



Summary of Agromet Advisory Services for different States of the country
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(For the period 1st March to 5th 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

Moderate rainfall has occurred almost in all districts of the State in the past two days with reports of some lodging / water logging in some parts of the State.

Weather will be mainly dry over the State during next 3 days.

Advisories

- Undertake planting of early maturing varieties of **sugarcane** i.e CO J-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.
- Attack of **late blight** is reported in **potato**. In order to check further spread of the disease, spray Dithane M-45 @ 500 g/acre.
- Monitor **rabi oilseeds** for **aphids** attack and if the pests population crosses ETL, spray Dimecron @ 250 ml / ha or Methyl Demiton @ 850 ml / ha.
- Spray one litre Endosulfan 35 EC in 650 litres of water 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.

Haryana

Moderate to rather heavy rainfall has occurred almost in all districts of the State in the past two days with reports of some lodging / water logging in some parts of the State.

Rain/thundershowers are likely at a few places over the State till today evening and mainly dry weather thereafter. Isolated hail/squall is likely over the State during next 24 hours.

Hail Warning: Isolated hailstorm / squall is likely over the State.

Advisories

- Undertake planting of early maturing varieties of **sugarcane** i.e CO J-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 **late blight** is reported in **potato**. In order to check further spread of the disease, spray Dithane M-45 @ 500 g/acre.
- Attack of **stem borer** and **termite** is reported in **wheat**. Spray Endosulfan 35 EC @ 1.5 ml/litre of water to control stem borer.
- Apply Aldrin 30 EC @ 5 litres/ha in irrigation water to control termite in **wheat**.

Rajasthan

Rain / thundershowers occurred with hail storm at isolated places in north Rajasthan and weather remained mainly dry in south Rajasthan.

Isolated rain / thundershowers over East Rajasthan during next 24 hours. Mainly dry weather thereafter. Mainly dry weather likely over the rest region during next 3 days.

Advisories

- Apply irrigation to **wheat, gram, cumin** and **barley** as rain / thundershower is likely to occur at isolated places only over East Rajasthan during next 24 hours and dry weather is likely to prevail thereafter. Conserve moisture in **mustard** field as the crop is now at maturity stage.
- Monitor **gram** for **pod borer** and if the pest population crosses ETL, spray Monocrotophos or Endosulphan @ 1 ml/litre of water.
- Monitor **wheat** for **termite** attack and apply Endosulfan 35EC @ 2.285 litres / ha or Chloropyriphos 20 EC @ 4 litres / ha to control termite.
- Cloudy weather conditions are favourable for **aphids** attack in **cumin** and if the pest population crosses ETL, undertake plant protection measures.

Uttar Pradesh

Weather was mainly dry in all divisions of State.

Rain / thundershowers likely at a few places over West Uttar Pradesh till 1st march evening and mainly dry weather thereafter & rain / thundershower likely at many places over East Uttar Pradesh during next 24 hours and decrease thereafter.

Warning: Isolated rain / squall is likely over the State.

Advisories

- Rain / thundershowers likely at a few places over West Uttar Pradesh upto today evening and mainly dry weather thereafter in West U.P. Under the circumstances, apply required irrigation to **rabi oilseed crops, pulses** and **winter vegetable**.
- As rain / thundershower likely at many places over East Uttar Pradesh during next 24 hours, postpone irrigation to **rabi oilseed crops, pulses** and **winter vegetable**.
- To control the **violet spot disease** in **onion** spray the solution of Mancozeb 0.2% @ 2gm / liter on a non rainy day.
- To control fruit borer insect in **pea** and **gram**, spray the solution of Endosulphan, 35 EC, @ 2 lit / hectare in necessary amount of water on a non rainy day.
- Monitor **mustard** crop for **sawfly** and **mahu** and if the pests population crosses ETL, spray Endosulphan @ 1.25 litres / ha on a non-rainy day to control the pests.
- Monitor **mango** for **hopper** and if the pests population crosses ETL, spray the solution of Carathane or Calixin @ 1ml/litre in water on a non-rainy day.
- Harvesting of **winter vegetables** and **sugarcane** may be continued.
- Continue the sowing of **jayad urd, moong, maize** and **sunflower**.

Himachal Pradesh

The precipitation occurred at many places in the State.

Rain / snow is likely at many places over the State during next 24 hours and isolated thereafter. Isolated hail / squall is likely over the State during next 24 hours.

Advisories

- As there was excess rain during last week in most of the districts of the State and rain is likely at many places over the State during next 24 hours, postpone irrigation to the crops.
- Continue land preparation and nursery sowing and transplanting of **cauliflower** and **cabbage** after 24 hours in low and mid hills.
- Apply second split dose of N @ 25 – 30 kg / ha after 24 hours at tillering stage of **wheat**.
- 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 after 24 hours. Spraying can be repeated at 15 days interval, if the pest still persists.

- Undertake nursery preparation of **onion** after 24 hours with N – 53 variety. Prepare land and also continue transplanting in main field.
- 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

Light to moderate rain / snow occurred at many places on 28th February and very light rain occurred at isolated places on 27th February while mainly dry weather prevailed during rest of the week. Sky remained mainly clear to overcast during the week.

Rain / snow is likely at many places over the State during next 24 hours and isolated thereafter. Isolated hail / squall is likely over the State during next 24 hours.

Advisories

- As rain / snow is likely at many places over the State during next 24 hours, postpone irrigation to **mango**, **potato** and **wheat** crops.
- Continue harvesting of matured crops of **sugarcane** and **pea**.
- Monitor **mango** for **mealy bug** and **gall midge**. If the pest population crosses ETL, spray Monocrotophos @ 1 ml / liter of water to control mealy bug and spray Dimecron @ 0.3 ml /liter of water to control gall midge. Spray the chemicals on a non-rainy day.
- Monitor **litchi** for **mite** attack. Spray Dimethoate @ 0.05% to control mite. Spraying may be undertaken on a non-rainy day.
- Undertake planting of **potato** in hilly areas.

Jammu & Kashmir

Moderate to heavy rain / snow occurred at most places on 27th & 28th February. Light to moderate rain / snow occurred at isolated places on 26th February over J & K State.

Rain / snow are likely at a few places over the State during next 24 hours and isolated thereafter. Isolated hail / squall are likely over the State during next 24 hours.

Advisories

- 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.
- Undertake intercultural operations, application of fertilizers and pesticides in **wheat**, **vegetable crops** and **brown sarson** in Kashmir division after current spells of rain.
- Undertake transplanting of **poplar** from nursery to orchard areas. Cover the early planted saplings with **sarkanda** to prevent from cold/frost injury.
- Continue sowing of **bhindi**, **beans** and **cucurbits**

Delhi

Light rain occurred on 28th February at most places. Weather remained mainly dry on rest of the days.

Rain / thundershowers are likely at a few places over the state till today evening and mainly dry weather thereafter. Isolated hail / squall is likely over the region during next 24 hours.

Advisories

- As there was no significant rainfall during last week over the State and rain / thundershowers are likely at a few places over the state till today evening and mainly dry weather thereafter, apply irrigation to **vegetables**,

wheat, barley, gram and mustard.

- 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 on a non-rainy day.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Rain / thundershowers occurred at isolated places on 27th & 28th February. Dry weather prevailed on 26th February.

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

Advisories

- Apply irrigation to plantation crops as there was no significant rainfall during last week except in Kollam and Wayanad districts and rain / thundershower is likely to occur at isolated places during next 24 hours only over the state.
- Attack of leaf eating caterpillar, coried bug, leaf rot and stem bleeding is reported in coconut. Cut and burn the affected leaves. Release larval and pupal parasitoids to control leaf eating caterpillar biologically. Spray Sevin @ 4 gm / litre of water to control coried bug. Spray crowns and leaves with 1% Bordeaux mixture / 0.5% Copper Oxy Chloride formulation / 0.4% Mancozeb to control leaf rot. Chisel out affected tissues completely and paint the wound with Tridemorph 5% to control stem bleeding disease. Apply coal tar after 1-2 days. Root feed with Tridemorph 5% to prevent further spread.
- Attack of spindle bug is reported in arecanut. Spray Carbaryl @ 4 g / litre of water to control the pest.
- Attack of stem borer, leaf folder and gall midge in seedlings is reported in Punched rice. Spray Carbaryl 50% @ 2 kg / ha to control the pests.
- Attack of bunchy top disease is reported in banana. Apply 12.5% Phorate 10G or 10 gm Carbofuran 3G / plant in leaf axil or 25 gm Phorate or 20 gm Carbofuran / pit in soil, 165 days after planting. Eradicate bunchy top affected plants.
- Protect the plantation crops from scorching by applying lime.

Tamilnadu

Rainfall occurred at isolated places over the State on 27th February, at isolated places over South Tamilnadu and dry weather prevailed over North Tamilnadu on 26th February and mainly dry weather prevailed over Tamilnadu on 28th February.

Isolated rain/thundershower is likely over south Tamil Nadu during next 24 hours and mainly dry weather thereafter.

Advisories

- Apply irrigation to rice, millets, sunflower, pulses, cotton and groundnut as rain / thundershower is likely to occur at isolated places only over south Tamil Nadu during next 24 hours.
- Complete planting of early sugarcane. Undertake sett treatment with *Pseudomonas fluorescenc* @ 600 g / ha before planting. Monitor the early planted crop for shoot borer. Pick up the egg mass and destroy completely.
- Monitor rice for leaf eating caterpillar and stem borer and if the pest population crosses ETL, undertake plant protection measures.
- Undertake intercultural operations to keep the field weed free and application of fertilizers in maize, groundnut, cotton and sunflower.

Karnataka

Dry weather prevailed over the State on all days.

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.
- Continue harvesting of *rabi* crops like **jowar and wheat** and complete harvesting of **maize and sunflower**.

Andhra Pradesh

Dry weather prevailed over the State during the period.

Mainly dry weather is likely to prevail over the State.

Advisories

- There was no significant rainfall during last week over the State and mainly dry weather is likely to prevail over the State for the next three days. Under the circumstances, apply irrigation to *rabi* crops like **maize, rice and groundnut** to bring the soil moisture to its field capacity.
- Attack of **blast** is reported in **rice**. Spray Tricyclozole @ 0.5 gm or Edfenophos @ 1 ml / litre of water. Undertake weeding followed by application of urea in rice. Maintain 4-5 cm standing water in the field.
- Continue harvesting of matured crop of **Bengal gram**.

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

Assam

Light to moderate rain occurred at many places on 26th, at a few places on 27th and weather was dry on 28th over the state.

Rain/thundershowers are likely at a few places during next 48 hours over the State. Mainly dry weather thereafter.

Advisories

- As there was excess rain in **Barpeta, Darrang, Golghat, Jorhat, Kamrup, Lakhimpur, Morigaon, Nowgong, Sibsagar and Sonitpur** districts of the State during last week and rain / thundershowers are likely at a few places during next 48 hours over the State and mainly dry weather thereafter, apply light irrigation to vegetables and wheat (at milk and dough 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.
- Maintain 3 – 5 cm water at tillering stage in the *boro rice* field.
- Continue harvesting of **sugarcane, arhar, rapeseed and mustard, pea, lentil and potato** on bright sunny days. Red rot infested **canes** should be harvested early and field should be newly planted and rotooning should be discouraged.
- Mild incidence of **pod and apion borer in arhar, late blight in tomato and Hispa, Brown Plant Hopper and blast and sheath blight diseases in rice** is reported in a few localities.
- Monitor late blight of **tomato** and if crosses economic threshold level, spray Indofil M-45, alternatively Indofil Z-78 @ 25 gm in 10 litres of water.
- 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 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.
- Apply chemicals on a non-rainy day.
- Prepare land and start sowing of summer vegetables like **ladies finger, ridge gourd, cucumber** etc. and nursery preparation of **early ahu rice**.

- 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.

Arunachal Pradesh

Sky remained partly cloudy over the State.

Rain/thundershowers are likely at a few places during next 48 hours over the State. Mainly dry weather thereafter.

Advisories

- There was no significant rainfall in the State during last week except in Lohit and West Kameng districts and rain / thundershowers are likely at a few places during next 48 hours over the State and mainly dry weather thereafter. Under these conditions, apply required irrigation to **winter vegetables, potato, mustard, wheat** and **ginger** crops. Apply light irrigation depending on the soil profile stored soil moisture in the above mentioned districts.
- Intercultural operation may be continued on a non rainy day in **mustard, ginger** and **winter vegetables**.
- Monitor **mustard** crop for **aphid** infestation. The crop should be protected from aphids by spraying of Metasystox (1 ml per liter water) or neem based insecticide (2 ml / litre of water) if crosses economic threshold level. Spraying may be undertaken on a non-rainy day.
- Start field preparation and sowing of **fox tail millet**.

Bihar

Light to moderate rain occurred at many places on 26th February. Rest of the days weather was mainly dry.

Rain / thundershower is likely at many places over the State during next 24 hours and decrease thereafter.

Warning: Hailstorm may occur at isolated places during next 24 hours.

Advisories

- Rain / thundershower is likely at many places over the State during next 24 hours and decrease thereafter. Under the circumstances, postpone irrigation to **vegetables, maize, pulses, oilseeds** and **wheat**.
- Prepare land and continue sowing of summer vegetables like **bhindi, bottle gourd, sponge gourd, maize** and **moong**.
- Continue harvesting of matured **potato** crop.
- To protect the late sown **rai** crop from **aphid** and **Alternaria blight**, spray mixed solution of Acephate @ 800 g/ha plus Copper oxy-chloride 2.5 Kg / ha. Continue spraying after 2nd March.
- Monitor **rabi maize** for pest and diseases and if there is considerable symptom of **leaf blight** on leaves spray Mancozeb @2.5 Kg / ha. Continue spraying after 2nd March.
- In late sown **rabi** pulse crop there is possibility of **fungal attack** due to last rain. If blight attack in pulses crosses economic threshold level, spray Mancozeb mixed with Carbendazim which is available in market or saaf @ 2 kg / ha. Continue spraying after 2nd March.

Jharkhand

Weather remained mainly dry.

Rain / thundershowers likely at a few places over the State during next 24 hours and mainly dry thereafter.

Isolated hail / squall likely over the State during next 24 hours.

Advisories

- There was no significant rainfall during last week and rain / thundershowers likely at few places over the State during next 24 hours and mainly dry thereafter. Under the circumstances, apply required irrigation to **vegetables, maize** and **potato**, and **wheat** crops.
- Monitor **wheat** for **termite** attack. Spray Chlorpyrifos @ 2.5 ml / litre of water on a non-rainy day.

- If **early blight** appears in **potato** and crosses economic threshold level, it may be protected by spraying of Mancozeb (2.5 gm per liter of water) or Ridomil (1.5gm per litre) on a non-rainy day.
- **Beans, pulses** and **oilseed** crops may be affected by **aphids**. If aphid population crosses economic threshold level, the crops are to be protected by application of neem based insecticide Nimarine or Venguard @ 5ml per litre water or Metasystox @ 1 ml / litre of water in a non rainy day.
- There is mild chance of attack of **pod borer** in **arhar**. If crosses economic threshold level, spray Monocrotophos @ 1ml / litre of water on a non rainy day.
- Continue harvesting of the matured **pulse** crops in sunny weather.

Sikkim

Sky remained generally cloudy during the period. Light to moderate rain occurred at many places on 26th & 27th February over East Sikkim. No rain occurred during the rest period of the week. Rainfall was excess during the period.

Rain / thundershowers is likely at many places over the State during next 24 hours and decrease thereafter. Isolated hail / squall over the State during next 24 hours.

Advisories

- Postpone irrigation to the standing crops as rain / thundershowers likely to occur at many places over the State. Arrange for drainage facilities in case of excess rainfall.
- Monitor **large cardamom** for **stem borer** and undertake plant protection measures after current spells of rain 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. Arrange for drainage facilities in ginger to avoid rhizome rot.

West Bengal

During the said period very light to light rain occurred at most places along with moderate rain at isolated places over the state on 26th February. Very light to light rain occurred at a few places along with moderate rain at isolated places over the Sub Himalyan West Bengal on 27th February. But very light rain occurred at isolated places on 27th and moderate rain at isolated places on 28th over Gangetic West Bengal. Weather was mainly dry elsewhere.

Rain/thundershowers likely at many places over the state during next 24 hours and decrease thereafter.

Advisories

- As rain / thundershower is likely at many places over the state during next 24 hours, postpone irrigation to the crops.
- Apply 25 – 30 kg N / ha on a non-rainy day at 3 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 on a non-rainy day. 750 litre of water is required for spraying 1 hectare of land.
- Monitor brown rust disease in **wheat** and in the event of occurrence of this disease, apply carboxyn or oxycarboxyn @ 1 gm per liter of water on a non-rainy day if more than 20 % plants are affected by the disease.
- Prepare land and start 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 on a non-rainy day.
- 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

Weather remained mainly dry.

Mainly dry weather is 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** and **summer groundnut** to bring the soil moisture to field capacity.
- 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 field wherever crops are at tillering stage.
- There is mild chance of attack of semi looper in **castor**. If semi looper population exceeds economic threshold level, spray endosulphan 35 EC or quinalphos 25 EC or Monocrotophos 36% SL at the interval 15 days.
- Prepare field for sowing of **summer groundnut** by 1 or 2 ploughings. Before ploughing apply 8 to 10 MT compost or 1 MT castor cake in the field. Select varieties from J-11, GG-2, 4, 6, TG-26, ICGS-37, 44. Adopt spacing of 22.5 to 30 cm between the rows. Apply 25 kg N, 50 kg P₂O₅ / ha at the time of sowing as basal dose.
- 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 at Bilaspur division on 27th February.

Isolated rain / thundershowers are likely over north Chhattisgarh during next 24 hours. Mainly dry weather there after. Mainly dry weather likely over rest region of the state.

Advisories

- As there was no significant rain in the State during last few weeks and isolated rain / thundershowers are likely over north Chhattisgarh during next 24 hours and mainly dry weather there after and mainly dry weather likely over rest region of the state also, apply irrigation to **sugarcane (new crop)**, **vegetables** and **wheat** and also to early sown **sunflower** wherever crops are at vegetative stage.
- Continue preparation of land and sowing of **sunflower**, **summer sesamum**, summer vegetables like **ladies finger**, **pumpkin**, **barbati** etc. and planting of new crop of **sugarcane**.
- Select varieties from CO-62175, C.O.L.K.-8001 etc. for planting of **sugarcane**. Use top 1/3rd portion of the cane as a seed for best germination. Dip 2-3 eyes pieces in a solution of Agelal or Bavistine fungicide (2gm / lit of water) for 30 minutes before planting.
- Attack of **stem borer** is reported in **wheat**. Monitor **stem borer** population in **wheat** and if crosses economic threshold level, apply demecron 85 EC @ 2 ml / 3 litres of water.

Maharashtra

Mainly dry weather prevailed all over the State.

Mainly dry weather is likely over the State.

Advisories

- As there was no rain during last few weeks in the State and mainly dry weather is likely over the State for next three days, apply irrigation to **onion, sugarcane (Pre-seasonal), wheat and summer groundnut**.
- Apply 136 kg Nitrogen / ha along with 85 kg each of P₂O₅ and K₂O after 12 to 16 weeks from planting of **sugarcane (Pre-seasonal)**.
- Prepare land for sowing of **summer groundnut**. For sowing select a variety from SB-11, M-13, GT-26, TAG-24, TPG-41 & Koyna. 100 – 125 kg seeds / ha may be used for sowing.
- Prepare land and continue transplanting of **rice** seedlings. 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.
- Prepare land for sowing of **summer sunflower**. For sowing select an improved variety from EC-68414, Morden & SS-56 & hybrid variety from KBSH-11 & APSH-11. Use 10 kg seeds / ha for sowing.
- Prepare land for sowing of **summer bajra**. For sowing select a variety from Sradha & Saburi.
- Prepare land for sowing of **summer maize**. For sowing select a variety from Karvir, Gangasafed-2, Madhumaka (Sweet corn), Deccan double & African tall.
- Mild incidence of **White Woolly Aphids** in Pune, Kolhapur and Latur & **Pyrilla & White fly** in Nashik in sugarcane, **Sugary disease** in Pune division in **rabi jowar**, **Rust** in Kolhapur division in wheat and **Pod borer** in Nagpur, Kolhapur and Nashik division in gram is reported.
- Monitor infested plant by Rust in **wheat** and if exceeds economic threshold level, spray 75 % Mancozeb 1500 gm + Urea 20 kg/ha in 500 liter water.

Madhya Pradesh

Rainfall occurred at isolated places in North Madhya Pradesh on 26th February. Dry weather prevailed over the rest of the State on remaining period.

Isolated rain / thundershowers are likely over north Madhya Pradesh during next 24 hours and dry weather thereafter. Mainly dry weather is likely to prevail over the rest region.

Advisories

- Conserve moisture in **mustard and linseed** as the crops are at maturity stage. Apply irrigation to irrigated **wheat**.
- Start harvesting matured crops of **wheat, gram and masoor**.

Orissa

Weather was dry over the State during the above period.

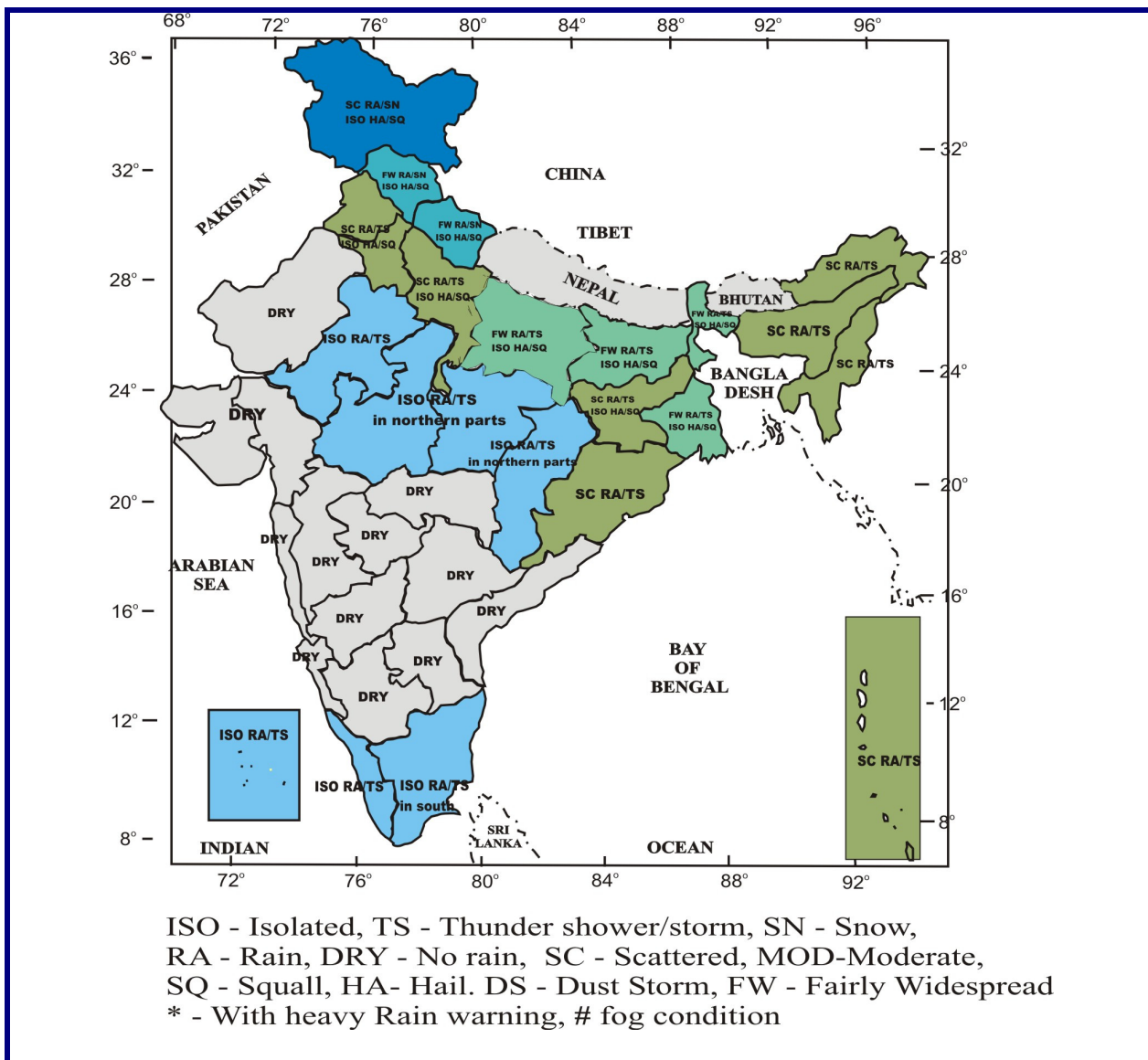
Rain / thundershowers likely to occur at isolated places over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- As weather was dry during last week and rain / thundershowers are likely to occur at isolated places over the State for next three days, apply required amount of irrigation to **mustard, vegetables, groundnut and pulses**.
- Prepare land with basal application of 50 kg N, 50 kg P₂O₅ and 50 kg K₂O / ha and complete transplanting of **Dalua rice**. Apply 16 kg Nitrogen per acre as first top dressing for early transplanted crops.
- Prepare land with basal application of 8 kg N, 16 kg P₂O₅ and 16 kg K₂O and start 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.
- Monitor the **mustard** crop for **saw fly** and spray Endosulfan @ 2 ml. / litre of water to control the pest if it crosses economic threshold level (ETL).
- If **powdery mildew** in **cucurbit vegetables** crosses ETL, spray Mancozeb @ 4gm / litre of water.

- Monitor **brinjal** and **tomato** for **wilt** and if it crosses ETL, spray 1.5 g Streptocycline and 20 g copperoxychloride in 10 litres of water.
- Monitor **thrips** in **chillies** and if it crosses ETL, spray 300 ml Ethion or 400 ml Dimethoate per acre.

Forecast Map Valid upto 4th March 07



Salient weather features for the week ending 28/02/07

METEOROLOGICAL ANALYSIS

- During the week, two western disturbances affected the Indian region from 23rd to 25th and from 27th onwards. Under the influence of 2nd western disturbance, an induced low pressure area formed over central Pakistan and adjoining West Rajasthan on 27th and persisted on 28th.
- An upper air cyclonic circulation extending upto 1.5 km a.s.l. developed over East Uttar Pradesh on 28th.
- A north-south trough extending from Sub-Himalayan West Bengal & Sikkim to north Bay of Bengal was observed from 22nd to 23rd and from northeastern States to Head Bay on 25th.
- An easterly wave also affected the extreme south peninsular region during 24th to 26th.

RAINFALL

Under the influence of the above systems:

- Light to moderate widespread rain/snow occurred over Western Himalayan region on 22nd, 27th & 28th with isolated heavy falls on 28th.
- Light to moderate rain/thundershowers occurred over Plains of northwest India and Rajasthan on 26-28th.
- Rain/thundershowers occurred at a few places over West Madhya Pradesh on 25th and isolated on 24th & 26th.
- Light rain/thundershowers also occurred over East Uttar Pradesh on 25th & 26th; over Bihar and Jharkhand on 26th and over West Bengal & Sikkim & northeastern States on 26th & 27th.
- Isolated rain/thundershowers occurred over Tamil Nadu & Kerala on 27th.
- Mainly dry weather prevailed over the remaining parts of the country during the week.

MINIMUM TEMPERATURES

- Minimum temperatures were 3-5 °C above normal over plains of northwest India, Rajasthan, Gujarat, Maharashtra, Madhya Pradesh during first half of the week and 2-3 °C above normal during 2nd half of the week.
- They were near normal over Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim from 22nd to 24th and 3-4 °C above normal on remaining days of the week. They were 3-4 °C above normal over northeastern States on many days of the week.
- They were 3-5°C below normal over south Peninsula on most days of the week.

RAINFALL DURING THE WEEK ENDING ON 28TH FEBRUARY, 2007.

Rainfall was excess/normal in 10, deficient/scanty in 14 and no rain in 12 out of 36 meteorological sub-divisions (Actual: 6.9 mm, Normal: 6.1 mm and Departure: 13%).

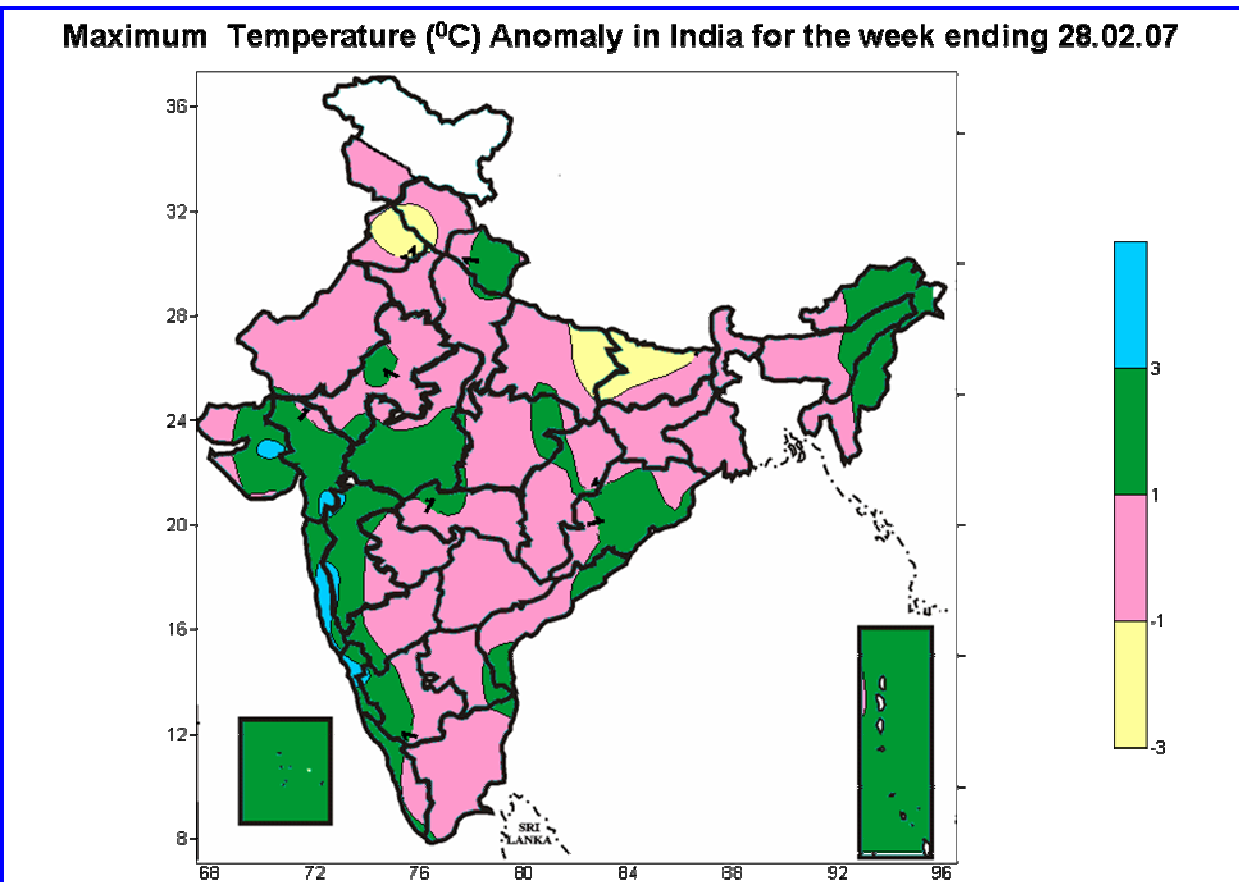
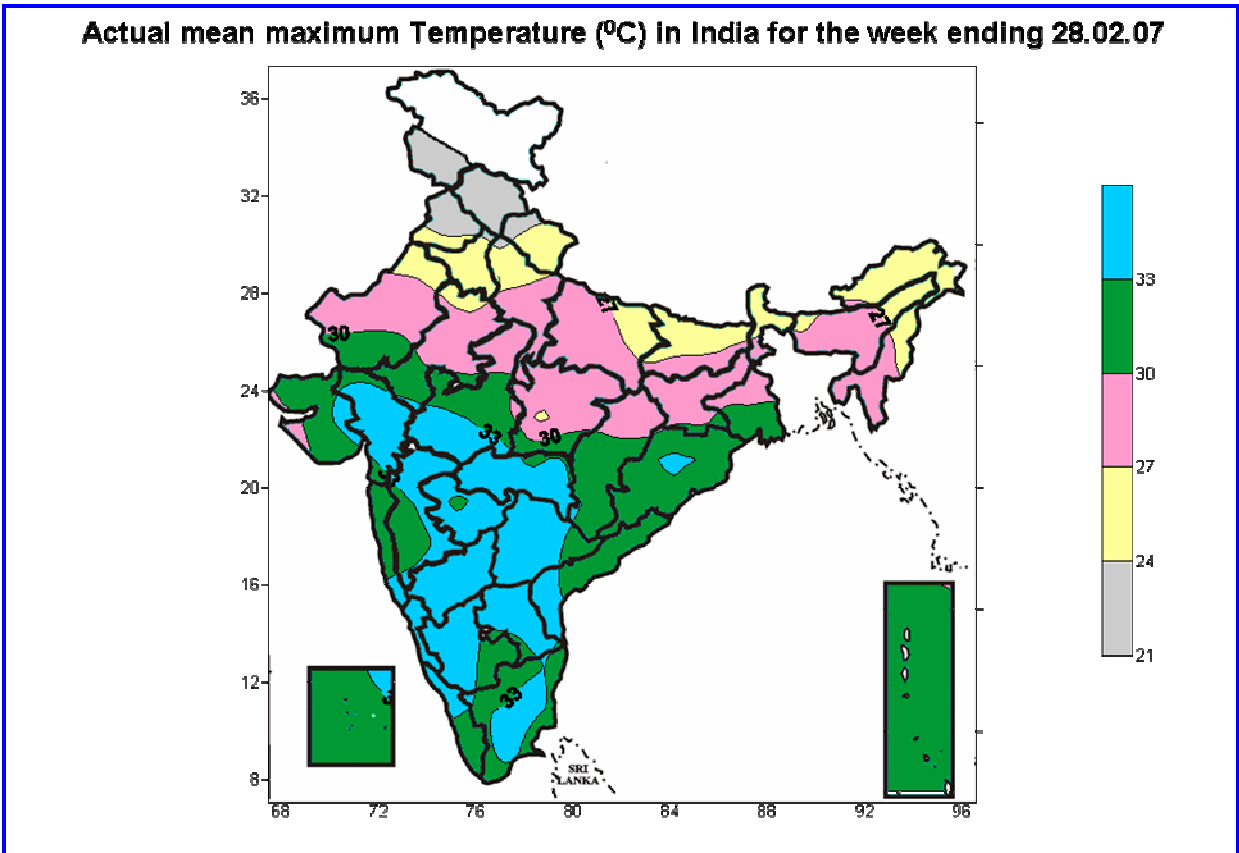
CUMULATIVE SEASONAL RAINFALL (1ST JANUARY TO 28TH FEBRUARY, 2007)

Rainfall was excess/normal in 12, deficient/scanty in 23 and no rain in 1 out of 36 meteorological sub-divisions. (Actual: 34.3 mm, Normal: 43.8 mm and Departure: -22%).

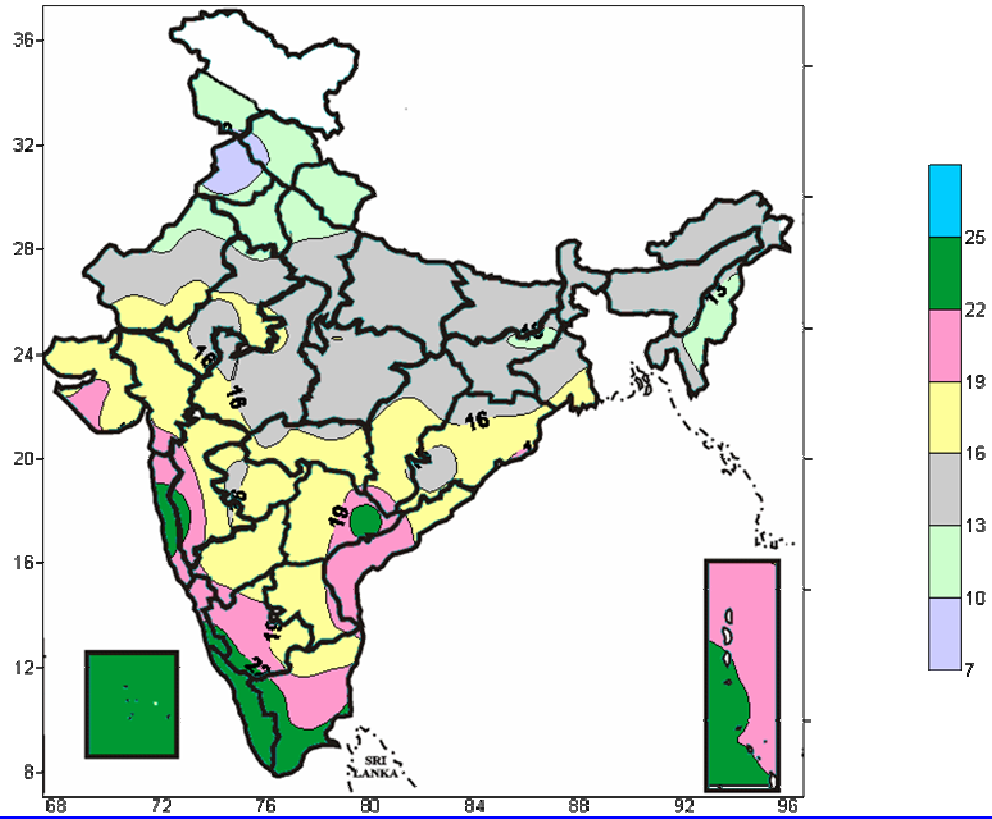
OUTLOOK FOR THE WEEK ENDING ON 7TH MARCH, 2007.

- Fairly widespread precipitation over Western Himalayan region, Indo-Gangetic plains and adjoining central India during 1st two days of the week and over northeastern States and adjoining east India during 1st three days of the week.
- Light rain/thundershowers also likely over extreme south peninsula during 1st two days of the week.
- Fall in night temperature and rise in day temperature by 4-6 °C over plains of northwest India during the week.

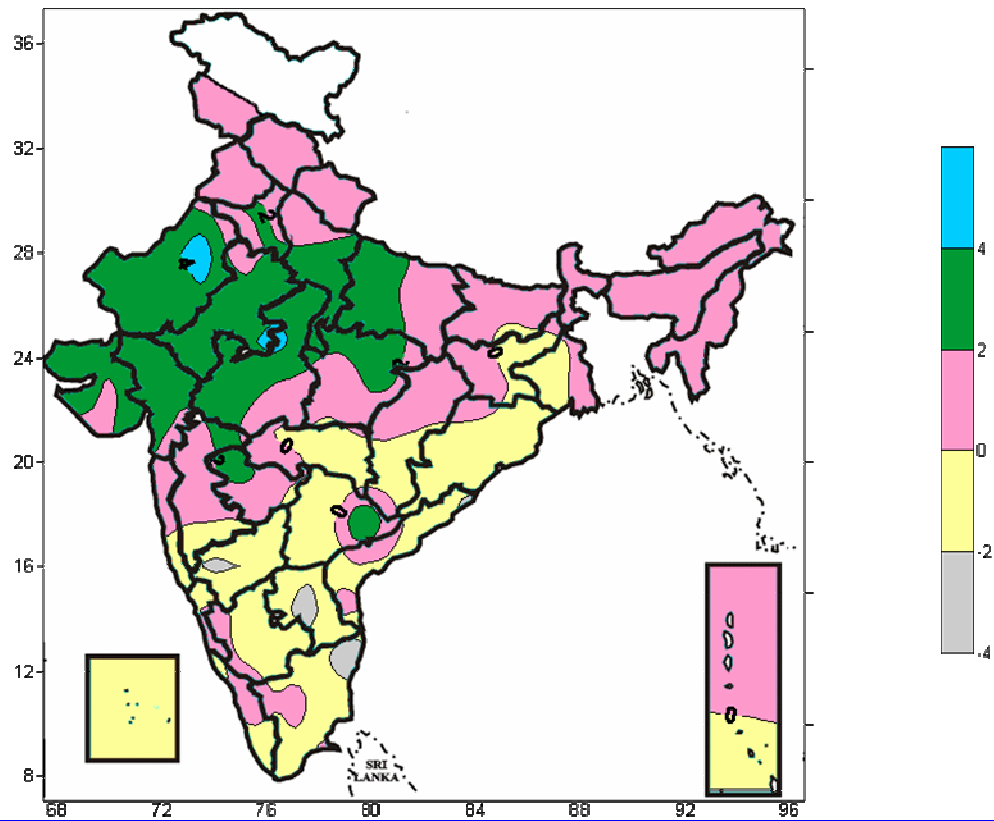
Contour maps for the week ending 28th February, 2007



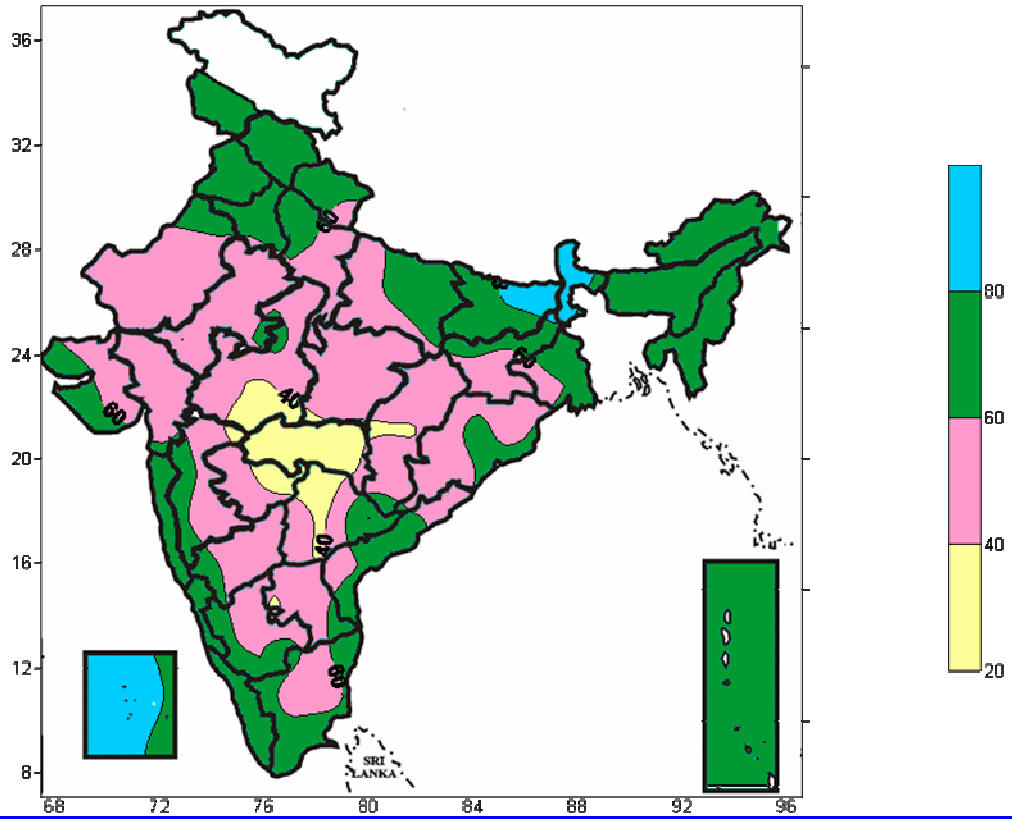
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 28.02.07



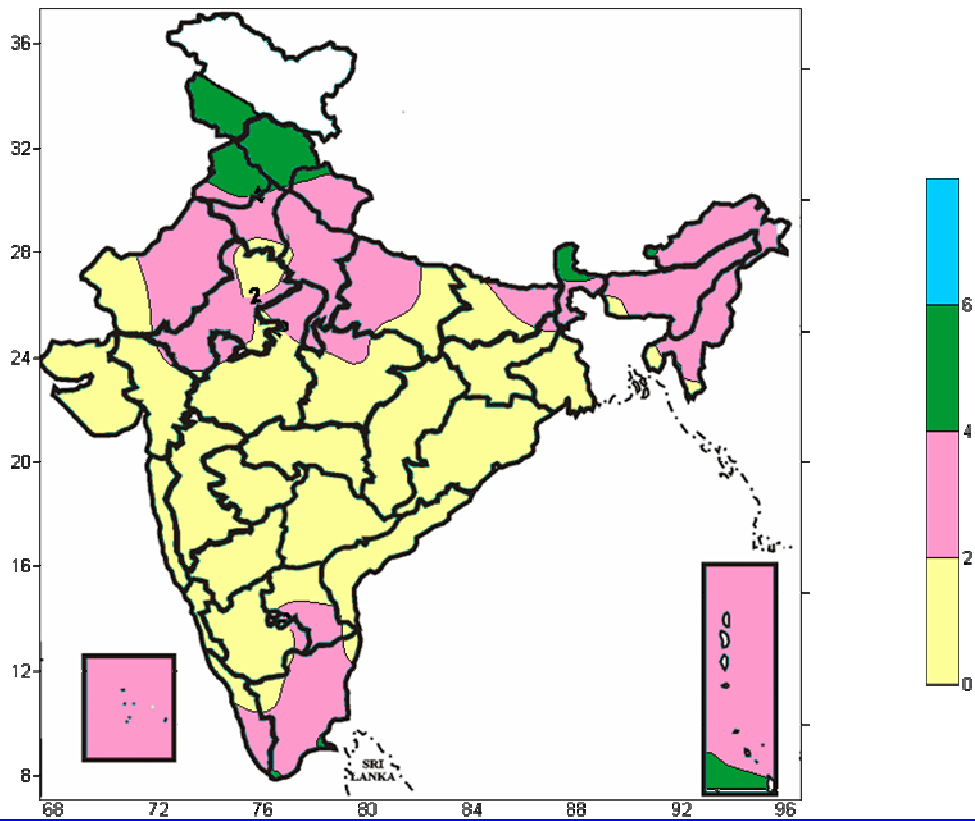
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 28.02.07

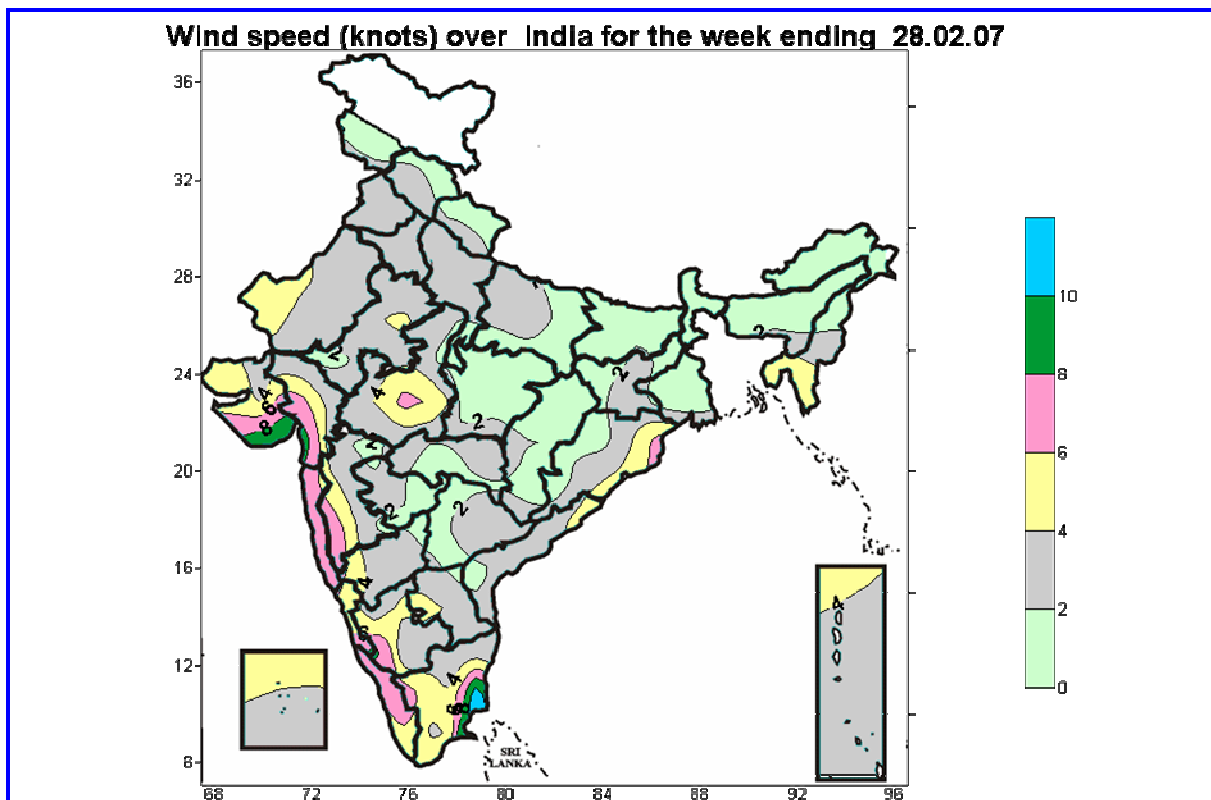


Relative humidity (%) over India for the week ending 28.02.07



Cloud amount (Okta) over India for the week ending 28.02.07





Desert Locust Forecasting



Rainfall (mm)							
Station Name	22.02.07	23.02.07	24.02.07	25.02.07	26.02.07	27.02.07	28.02.07
Amritsar	NIL						
Barmer							
Sriganganagar							
Jaisalmer							
Kota							
Deesa							
Churu							

Temperature (degree Celcius)							
Station Name	22.02.07	23.02.07	24.02.07	25.02.07	26.02.07	27.02.07	28.02.07
Amritsar	-	14.5	-	15.0	16.0	16.5	12.5
Barmer	24.0	23.5	24.0	24.0	23.0	-	26.0
Sriganganagar	17.0	17.0	16.5	-	18.0	-	-
Jaisalmer	22.0	20.0	21.5	22.5	21.5	-	24.0
Kota	24.0	24.0	23.0	18.5	27.5	-	26.0
Deesa	25.5	27.0	27.0	25.0	23.5	25.0	25.0
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/Gram
Vegetative	Sowing/ Transplanting	Vegetative/ flowering/ fruiting/ harvesting	Tillering	Flowering/Pod formation

Haryana

Horticultural crop	Sugarcane	Gram /Lentil	Rabi oilseeds	Wheat
Vegetative	Vegetative	Pod formation	Flowering	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	Flowering/Pod formation	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Vegetative
Onion	Rape seeds and Mustard	Fruit plants		
Nursery preparation	Flowering/Pod formation	Prune		

Jammu & Kashmir

Vegetable crops	Toria / Brown Sarson	Mustard	Pea/Lentil	Wheat / Barley
Flowering/ Fruiting/ Harvesting	Harvesting	Maturity	Pod maturity	Grain formation/development

Punjab

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

Rajasthan

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

Uttar Pradesh

Wheat / Barley	Rabi pulses	Sugarcane	Mango	Winter Vegetables
Vegetative/Flowering	Flowering /seed formation	Harvesting	Flowering / matured tree	Flowering/harvesting
Rabi Oilseeds(Rai and Mustard)				
Flowering /seed formation				

Uttarakhand

Pea	Mango/Litchi	Wheat	Sugarcane	Potato
Harvesting	Flowering	Flowering	Maturity / harvesting	Tuber growth
Apple				
Flowering				

Assam

Vegetables	Sugarcane	Wheat	Boro Rice	Potato
Flowering/ Fruiting/ Harvesting	Harvesting	Milk/Dough	Tillering	Tuber maturity / harvesting
Pea and Lentil	Arhar	Rape seed and Mustard	Summer Vegetables	Early Ahu rice
Pod maturity/ Harvesting	Maturity/Harvesting	Pod maturity/ Harvesting	Sowing	Nursery preparation

Arunachal Pradesh

Mustard	Ginger	Potato	Wheat	Winter vegetables
Flowering	Vegetative	Harvesting	Flowering	Harvesting
Foxtail millet				
Land preparation / sowing				

Bihar

Summer Vegetables	Rabi vegetables	Wheat		Rabi Maize
Sowing	Fruiting / harvesting	Flowering/Grain formation		Tasseling / Silking / cob initiation
	Boro Rice	Potato	Rabi Oil seeds (Torla, Sarson, Linseed)	Rabi Pulses (Lentil, Gram, Pea)
	Early vegetative/tillering	Maturity/Harvesting	Pod formation / maturity	Pod formation / maturity

Jharkhand

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

Sikkim

Maize	Mustard	Ginger	Wheat	Large Cardomom
Sowing	Siliqua Maturity	Sowing	Grain formation/development	Vegetative

West Bengal

Boro rice	Sugarcane	Wheat	Rapeseed and Mustard	Gram/ Lentil
Early vegetative / tillering	Cane maturity / harvesting	Milking / dough	Pod maturity / harvesting	Pod maturity / harvesting
Early transplanted Boro rice	Potato	Sesamum	Groundnut	Green gram
Early vegetative/Tillering	Tuber maturity / harvesting	Sowing	Sowing	Sowing

Chattisgarh

Gram / Mustard	Vegetables (Tomato, chilli, brinjal)	Sugarcane	New crops Sugarcane	Wheat
Pod maturity/Harvesting	Vegetative / Flowering/ Fruiting / harvesting	Maturity/Harvesting	Planting	Milk/Dough/Maturity
Sunflower	Early Sown Sunflower	Summer Vegetables	Potato	Early sown Sugarcane
Field preparation / sowing	Germination / early vegetative / vegetative	Sowing	Tuber Maturity/Harvesting	Sprouting/Early vegetative/vegetative
Linseed	Summer sesamum			
Seed maturity/Harvesting	Field preparation/sowing			

Gujarat

Mustard	Wheat	Summer Rice	Castor	Summer Bajra
Pod Maturity/Harvesting	Milk/Dough/maturity	Transplanting	Spike formation/Maturity	Land preparation/Sowing
Kharif Cotton	Summer Groundnut	Early sown Groundnut	Sugarcane	New Sugarcane
Picking	Land preparation/sowing	Germination/Vegetative	Harvesting	Planting
Early Sown Sugarcane	Early transplanted Rice			
Sprouting/Early vegetative/Vegetative	Early vegetative/Tillering			

Maharashtra

Sugarcane (Seasonal) (Madhya Maharashtra, Marthwada and Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Safflower (Madhya Maharashtra, Marathwada & Vidarbha)		
cane maturity / harvesting	Grain maturity / harvesting	Head maturity/Harvesting		

Wheat (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Gram (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Rabi Maize (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Rabi Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)
Dough/Maturity	Pod maturity / harvesting	Cob maturity/Harvesting	Seed maturity / harvesting	Early vegetative/active growth
Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Summer Rice (Konkan, Vidarbha & Kolhapur dist.)	Summer Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)
Tuber maturity/Harvesting	Bulb growth /bulb maturity	Land preparation/sowing	Seedling/Transplanting /tillering – in Sindhudurg dist.	Land preparation/Sowing
Summer Bajra (Madhya Maharashtra, Marathwada & Vidarbha)	Early sown Summer Bajra (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Summer Maize (Madhya Maharashtra, Marathwada & Vidarbha)	Early sown Summer Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)
Land preparation/Sowing	Germination	Germination/Seedling/Vegetative –in Sindhudurg dist.	Land preparation/sowing	Germination

Madhya Pradesh

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

Orissa

Vegetables	Dalua Rice	Mustard	Pulses	Rabi Groundnut
Flowering / Fruiting / Harvesting	Transplanting	Pod formation/ pod maturity	Flowering / pod formation	Pod formation/ Pod maturity
Sugarcane	New Sugarcane crop	Early sown Sugarcane		Early transplanted Dalua Rice
Maturity / harvesting	Planting	Early vegetive		Tillering

Andhra Pradesh

Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice
Pod formation/Development	Cob development/Maturity	Harvesting	Pod Maturity	Tillering

Karnataka

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

Kerala

Rubber	Mundakan rice	Puncha rice		
Tapping	Harvesting	Transplanting		

Tamil Nadu

Rice (Navarai)		Cotton	Rice fallow Pulses (Blach gram and Green gram)	Oilseeds (Groundnut)
Tillering		Vegetative	Vegetative	Vegetative
Sunflower	Maize	Early planted Sugarcane	Sugarcane (Early season)	
Vegetative	Vegetative	Early vegetative/Vegetative	Planting	
