **Muzaffarpur** and **Patna** districts and mainly dry weather is likely over the State for the next three days. Under the circumstances, apply irrigation to **maize** and **wheat**. Apply irrigation depending on soil profile stored moisture in the above mentioned districts as excess rainfall received during last week.
- Prepare land and continue sowing of **summer vegetables** like **bhindi**, **bottle gourd**, **sponge gourd**, **maize** and **moong**.
- Maintain 3 – 5 cm water in the **boro rice** field.
- Monitor **wheat** crop for **blight** disease and if there is excess of *Alternaria* or *Helminthosporium* blight in leaf or plants of wheat, spray Propiconazole @ 1 liter / ha or Companion @ 2 kg / ha.
- Monitor **rabi maize** for pest and diseases and if there is considerable symptom of **leaf blight** on leaves spray Mancozeb @ 2.5 Kg / ha.

Jharkhand

Very light to light rain occurred at most places. Thunderstorms accompanied with hail storm occurred at isolated places.

Mainly dry weather is likely over the State. Fall in night temperatures by 2-3⁰C during next 48 hours.

Advisories

- As mainly dry weather is likely over the State for the next three days, apply irrigation to **maize**, **potato** and **wheat** crops.
- Monitor **wheat** for **termite** attack. Spray Chlorpyrifos @ 2.5 ml / litre of water.
- Continue harvesting the matured **pulse** crops.
- Maintain 3 – 5 cm water in the **boro rice** field.

Sikkim

Sky remained generally cloudy during the period.

Mainly dry weather is likely over the State. Fall in night temperature by 2-3⁰C during next 48 hours.

Advisories

- Apply irrigation to **wheat** and **vegetable crops** as there was no significant rainfall during last week and dry weather is likely to prevail for the next three days. Conserve moisture in **mustard** field as the crop is now at maturity stage.
- Monitor **large cardamom** for **stem borer** and undertake plant protection measures to prevent further damage. Remove Chirkey and Foorkey affected plants and destroy the affected plants completely.
- Continue land preparation and sowing of **maize** and **ginger**. Line sowing may be undertaken in **maize** to ensure plant population.
- Monitor **orange** for **fruit borer** and undertake plant protection measures to prevent **egg laying**.

West Bengal

During the said period very light to light rain occurred at isolated places on 12th, very light to light rain along with moderate rain at isolated places on 13th, very light to light rain at a few places along with moderate rain at isolated places on 14th occurred over Sub Himalyan West Bengal.

But very light rain at isolated places on 12th, light to moderate rain at a few places along with heavy rain at isolated places on 13th and light to moderate rain at a few places on 14th occurred over Gangetic West Bengal.

Mainly dry weather is likely over the State. Fall in night temperature by 2-3⁰C during next 48 hours.

Advisories

- As there was excess rain in **Birbhum, Burdwan, Midnapore, Murshidabad, Nadia, Purulia and Malda** districts of the State during last week and mainly dry weather is likely for next three days, apply light irrigation at dough stage of **wheat** and also to new crop of **sugarcane** and early sown **sesamum** and **groundnut** wherever crops are at vegetative stage in these districts depending on soil profile stored moisture. Apply irrigation to the crops in the remaining districts of the State to bring soil to field capacity.
- Apply second split dose of 25 – 30 kg N / ha at 6 weeks after transplanting of **boro rice**. Maintain 3 – 5 cm water in the field at tillering stage.
- Keep vigilance against outbreak of blast disease in **boro rice**. If disease infestation exceeds economic threshold level i.e. at least one leaf or 25 % of the leaves of the plant, spray water soluble Ediphenphos 50% @ 1 ml or Triamiphos 48% @ 1ml or Carbendazim 50% @ 1 gm or Tricycogol 75% @ 0.5 ml per litre of water. 750 litre of water is required for spraying 1 hectare of land.
- Prepare land and complete sowing of **sesamum, groundnut** and **green gram**.
- Select improved variety from Rama, Tilottoma, HT-1 etc. for sowing of **sesamum**. Seed rate is 6 - 7.5 kg per ha. Seeds may be sown at row spacing of 30 cm distance. No fertilizer is required if it is sown after harvesting of potato crop. Otherwise apply FYM @ 12 – 15 cart per ha and 25 kg N, P₂O₅ and K₂O each per ha.
- Select improved variety from JL24, J-11, A.K-12-24 etc. for sowing of **groundnut**. Seed rate is 110 - 125 kg per ha. Seeds may be mixed by 7.5 packets of 200 gm each of Rhizobium culture followed by sundrying.
- Select improved variety from K-851, Panna, Sonali, Pusha, Baishalkhi etc. for sowing of **green gram**. Seed rate is 25 - 30 kg per ha. Seeds may be mixed with 4 – 5 packets of 200 gm each of Rhizobium culture followed by sundrying.
- Seeds may be treated with 1 gm carbendazime per kg of seeds before sowing.

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

Gujarat

Rainfall occurred at isolated places over North Gujarat region & Kutch on 13th March.

Mainly dry weather is likely over the State. Rise in both day & night temperatures by 2-3⁰C likely over the State.

Advisories

- As there was no significant rain in the State during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to **new sugarcane crop, castor, wheat, summer groundnut** and **summer bajra** to bring the soil moisture to field capacity.
- Apply 75 kg N / ha as top dressing at 45 days after planting of new **sugarcane** crop.
- Prepare land and continue transplanting of **rice** seedling. Transplant 2 – 3 plants / hill. Maintain 2 – 3 cm water in rice field 2 – 3 days after transplanting.
- Maintain 3 – 5 cm water in the **rice** field wherever crops are at tillering stage.
- Prepare field for sowing of **summer bajra** by 2 or 3 deep ploughings. Select varieties from GHB-526, 558. Apply 60 kg N, 60 kg P₂O₅ / ha at the time of sowing as basal dose.

Chhattisgarh

Rainfall occurred at one or two places in Raipur & Bilaspur divisions.

Mainly dry weather is likely over the state. Rise in both day and night temperatures from tomorrow onwards.

Advisories

- As there was excess rain in **Bilaspur, Kowardna, Korba, Koriya, Raigarh** and **Surguja** districts of the State during last week and mainly dry weather is likely for next three days, apply light irrigation to **sugarcane** (**new**

crop) and vegetables and also to early sown sunflower, summer groundnut, sesamum and green gram wherever crops are at vegetative stage depending on soil profile stored moisture in these districts. Apply irrigation in the remaining districts of the State to the crops to bring soil to field capacity.

- Apply 75 kg N / ha as top dressing at 45 days after planting of sugarcane.
- Apply second split dose of 25 – 30 kg N / ha at 6 weeks after transplanting of summer rice. Maintain 3 – 5 cm water in the field at tillering stage.
- Continue preparation of land and sowing of sunflower, summer sesamum, summer groundnut, summer vegetables like ladies finger, pumpkin, *barbati* etc. and green gram.
- Select varieties from Kopergaon and K-851 for sowing of green gram.

Maharashtra

Rain occurred at a few places in East Vidarbha. Rain also occurred at isolated places in West Vidarbha & Matrathwada on 12th March. Mainly dry weather prevailed over rest of the State.

Mainly dry weather likely over the State. Rise in both day & night temperatures over Vidarbha from tomorrow onwards.

Advisories

- As there was no rain during last few weeks in the State and mainly dry weather will prevail over the state for next three days, apply irrigation to sugarcane (Pre-seasonal), summer groundnut, summer sunflower, summer bajra and summer maize.
- Apply 140 kg Nitrogen / ha along with 85 kg each of P₂O₅ and K₂O at the time of earthing up in sugarcane (Pre-seasonal).
- Second dose of 125 kg Gypsum / ha may be applied after 30 days after sowing of summer groundnut. Undertake intercultural operation wherever crops are at vegetative or flowering stage (within 6 weeks of sowing) to keep the field weed free.
- Prepare land and continue transplanting of rice seedlings in Vidarbha. Transplant 3 – 4 seedlings / hill at the time of transplanting. Maintain 2 – 3 cm water in the field after 3 – 4 days of transplanting. Apply of 20 kg Blue green Algae / ha may be done in the crop field after 10 days from transplanting. Maintain 3 – 5 cm water in the field at tillering stage.
- Apply 30 kg Nitrogen / ha after 25 - 30 days from sowing of summer sunflower.
- Apply 45 kg Nitrogen / ha after 25 - 30 days from sowing of summer bajra.
- Mild incidence of Rust in Kolhapur division in wheat, Hairy cater pillar in Kolhapur division in sunflower, sap sucking insects in Latur in summer groundnut and stem borer in Raigad district in rice is reported.
- Monitor summer groundnut for sap sucking insects and if exceeds economic threshold level, spray Chlorpyrifos or Rogor @ 15 ml in 10 liters of water. Use 500 liters of above solution for spraying one hectare of land.
- Monitor rice crop for stem borer and if exceeds ETL, use 10G Phorate @ 10 kg or 5G Quinolphos @ 15 kg powder / ha or spray Fenitrothion 50% WSC@ 800 ml / ha in 500 liters of water.

Madhya Pradesh

Rainfall occurred at a few places in South east M.P. on 13th and 14th and North West M.P. on 14th, at isolated places in East M.P. on 12th, West and North East M.P. on 13th, North East and South West M.P. on 14th March. Mainly dry weather prevailed in West M.P. on 12th March.

Mainly dry weather likely over the State. Rise in both day & night temperatures from tomorrow onwards.

Advisories

- Drain out excess water immediately from the fields of irrigated wheat due to hail storm and rain during last week. Arrange for harvesting the matured crop to prevent further damage.
- Continue harvesting of matured crops of wheat, mustard, linseed, gram and masoor.

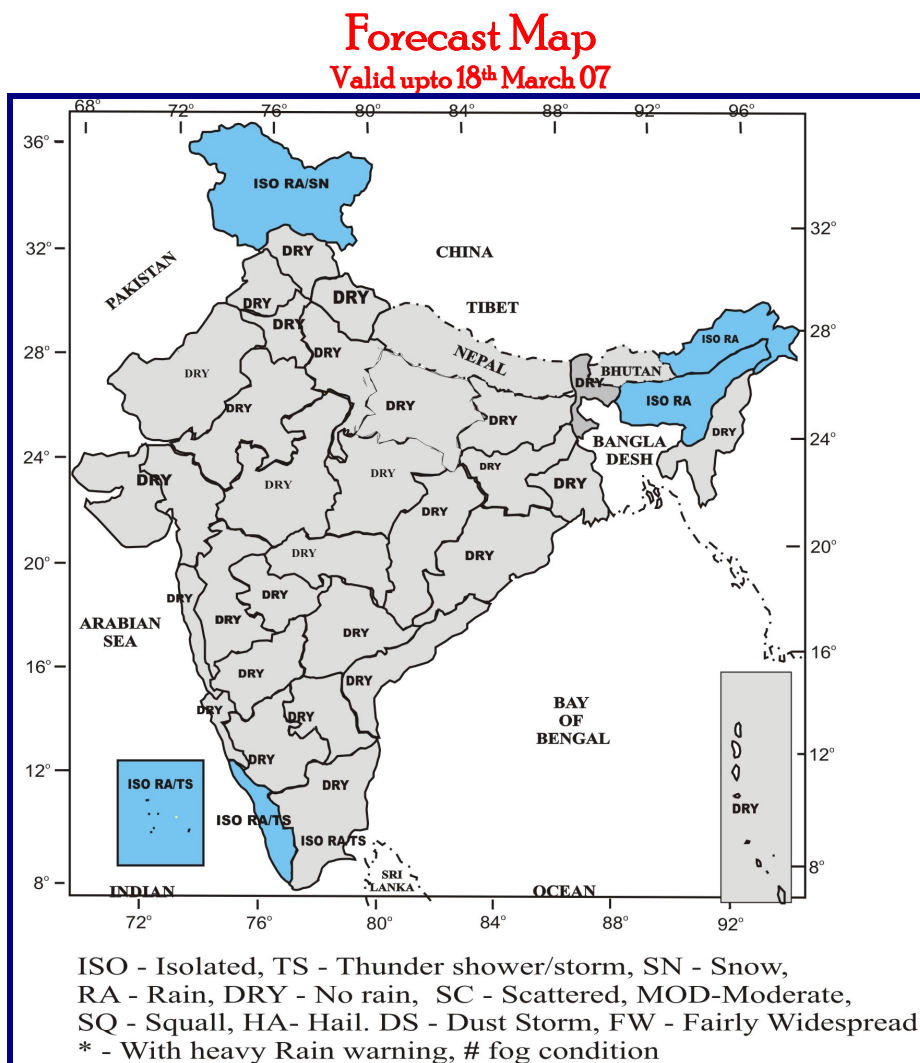
Orissa

Rain fall occurred at isolated places over the State during the above period.

Mainly dry weather is likely over the State. Fall in night temperature by 2-3⁰C during next 48 hours.

Advisories

- As there was excess rain **Jajpur** and **Mayurbhanj** districts during last week, postpone irrigation to **vegetables, sugarcane** and **pulses**. Apply light irrigation depending on the soil profile stored moisture in **Balasore, Gajapati, Ganjam, Keonjhar, Puri** and **Rayagada** districts. As there was no significant rainfall during last week in the remaining districts and mainly dry weather is likely over the State for next three days, apply required amount of irrigation.
- Spray Tricyclazole @ 0.6 gm / litre of water to manage **blast** disease and to control **stem borer** spray Profenophos or Triazophos @ 2 ml per litre of water in **Dalua rice**.
- Prepare land with basal application of 8 kg N, 16 kg P₂O₅ and 16 kg K₂O / acre and continue sowing of **summer groundnut**. Select varieties from Smruti and AK 12-24.
- Continue sowing of **summer moong** with basal application of 8 kg N, 16 kg P₂O₅ and 8 kg K₂O / acre.
- If **powdery mildew** in **cucurbit vegetables** crosses ETL, spray Mancozeb @ 4 gm / litre of water.
- Monitor **brinjal** and **tomato** for **wilt** and if it crosses ETL, spray 1.5 g Streptocycline and 20 g copper oxychloride in 10 litres of water.
- Monitor **thrips** in **chillies** and if it crosses ETL, spray 300 ml Ethion or 400 ml Dimethoate per acre.



Salient weather features for the week ending 14/03/07

METEOROLOGICAL ANALYSIS

- A western disturbance as an upper air system lay over north Pakistan and neighbourhood on 9th, over Jammu & Kashmir and neighbourhood on 10th and moved away eastwards on 11th. An induced cyclonic circulation at lower levels lay over Punjab and neighbourhood on 10th and 11th and moved away eastwards thereafter.
- On a quick succession, another western disturbance lay over north Pakistan and neighbourhood on 11th, over north Pakistan and adjoining Jammu & Kashmir on 12th, over Jammu & Kashmir and neighbourhood on 13th and moved away eastwards on 14th. An induced cyclonic circulation at lower levels lay over south Pakistan and adjoining Rajasthan on 11th, over West Rajasthan and neighbourhood on 12th, over East Rajasthan and neighbourhood on 13th and over East Uttar Pradesh and adjoining East Madhya Pradesh on 14th.
- A trough in the westerlies at 500 hPa level ran roughly along 60° E upto the north of 20° N on 8th. It moved slowly eastwards and ran roughly along 75° E to the north of 20° N on 14th. It moved further eastwards thereafter.

MAXIMUM TEMPERATURES

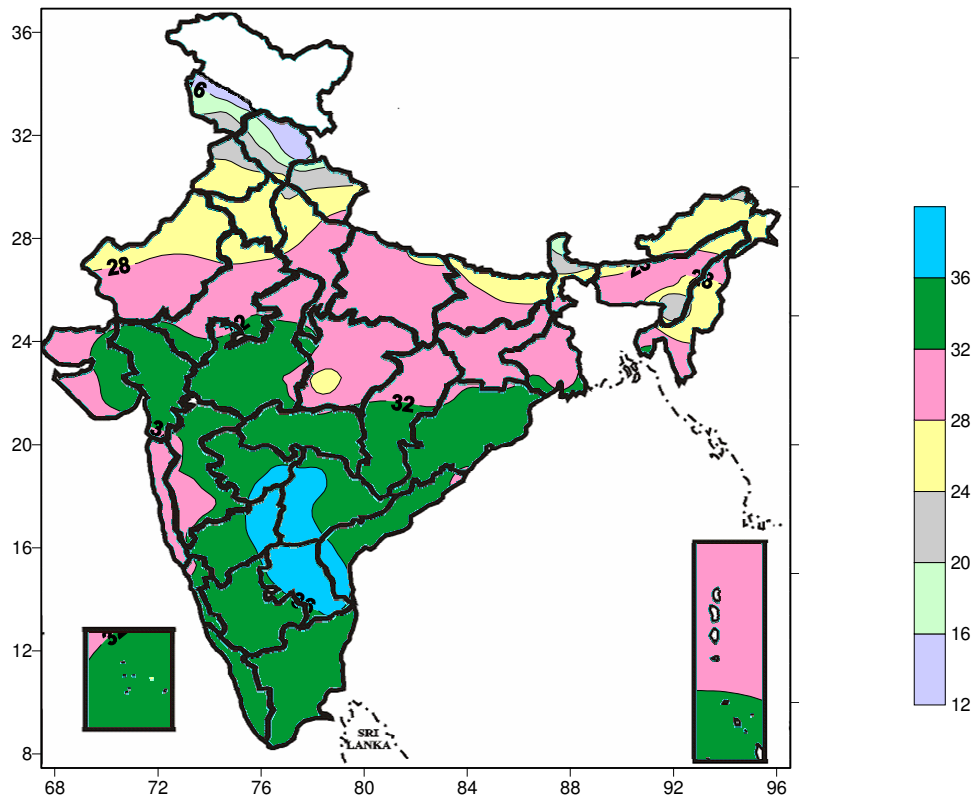
- The maximum temperatures were normal over northwest India in the beginning of the week and became below normal by 2-5 °C during 10th & 11th and by 5-10°C thereafter. They were below normal by 4-8 °C over Rajasthan and Gujarat during 11th to 14th.
- Over east India, they were below normal by 2-5 °C during the week except on 10th & 11th when they were normal.
- They were normal over central India on many days and over peninsular India throughout the week.
- They were normal during first half and above normal by 2-4 °C during second half of the week over northeast India.

OUTLOOK FOR THE WEEK ENDING ON 21ST MARCH, 2007.

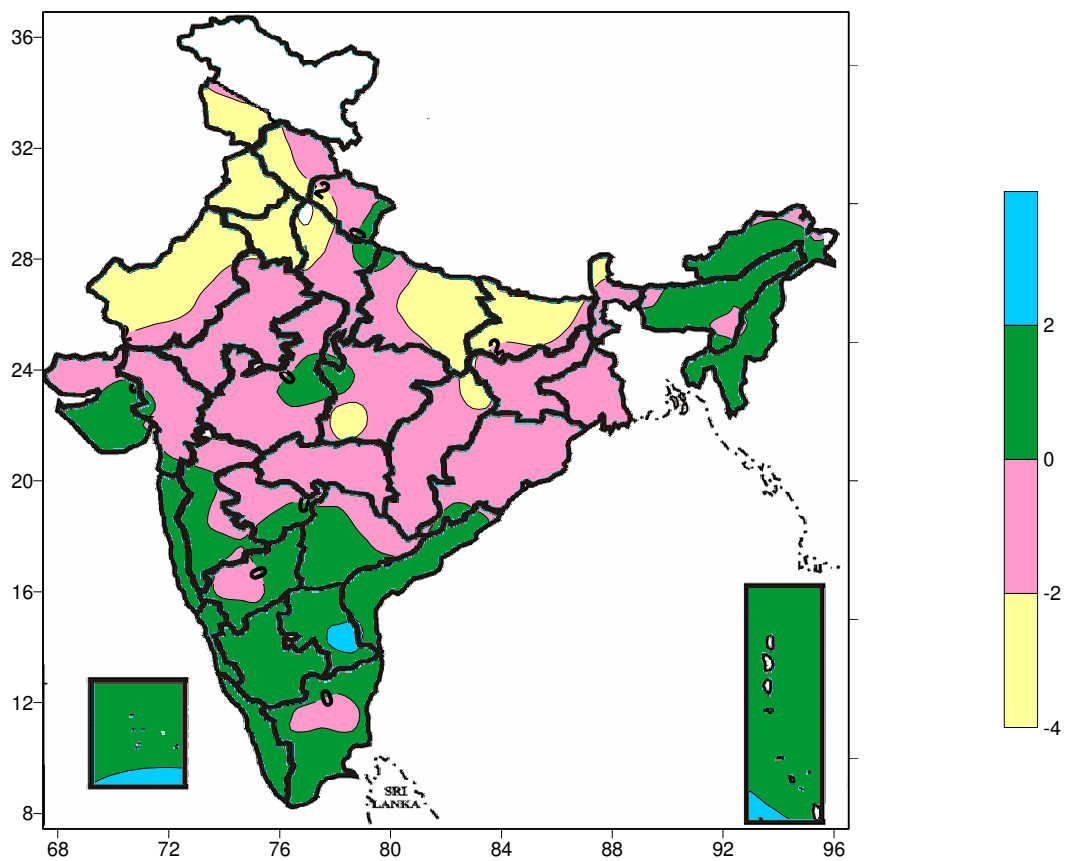
- Scattered to fairly widespread precipitation likely over Western Himalayan region from 17th night onwards for next 3-4 days. Isolated rain/thundershowers also likely over the adjoining plains of Punjab and north Haryana from 18th onwards.

Contour maps for the week ending 14th March, 2007

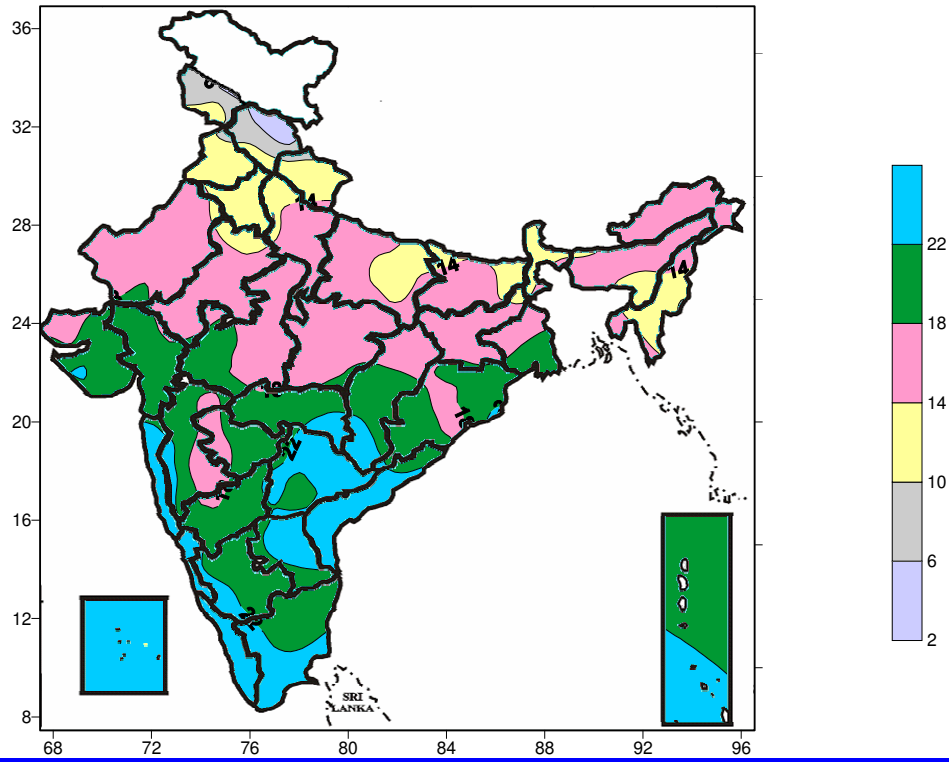
Actual mean maximum Temperature ($^{\circ}\text{C}$) in India for the week ending 14.03.07



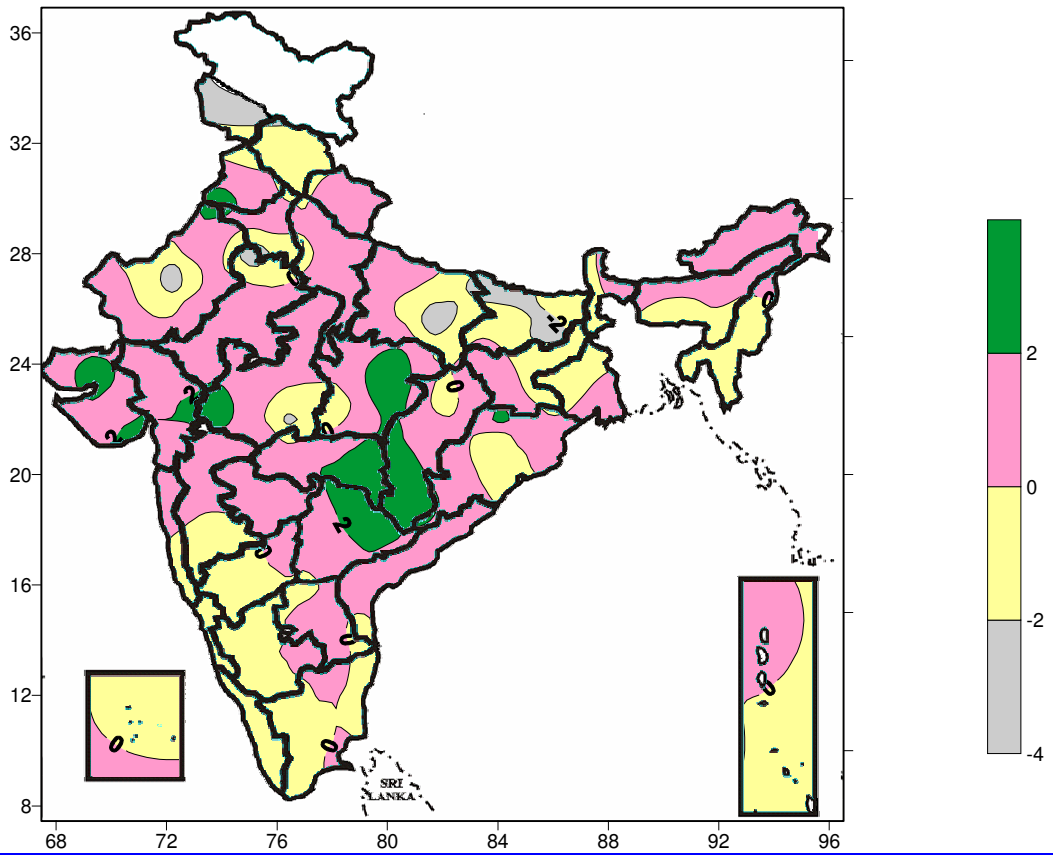
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 14.03.07



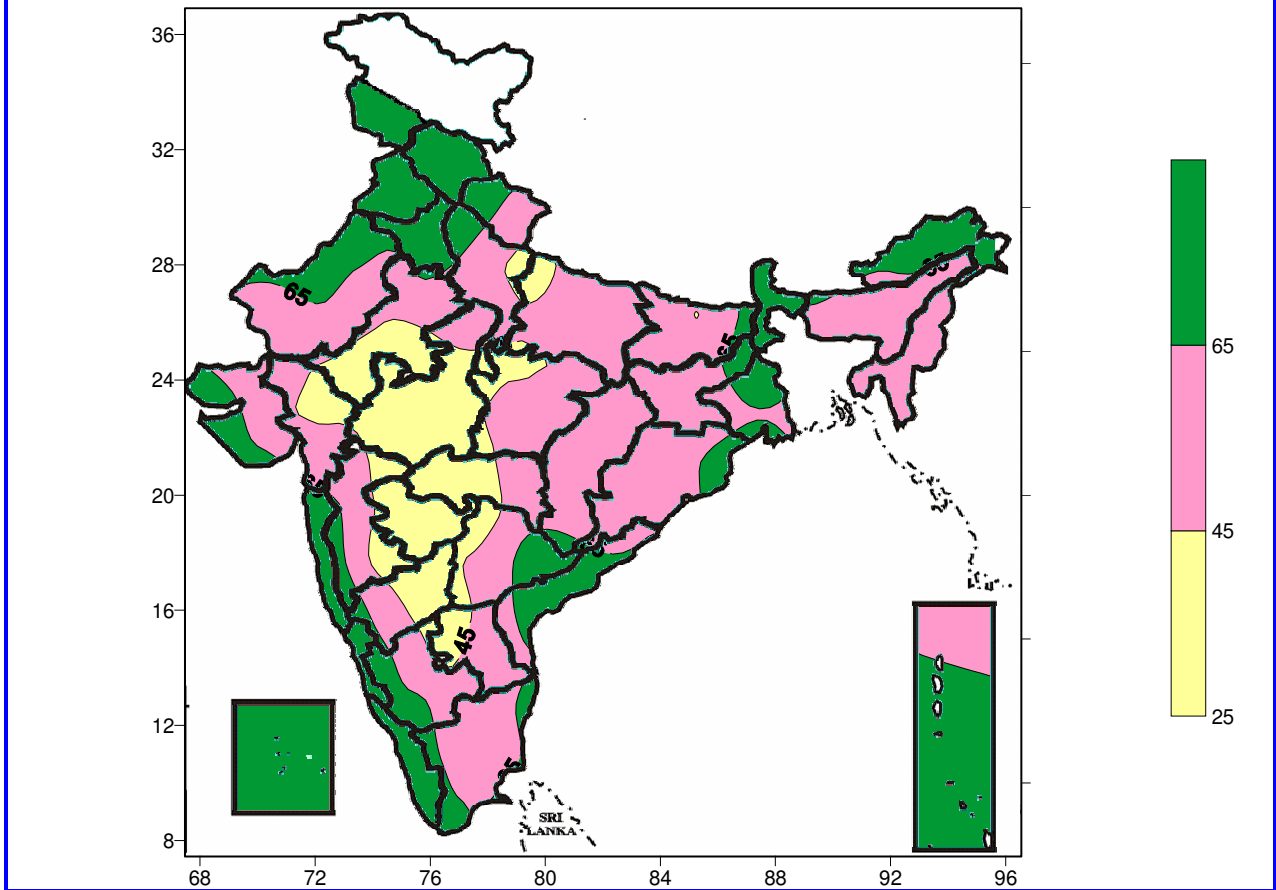
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 14.03.07



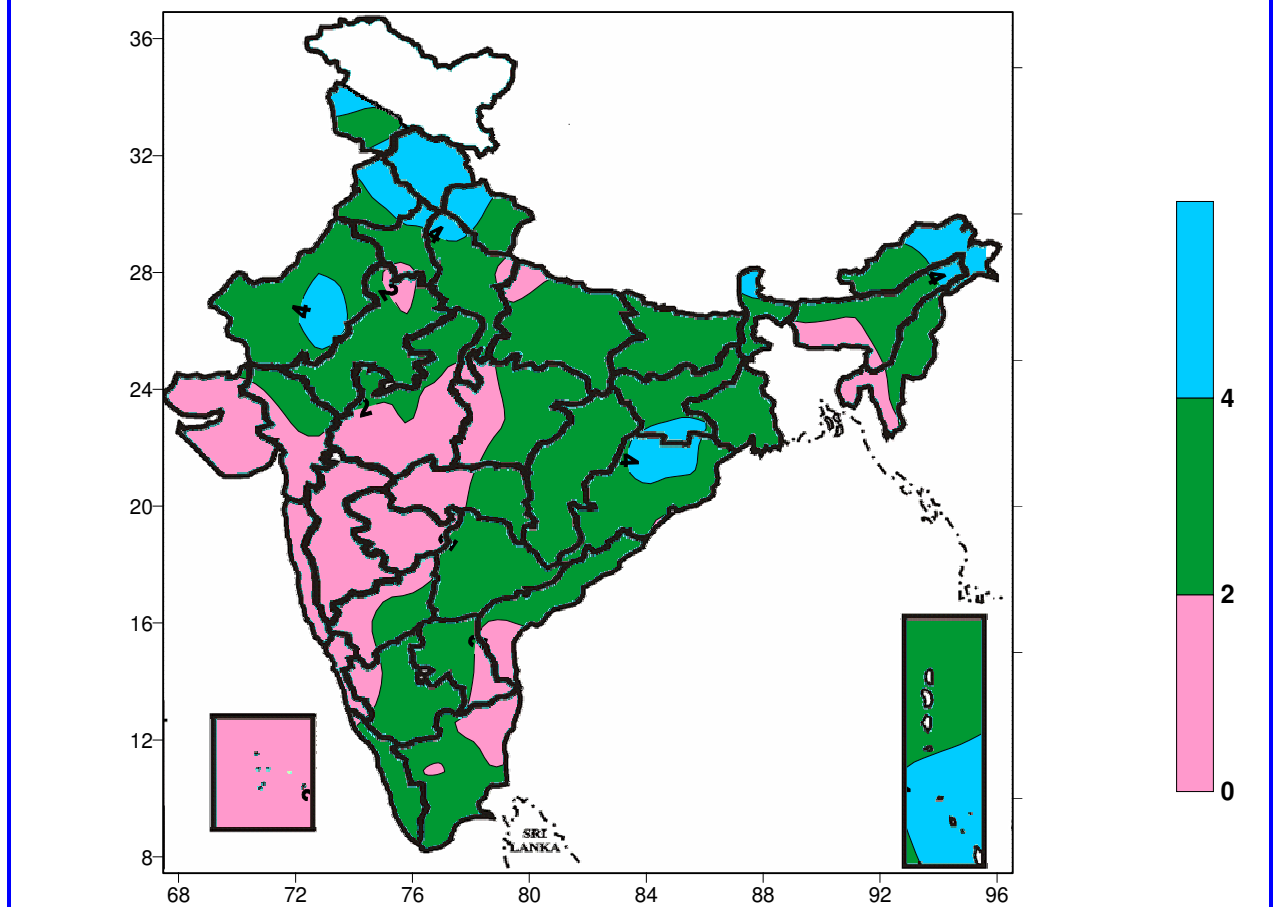
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 14.03.07



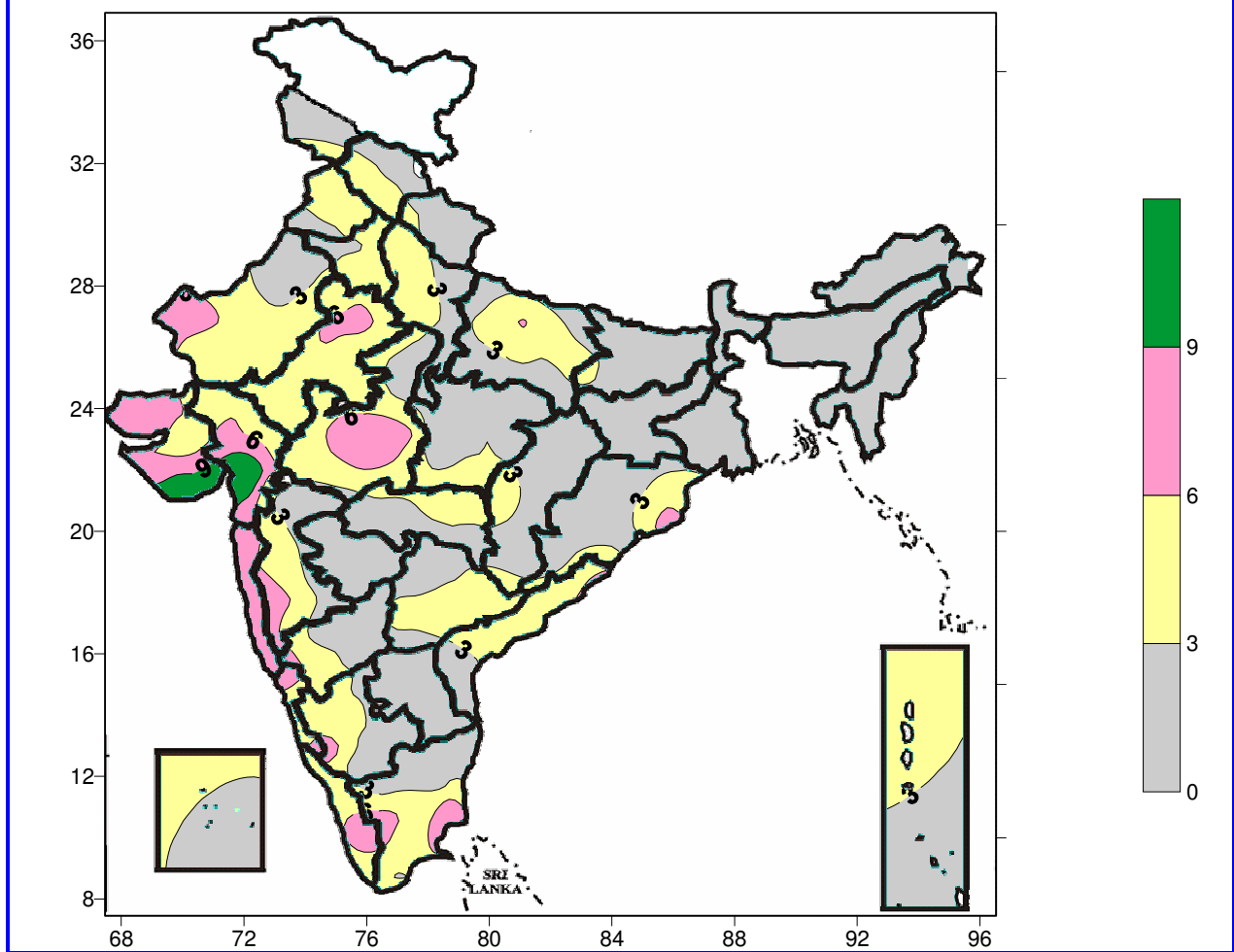
Relative humidity (%) over India for the week ending 14.03.07



Cloud amount (Okta) over India for the week ending 14.03.07



Wind speed (knots) over India for the week ending 14.03.07



Desert Locust Forecasting



Rainfall (mm)							
Station Name	08.03.07	09.03.07	10.03.07	11.03.07	12.03.07	13.03.07	14.03.07
Amritsar	-	-	0.2	-	4.7	2.7	-
Barmer	-	-	-	-	-	-	-
Sriganganagar	-	-	16.0	-	7.8	27.2	-
Jaisalmer	-	-	7.0	-	11.9	14.8	-
Kota	-	-	-	0.4	11.0	3.9	-
Deesa	-	-	-	-	3.9	0.7	-
Churu	-	-	-	-	-	1.9	-

Temperature (degree Celcius)							
Station Name	08.03.07	09.03.07	10.03.07	11.03.07	12.03.07	13.03.07	14.03.07
Amritsar	-	17.5	17.5	16.5	15.5	14.5	14.5
Barmer	-	26.5	25.0	25.0	23.0	23.0	26.0
Sriganganagar	-	22.5	-	20.5	17.5	17.5	17.0
Jaisalmer	-	25.5	23.5	22.5	20.0	18.5	19.5
Kota	-	-	26.0	24.5	26.5	26.0	24.0
Deesa	24.0	-	26.0	-	27.0	26.0	24.0
Churu	-	-	-	-	-	-	-

There is no chance of locust infestation in Rajasthan and the adjoining areas during this week.

CROP – STATE – STAGE

Delhi

Barley	Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot, and turnip)	Early sown vegetable crops	Wheat	Mustard
Flowering	Sowing/ Transplanting	Vegetative/ flowering/ fruiting/ harvesting	Ear initiation/Flowering/ Milk	Seed formation/ Maturity
Gram				
Pod formation				

Haryana

Horticultural crop	Sugarcane	Gram /Lentil	Rabi oilseeds	Wheat
Vegetative	Vegetative	Pod formation	Flowering/Pod formation	Tillering
Toria	Sunflower			
Harvesting	Sowing			

Himachal Pradesh

Wheat	Gram	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley
Tillering/Late jointing/Pre-flowering	Flowering (in late sown crops)/ Pod formation	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Tillering/Late jointing/Pre-flowering
Onion	Rape seeds and Mustard	Fruit plants		
Bulb formation	Pod formation/Maturity	Prune		

Jammu & Kashmir

Vegetable crops	Brown Sarson	Wheat / Barley (in Kashmir division)	Pea/Lentil/ Mustard	Wheat / Barley (in Jammu)
Fruiting/ Harvesting (in Jammu Division) Vegetative- in Kashmir Division	Flowering – in Kashmir Division	Tillering/Late jointing	Maturity	Grain formation/development
Fruit crops				
Plantation				

Punjab

Sugarcane	Rabi oilseeds	Gram/Lentil	Horticultural crop	Wheat
Sowing	Pod formation	Pod formation	Vegetative	Tillering
Toria	Summer Sunflower			
Harvesting	Early vegetative			

Rajasthan

Mustard	Wheat	Cumin	Gram	Barley
Maturity	Grain development	Seed Maturity	Pod Maturity	Grain Maturity

Uttar Pradesh

Wheat / Barley	(Pulses and Maize /Summer pulses)	Sugarcane	Summer Sugarcane	Winter Vegetables
Grain formation	Harvesting/Sowing (Moong,Urad)	Sowing	Field preparation	Flowering/harvesting

Rabi Oilseeds(Rai and Mustard)	Early sown Summer crop	Summer Sunflower	Early Summer Vegetables	Summer Vegetables
Harvesting	Seedling /Early vegetative	Sowing	Seedling	Sowing
	Mango			
	Flowering / Fruit setting			

Uttarakhand

New crop Potato	Mango/Litchi/ Apple	Wheat	Sugarcane	Potato
Germination/Vegetative growth	Flowering	Flowering/Milky	Sowing	Tuber Maturity/Harvesting

Assam

Summer vegetables	Sugarcane	Wheat	Boro Rice	Early Ahu rice
Sowing	Harvesting	Dough/Maturity	Tillering/ panicle initiation / flowering/Milk	Nursery preparation
			Jute	
			Land prepration/Sowing	

Arunachal Pradesh

Mustard	Ginger	Potato	Wheat	Summer vegetables
Pod formation/Maturity	Vegetative	Harvesting	Grain formation	Sowing
Foxtail millet	Maize	Direct Seeded Ahu Rice		
Land preparation / sowing	Land preparation / sowing	Land preparation / sowing		

Bihar

Summer Vegetables	Boro Summer Rice	Wheat	Potato	Rabi Maize
Sowing	Early vegetative/tillering	Grain formation	Harvesting	Cob formation
Summer Maize			Rabi Oil seeds (Sarson, Linseed)	Rabi Pulses (Lentil, Gram, Pea)
Sowing			Maturity/Harvesting	Maturity/Harvesting

Jharkhand

Boro rice	Rabi Maize	Wheat	Potato
Early vegetative/tillering	Cob formation	Grain formation/milking	Tuber Maturity
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)	Summer vegetables	Rabi pulses and oilseeds (Gram, masoor, lentil, linseed, oat, mustard and kusum)	
Harvesting	Sowing	Maturity/Harvesting	

Sikkim

Maize /Ginger	Mustard	Summer vegetables	Wheat	Large Cardomom
Sowing	Siliqua Maturity	Sowing	Grain formation/development	Vegetative
Orange				
Early flowering				

West Bengal

Boro rice	Sugarcane	Sesamum	Groundnut	Green gram
Tillering/Panicle initiation	Harvesting	Sowing	Sowing	Sowing
New Crop Sugarcane	Early sown Sugarcane	Early sown Sesamum	Early sown Groundnut	Wheat
Planting	Sprouting/Early vegetative/Vegetative	Germination/Early vegetative	Germination/Early vegetative	Dough/ Maturity

Chattisgarh

Gram, Mustard	Vegetables (Tomato, chilli, brinjal)	Sugarcane	Early sown Sugarcane	Wheat
Harvesting	Flowering/ Fruiting / harvesting	Harvesting	Sprouting/Early vegetative/vegetative	Maturity/Harvesting
Sunflower, Groundnut	Early Sown Sunflower	Summer Vegetables	Summer rice	Linseed
Field preparation/Sowing	Germination / early vegetative / vegetative	Sowing	Tillering	Harvesting
	Summer sesamum	Early sown Summer sesamum		
	Field preparation/sowing	Germination / early vegetative / vegetative		

Green Gram	Early sown Green Gram			
Field preparation/Sowing	Germination/Early vegetative			

Gujarat

Kharif Cotton	Wheat	Summer Rice	Castor	Summer Bajra
Picking	Dough/maturity/ Harvesting	Transplanting	Spike formation/Maturity/ Harvesting	Land preparation/Sowing
Mustard	Summer Groundnut	Early sown Bajra	Sugarcane	New Sugarcane
Harvesting	Germination/Vegetative	Germination / early vegetative / vegetative	Harvesting	sprouting / early vegetative / vegetative
	Early transplanted Rice			
	Early vegetative/Tillering			

Maharashtra

	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Wheat (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Rabi Maize (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)
	Harvesting	Head maturity/Harvesting	Maturity/Harvesting	Cob maturity/Harvesting
Rabi Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Summer Rice (Konkan, Vidarbha & Kolhapur dist.)
Seed maturity / harvesting	Early vegetative/active growth	Bulb maturity/Harvesting	Early vegetative/Vegetative (Vegetative in Thane, Raigad & Ratnagiri & flowering to Pegging in Sindhudurga district)	Seedling /Transplanting /tillering – in Vidarbha Tillering in Thane, Raigad, & Ratnagiri dist. /Flag leaf initiation – in Sindhudurg dist.
Summer Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Bajra (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Maize (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)	
Seedling/Early vegetative	Seedling/Early vegetative	Seedling/Early vegetative	Sprouting/Early vegetative	

Madhya Pradesh

Irrigated Wheat	Mustard	Gram	Masoor	Linseed
Grain maturity	Harvesting	Harvesting	Harvesting	Harvesting
Wheat				
Harvesting				

Orissa

Vegetables	Dalua Rice	Mustard	Pulses	Summer pulses
Flowering / Fruiting / Harvesting	Tillering	Pod maturity/Harvesting	Pod formation Maturity	Germination/Early vegetative
Early sown Sugarcane	Sugarcane	Groundnut	Rabi Groundnut	Early transplanted Rice
Harvesting	Early vegetative	Pod maturity/Harvesting	Land preparation/Sowing	Panicle initiation

Andhra Pradesh

Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice
Pod maturity	Harvesting	Harvesting	Pod harvesting	Flowering

Karnataka

Sugarcane (Ratoon crop)	Rabi Jowar and Wheat	Sunflower	Summer groundnut	Summer rice
Vegetative	Harvesting	Vegetative/budding	Vegetative	Transplanting (some places) / Tillering

Kerala

Rubber		Puncha rice		
Tapping		Tillering		

Tamil Nadu

Rice (Navarai)	Early planted Sugarcane	Cotton	Rice fallow Pulses (Blach gram and Green gram)	Oilseeds (Groundnut)
Panicle initiation/Flowering	Vegetative	Vegetative	Flowering	Vegetative
Sunflower	Summer gingelly/Maize			
Vegetative	Sowing			
