

Summary of Agromet Advisory Services for different States of the country Issued by

Agricultural Meteorology Division, India Meteorological Department, Pune, India

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(For the period 18th January to 22nd January, 2007) The extended version of the bulletin is also available at http://imdagrimet.org

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

Punjab

Cold wave conditions are prevailing in some parts of the State and likely to abate in next 48 hours.

Isolated rain / thundershowers are likely over the State. Night temperatures are likely to increase by 2-3^oC during next 24 hours and fall there after over the plains. Fog is also likely at some places in the plains.

Advisories

- Make necessary arrangements to protect the *rabi* oilseed, gram, lentil, wheat and vegetable crops from cold injury. Apply light irrigation and arrange for smoke around the field to prevent cold injury. Wipe out water droplets on the leaves by pulling rope from two sides of the field.
- There was no significant rainfall in the State during last few weeks and rain / thundershower is likely to occur only at isolated places for the next three days. Under the circumstances, apply irrigation in sugarcane, *rabi* oilseeds, gram, lentil and wheat.
- 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.
- Harvesting of early maturing varieties of toria may be completed and mid varieties may be continued.

Haryana

Cold wave conditions are prevailing in some parts of the State and likely to abate in next 48 hours.

Isolated rain / thundershowers are likely over north Haryana & mainly dry weather is likely over remaining region of Haryana. Night temperatures are likely to increase by 2-3°C during next 24 hours and fall there after over the plains. Fog is also likely at some places in the plains.

- Make necessary arrangements to protect the *rabi* oilseed, gram, lentil, wheat and vegetable crops from cold injury. Apply light irrigation and arrange for smoke around the field to prevent cold injury. Wipe out water droplets on the leaves by pulling rope from the two sides of field.
- There was no rainfall during last few weeks and rain / thundershowers likely to occur only at isolated places in north Haryana for the next three days. Under the circumstances apply irrigation to sugarcane, gram, lentil and wheat.
- Attack of late blight is reported in potato. In order to check further spread of the disease, spray Dithane M-45
 © 500 g / acre.
- Continue sowing of sunflower.

• Attack of white rust, blight diseases and painted bug and leaf miner pests is reported in mustard. Monitor the crop for the pests and if the pest population crosses ETL, undertake plant protection measures. For controlling leaf miner, spray Dimecron @ 250 ml / ha or Methyl Demiton @ 850 ml / ha.

Rajasthan

Weather remained dry in all divisions of the State. Night temperatures were above normal by 1° to 2°C in Ajmer division and remained normal in Kota, Jaipur, Jodhpur, Bikaner and Udaipur divisions in the State.

Mainly dry weather is likely over the State. Rise in night temperature by 2-3°C over the state during next 24 hours and fall thereafter.

Advisories

- Apply irrigation and arrange for smoke near the field in north Rajasthan to safeguard the crops from cold injury.
- Wipe out water droplets on the leaves by pulling rope from the two sides of the field.
- Apply irrigation to mustard, wheat, gram, cumin and barley as there was no significant rainfall during last week and mainly dry weather is likely over the state.
- Monitor mustard for aphid attack and if the pest population crosses ETL, dust Methyl parathion 2% or spray Endosulfan 35 EC or 50 EC @ 1.25 lit / ha.
- Also monitor gram for pod borer and cumin for aphid attack and if the pest population crosses ETL, undertake
 plant protection measures.

Uttar Pradesh

Weather was mainly dry in all divisions of the State.

Mainly dry weather is likely over the State. Night temperature are likely to increase by 2-3^oC during next 24 hours and fall thereafter over the plains in the State. Fog is also likely at some places in the plains of West U.P.

Advisories

- Make necessary arrangements to protect the standing crops from cold injury. Apply light irrigation and arrange for smoke around the field to prevent cold injury. Wipe out water droplets on the leaves by pulling rope from the two sides of field.
- There was no significant rainfall during last few weeks and mainly dry weather is likely over the State for the next three days. Under these circumstances, apply irrigation to bring the soil moisture to its field capacity in *rabi* oilseed, pulses and winter vegetable crops.
- Monitor mustard crop for sawfly and *mahu* and if the pests population crosses ETL, spray Endosulphan @ 1.25 litres / ha to control the pests.
- Monitor mango for hopper and if the pests population crosses ETL, spray Monocrotophos @ 1 ml / litres of water to control the pests.
- To control bukani diseases in pea, spray the solution of Wettable sulphur @ 2 kg or Carathane 600-700 ml / ha.
- Harvesting of sugarcane and *toria* may be continued.

Himachal Pradesh

The weather was mainly dry during the period.

Snowfall is likely at a few places in the state during the next 48 hours.

- As there was no significant rain during last few weeks over the State, apply irrigation to vegetable crops, gram, rapeseed and mustard, wheat and barley.
- Complete land preparation and nursery sowing and transplanting of cauliflower and cabbage in low and mid hills, sowing of raddish, turnip and carrot.
- Apply first split dose of N @ 25 30 kg / ha at crown root initiation stage (20 25 days after sowing) and second split dose of N @ 25 30 kg / ha at tillering stage (40 45 days after sowing) 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. Spraying can be repeated at 15 days interval, if the pest still persists.
- To control grassy weeds in barley, spray isoproturon @ 0.75 kg / ha and for broad leaved weeds, 2,4-D Sodium @ 0.75 kg / ha (Fernoxone or Bathua Powder) in 700-800 litres of water at 2-3 leaf stage of weeds per hectare.
- Undertake nursery preparation of onion with N 53 variety
- As there is chance of occurrence of frost, farmers are advised to arrange for smoking around the field to save the crops from frost.
- 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

Mainly dry weather prevailed during the period. Sky remained mainly clear to partly cloudy during the week. Snowfall is likely at isolated places over the State during next 48 hours.

Advisories

- Apply irrigation to mango, potato and wheat crops as there was no rainfall during last few weeks in the State.
- Carryout intercultural operation, application of fertilizer and plant protection measures to wheat and potato crops.
- As there is chance of occurrence of frost, farmers are advised to arrange for smoking around the field to save the crops from frost.
- Apply light irrigation to prevent frost injury in potato and wheat.
- 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.
- Continue harvesting matured crops of *toria*, sugarcane and pea.

Jammu & Kashmir

Weather remained dry in J & K state.

Snowfall is likely at a few places over the State.

- Apply irrigation and 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.
- Apply irrigation to mustard, wheat, peas and *rabi* vegetables as there was no rainfall during last week.

- Rouge out late blight affected crops of potato in Jammu division to prevent further spread of the disease.
- Due to congenial weather, there are chances of termite attack in wheat. Apply Aldrin @ 5 litres / ha along with irrigation water in case of attack.
- This is proper time for transplanting of tomato, onion and knoll-kholl.

Delhi

Weather remained dry during the period.

Mainly dry weather is likely over the state. Night temperature is likely to increase by 2-3^oC during next 24 hours and fall thereafter over the plains. Fog is also likely at some places in the plains.

Advisories

- As there was no significant rainfall during last few weeks and mainly dry weather is likely over the State for
 next three days, apply irrigation to early sown vegetable crops and also to barley, gram, mustard and wheat to
 bring the soil moisture to its field capacity.
- Apply first irrigation at crown root initiation stage (20 25 days after sowing), second irrigation at tillering stage (40 45 days after sowing) and third irrigation at 60 65 days after sowing of wheat.
- Prepare land and perform transplanting of onion sedlings.
- Apply first split dose of N @ 25 30 kg / ha at crown root initiation stage (20 25 days after sowing) and second split dose of N @ 25 30 kg / ha at tillering stage (40 45 days after sowing) of wheat.
- To control wild oats and *Phalaris minor* in wheat crops, use isoproturan 75% W.P. @ 1 Kg / ha and 2, 4-D AMIEN salt 58 EC @ 750-1000 ml / ha for controlling broad leaved weeds after 28-35 days of sowing.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Weather was dry over the State during the period.

Mainly dry weather is likely over the State.

Advisories

- There was no significant rainfall in the state during last few weeks and mainly dry weather is likely over the State for the next three days. Under the circumstances, apply irrigation to plantation crops to bring the soil moisture to its field capacity.
- Stop irrigation 15 days prior to harvest of *mundakan* rice. Start harvesting the matured crop.
- Attack of pseudo stem weevil is reported in banana. In endemic areas, first remove the dry outer sheath of the pseudostem of the plant and spray Carbaryl @ 0.2%. Spraying / drenching may be done on all leaf axils, rhizome, surrounding soil and all the bore holes of pseudostem, made by larvae. Repeat the treatment after 3 weeks if infestation persists.
- Attack of red palm weevil insect is reported in coconut. Fill the leaf axils with 25 gm Sevidol 8G and fine sand 200 gm for controlling red palm weevil.

Tamilnadu

Mainly dry weather prevailed over Coastal Tamilnadu and dry weather over Interior Tamilnadu on 15^{th} and dry weather over the State on 16^{th} and 17^{th} January.

Mainly dry weather is likely over the State.

Advisories

- Apply irrigation to the rice, millets, sunflower, cotton and groundnut as there was no rainfall for the last few weeks and dry weather is likely to prevail for the next three days.
- Start land preparation and sowing of maize and rice fallow pulses. Undertake planting of early sugarcane.
- Continue land preparation and sowing of nursery for *thaladi* rice.
- Monitor groundnut for red hairy caterpillar and leaf miner and if the pest population crosses ETL, spray Monocrotophos @ 625 ml / ha to control red hairy caterpillar. Dust 4% Carbaryl or spray Methyl demeton @ 0.02% to control leaf miner.

Karnataka

Dry weather prevailed over the State on all days.

Mainly dry weather is likely over the State.

Advisories

- Apply irrigation to jowar, sunflower, wheat and maize as there was no rainfall during last few weeks and dry weather is likely to prevail for the next three days.
- Undertake intercultural operations in wheat and sugarcane to keep the field weed free.
- Undertake transplanting of *summer* rice in the main field. Maintain thin film of water at the time of transplanting.

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 few weeks over the State and dry weather is likely to prevail over the State for the next three days. Under the circumstances, apply irrigation to *rabi* crops like gram, maize, red gram and groundnut to bring the soil moisture to its field capacity.
- Continue transplanting of *rabi* rice. Maintain thin film of water at the time of transplanting in the main field.
- Attack of stem borer is reported in rice nursery in West Godavari district. Spray Monocrotrphos @ 2ml / liter
 of water to control the pests.
- Attack of *Maruka* stem borer is reported in red gram. Spray Diclhlorovos @ 1ml + Chlorypyriphos @ 2.5 ml / liter of water to control the pest.

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

Assam

Light rain occurred at isolated places on 15th & 16th and Weather was mainly dry on 17th January over the State.

Mainly dry weather is likely over the State.

- As there was no significant rain during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to wheat, rapeseed and mustard, potato, pea, lentil and early sown vegetables.
- Continue harvesting of sugarcane and arhar. Red rot infested canes should be harvested early and field should

be newly planted and rotooning should be discouraged.

- Apply second split dose of N @ 25 30 kg / ha at tillering stage (40 45 days after sowing) of wheat.
- Mild incidence of red rot in sugarcane, pod and apion borer in arhar, aphids and saw fly in mustard and late blight in tomato is reported in a few localities.
- Monitor aphids and saw fly in mustard and if crosses economic threshold level, spray Rogor or malathion @ 2ml per litre of water.
- 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.
- There is mild chance of attack of aphids and stem borer and leaf blight and leaf spot diseases in wheat. Apply Dimecron 100 E.C. @ 0.5 ml per litre of water or Malathion 50 E.C. @ 2 ml per litre of water to control aphids and stem borer. For control of leaf blight and leaf spot diseases apply Diathane Z -78 @ 2.5 gm per litre of water.
- There is mild chance of attack Hispa, Brown Plant Hopper and blast and sheath blight diseases in rice. If crosses economic threshold level, to control Hispa and Brown Plant Hopper insecticides like Chloropyriphos 20E.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.
- Continue land preparation and sowing of winter vegetables.
- Maintain 3-5 cm water at tillering stage in the rice field.

Arunachal 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 in the State during last few weeks and mainly dry weather is likely over the State for next three days. Under these conditions, apply irrigation to winter vegetables, potato, mustard, wheat and ginger crops.
- Intercultural operation may be continued in mustard, 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.

Bihar

Weather remained dry.

Mainly dry weather is likely to prevail over the state. Rise in night temperature by 2-3°C over the state during next 48 hours and fall thereafter.

- There was no rainfall during last few weeks and mainly dry weather is likely over the State for next three days. Under the circumstances, apply required irrigation to vegetables, maize, pulses, oilseeds and wheat.
- Apply split dose of N @ 25 30 kg / ha as top dressing at tillering stage (40 45 days after sowing) of wheat.
- There is mild chance of attack of late blight attack in potato. If late blight attack crosses economic threshold level, spray Mancozeb @ 2 kg / ha or Mancozeb mixed with Metalaxyl @ 2 kg / ha. 2-3 spraying may be

required at an interval of 15 days.

- There is mild chance of attack of blight in pulses. If blight attack crosses economic threshold level, spray Mancozeb mixed with Carbendazim which is available in market or saaf @ 2kg/ha.
- There is mild chance of attack of aphids in *rai* and *sarson*. If attack of aphids crosses economic threshold level, spray Imidachlorpid @ 100ml / ha or acephate @ 800 g / ha in evening hours.
- Prepare land and start sowing of summer vegetables like bhindi, bottle gourd, sponge gourd and transplanting of *boro* rice. Transplant 2 3 plants per hill in rice field.

.Iharkhand

Weather remained mainly dry.

Mainly dry weather is likely over the state. Rise in night temperature by 2-3^oC over the state during next 48 hours and fall thereafter.

Advisories

- There was no rainfall during last week and mainly dry weather is likely over the State for next three days.
 Under the circumstances, apply irrigation to bring the soil moisture to field capacity in vegetables, maize and potato, pulses, oilseed and wheat crops.
- Continue field preparation and sowing of summer vegetables like pumpkin, Kadima, Khira, watermelon, and kharbooj.
- Apply split dose of N @ 25 30 kg / ha at tillering stage (40 45 days after sowing) of wheat.
- 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).
- 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.
- There is mild chance of attack of pod borer in arhar. If crosses economic threshold level, spray Monocrotophos @ 1ml / litre of water.

Sikkim

Sky remained generally cloudy during the period. Very light rain occurred on 15th, 16th and 17th January over East Sikkim. Rainfall was deficient during the period.

Mainly dry weather is likely over the State.

- There are chances of cold injury due to anticipated fall in night temperature. Undertake the following measures to overcome cold injury.
 - Apply irrigation and arrange for smoke near the field to safeguard the crops from cold injury.
 - Wipe out water droplets on the leaves by pulling rope from the two sides of field.
- Apply irrigation to vegetables, mustard and wheat as there was no significant rainfall during the last few weeks and dry weather is likely to prevail over the state for the next three days.
- Monitor *rabi* vegetables for pests like leaf eating caterpillars and if the pest population crosses ETL, undertake plant protection measures.
- Monitor orange for trunk borer and plug the holes made by the pest to prevent further damage. Remove parasitic weeds over grown up tree.

West Bengal

During the period on 17th very light rain occurred at a few places with rather heavy falls at an isolated places in Gangetic West Bengal. Weather remained dry elsewhere during the period.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall in the State during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to sugarcane, rapeseed and mustard, gram and lentil, wheat and potato crops.
- Apply second split dose of nitrogenous fertilizer (25 30 kg N / ha) at 40 45 days after sowing at tillering stage of wheat.
- To check Boron deficiency in wheat spray Borax @ 5 g / litre of water on the standing crop.
- Uproot or rogue out and burn the wrinkle leaf affected plants of potato. The disease is spread by white fly. Spray dimethoate @ 2 ml per litre of water to control white fly.
- Land should be prepared and transplanting of boro rice may be carried out. Prepare land and transplant 2 3 plants per hill in rice field. Apply N @ 50 kg, P₂O₅ @ 50 kg and K₂O @ 50 kg per ha at the time of land preparation.
- To avoid cold injury in rice seed bed, immerse the field with water over night and drain out in the morning.
- There is mild chance of attack of brown spot disease in rice nurseries. If crosses economic threshold level, spray ediphenphos 50% @ 1 ml or triamiphos 48% @ 1 ml or carbendazim 50% @ 1 g to manage the disease. 750 litres of water is required for spraying 1 ha of land.

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

Gujarat

Weather remained dry during the period.

Mainly dry weather is likely over the State.

- As there was no significant rain in the State during last few weeks and weather will be mainly dry over the State for next three days, apply irrigation to pre-monsoon irrigated cotton, *Kharif* cotton, castor, mustard and wheat to bring the soil moisture to field capacity.
- Continue harvesting of already matured crops of sugarcane. Harvest the crop when brix reading of sugarcane is 19 or more unit.
- Prepare the seed bed for raising rice nursery. Give seed treatment with Amisan or captan @ 3 gms per kg seeds to prevent fungal diseases. To control seed borne diseases soak the seeds 8 to 10 hours in mixture of 6 g streprocycline and 12 g mercury compound in 25 liter water. Dry the seeds and use for nursery.
- There is mild chance of attack of aphids, mustard saw fly and jassids in mustard. If aphid population exceeds economic threshold level, spray pesticides phosphamidon @ 4 ml or dimethoate @ 10 ml or monocrotophos @ 12.5 ml in 10 liter water as per requirement. Second spray 10 to 15 days after first spray if required or dust the methyl parathion 2% powder or quinalphos 1.5 % @ 25 kg / ha.
- Apply first split dose of N @ 25 30 kg / ha at crown root initiation stage (20 25 days after sowing) and second split dose of N @ 25 30 kg / ha at tillering stage (40 45 days after sowing) of wheat.

Chhattisgarh

Weather remained dry in the State during the period.

Mainly dry weather is likely over the State.

Advisories

- As there was no rainfall in all the districts during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to sugarcane, vegetables, gram, mustard, potato, linseed, safflower and wheat and also to early sown sunflower wherever crops are at vegetative stage.
- Continue preparation of land and sowing of sunflower and planting of new crop of sugarcane.
- Select varieties from CO-62175, C.O.L.K.-8001 etc. for planting of sugarcane.
- Apply second split dose of N @ 25 30 kg / ha at tillering stage (40 45 days after sowing) of wheat.
- Undertake earthing up in potato crop.

Maharashtra

Dry weather prevailed all over the State.

Mainly dry weather is likely over the State.

- 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 *rabi* jowar, safflower, *rabi* maize, sunflower, potato, onion, gram, sugarcane (Pre-seasonal) and wheat.
- Inter cultural operation may be done 2 to 3 times in non-irrigated Jowar to preserve moisture in the field.
- Second dose of 40 kg Nitrogen / ha may be applied to late sown wheat after weeding.
- Second dose of 136 kg Nitrogen / ha may be applied after 6 to 8 weeks from planting of sugarcane (Preseasonal). Dose may be given with 1 kg Neem cake powder in 6 kg Urea.
- Second dose of 50 kg Nitrogen / ha may be applied to potato before irrigation.
- To increase pollination at flowering stage in sunflower, hand covered with woolen cloth may be moved 3 to 5 times on floral disc smoothly day after day early in the morning.
- Mild incidence of White Woolly Aphids in Aurangabad and Latur & Pyrilla, White fly & mealy bug in Nashik and white fly in Latur division in sugarcane, Aphids and Jassids in Nagpur and Aurangabad and also Lalya disease in Amravati, Aurangabad and Nagpur and Boll worm in Amravati division in cotton and leaf roller in Nagpur and Aurangabad, pod borer in Amravati division in tur, Aphids and Leaf cater pillar in Nashik division and Sugary disease in Kolhapur division in rabi jowar, Aphids in Latur & Aphids & Jassids in Amravati division in safflower, Rust in Kolhapur division in wheat, Pod borer in Pune, Latur, Kohlapur, Amravati and Nashik division in gram and Hairy cater pillar in Kohlapur division in sunflower is reported.
- Monitor infested plant by Sugary disease, aphids in *rabi* jowar & if exceeds economic threshold level, spray 5% Neem extract or Diamethoate 500 ml or Methyl Dimeton 400 ml or Monocrotophos 300 ml / ha in 500 liter water.
- Monitor Aphids in Safflower and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 700 ml or 25 EC Quinolphos @ 1000 ml/ha in 500 liter water. Second spraying may be done after 15 days.
- 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.
- Monitor Pod borer in gram and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 1000 ml or 25 EC Quinolphos @ 1000 ml / ha in 500 liters water.

- Monitor Hairy cater pillar in Sunflower and if exceeds economic threshold level, spray 5% Neem extract or spray 35% Endosulphon @ 1000 ml or 25 % Quinolphos @ 1000 ml / ha in 500 liters water or dust 10% Carbaril powder or 1.5% Quinolphos powder @ 25 kg / ha.
- There is mild chance of occurrence of blast disease in onion. For the control of Blast disease, spray Blitox or Indofil M-45 @ 1250 gm/ha in 500 liter water.
- Sowing of summer groundnut may be done during 15 January to 12 February. For sowing select a variety from SB-11, M-13, GT-26, TAG-24, TPG-41 & Koyna. First seeds may be treated with 2.5 gm Carbondazim / kg seed & then 250 gm Rizobium and 250 gm P.S.B. / 10 kg seeds. 100 -125 kg seeds / ha may be used for sowing. 25 kg Nitrogen & 50 kg Phosphorus / ha may be applied at the time of sowing.

Madhya Pradesh

Dry weather prevailed over the State.

Mainly dry weather is likely over the State.

Advisories

- Apply irrigation and arrange for smoke near the field to safeguard the crops from cold injury.
- Wipe out water droplets on the leaves by pulling rope from the two sides of field.
- There was no rainfall in all the districts during the last few weeks and mainly dry weather is likely to prevail for the next three days over the State. Under the circumstances, apply irrigation to early sown *rabi* crops like wheat, gram and mustard to bring the soil moisture to its field capacity.
- Undertake intercultural operations like weeding in gram, mustard, wheat, masoor, linseed etc., to keep the field weed free.
- Monitor gram for leaf eating caterpillar. If the pest population crosses ETL, spray Monocrotophos @ 750 ml / ha
- Monitor mustard, masoor and linseed for mahu insect and apply Methyl Parathion 2% dust @ 20 kg / ha to control the pest.

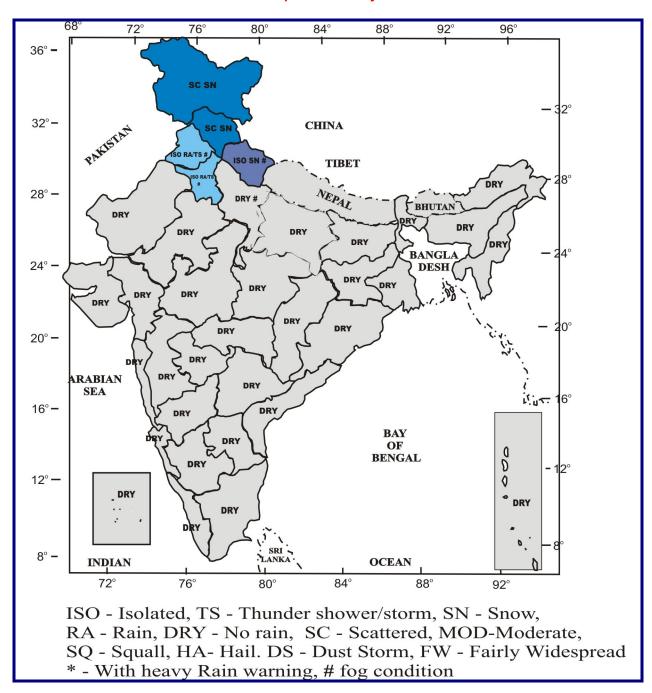
Orissa

Weather was dry over the State on 15th January & 16th January and rainfall occurred at isolated places over the State on 17th January.

Mainly dry weather is likely over the State.

- There was mainly dry weather except in Balasore and Mayurbhanj districts during last week and mainly dry weather is likely over the State for next 3 days. Under the circumstances, apply irrigation to mustard, vegetables, groundnut and pulses to bring the soil moisture to field capacity.
- Continue nursery preparation and sowing and transplanting of *dalua* rice.
- 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 pod borer population in pulses (arhar) crosses ETL, spray Endosulphan @ 2 ml per litre of water.
- If aphid population in mung crosses ETL, spray 50 ml Imidachloprid in 200 litres of water per acre.
- If Powdery mildew attack in pulses crosses ETL, spray sulfax @ 5 gm per litre in 200 litres per acre.
- Monitor brinjal for *Epilachna* beetle and if it crosses ETL, spray Carboryl @ 4 g/litre of water.

Forecast Map Valid upto 21st January 07



Salient weather features for the week ending 17/01/07

METEOROLOGICAL ANALYSIS

- A weak easterly wave affected Nicobar Islands and coastal Tamil Nadu during the week.
- A cyclonic circulation at lower levels lay over Assam and neighbourhood during 11-13th January. It lay over Nagaland, Manipur, Mizoram & Tripura and neighbourhood during 14-16th January with a trough extending upto Sub-Himalayan West Bengal & Sikkim at lower levels.

A cyclonic circulation at lower levels lay over Gangetic West Bengal & adjoining north Orissa and Jharkhand on 16th January evening. It lay over Gangetic West Bengal and neighbourhood with a trough extending towards south Orissa on 17th January.

RAINFALL

Under the influence of the above systems:

- Isolated rain/thundershowers occurred over Arunachal Pradesh and Assam during 12-14th January.
- Isolated rain/thundershowers occurred over Sub-Himalayan West Bengal & Sikkim during 15-17th and over Jharkhand, Orissa and Gangetic West Bengal on 17th January.
- Isolated rain/thundershowers occurred over Nicobar Islands on 16th January.
- Mainly dry weather prevailed over the remaining parts of the country during the week.

FOG

Morning fog conditions prevailed at some places in Indo-Gangetic plains during 11-13th
 January. Isolated fog conditions prevailed during remaining days of the week.

MINIMUM TEMPERATURES

- Cold wave/severe cold wave conditions prevailed over some parts of Punjab, Haryana and north Rajasthan during the week. Cold wave conditions also prevailed over some parts of East Uttar Pradesh and Bihar during many days of the week. Minimum temperatures were below normal by 2-3°C over remaining parts of Indo-Gangetic plains during the week.
- The night temperatures were below normal by 2-3°C over remaining parts of Rajasthan during many days of the week. They were also below normal by 2-3°C over Gujarat during 14-15th January. They were normal over remaining parts of west India during the week.
- They were above normal over northeastern states by 2-3°C in the beginning of the week and became below normal by 2-3°C in the second half of the week due to gradual decrease in minimum temperature.
- They were below normal by 2-3°C over Madhya Pradesh and north Chhattisgarh during second half of the week and normal over remaining parts of central India during the week.
- They were below normal by 2-3°C at some places of the south peninsula during 14-16th January and were normal over the rest region during the week.

RAINFALL DURING THE WEEK ENDING ON 17TH JANUARY, 2007.

Rainfall was excess/normal in 2, deficient/scanty in 4 and no rain in 30 out of 36 meteorological sub-divisions (Actual: 0.4 mm, Normal: 3.9 mm and Departure: -89%).

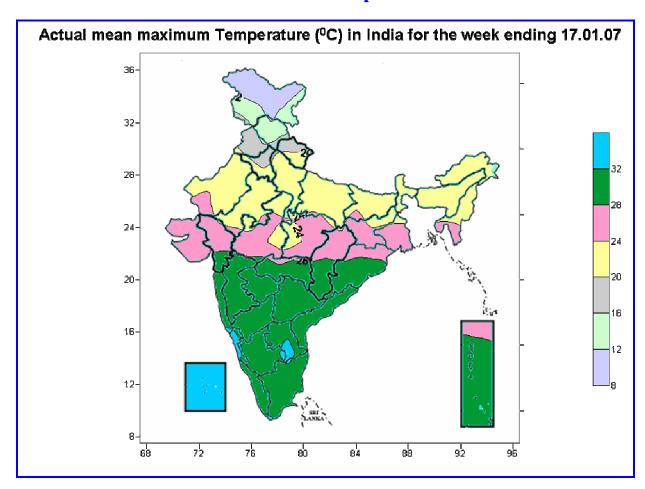
CUMULATIVE SEASONAL RAINFALL (1ST JANUARY TO 17TH JANUARY, 2006)

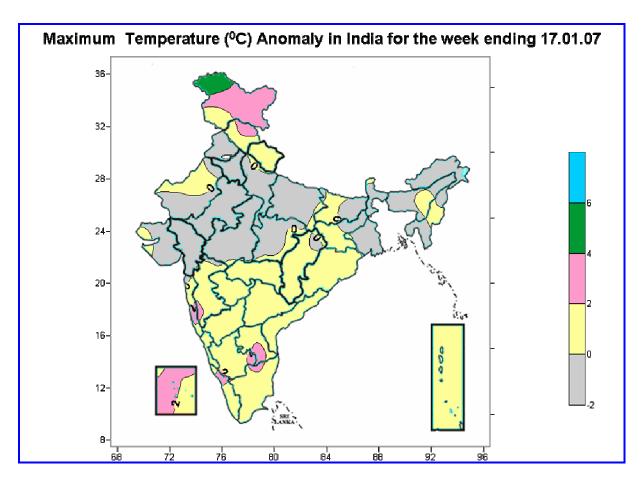
Rainfall was deficient/scanty in 7 and no rain in 29 out of 36 meteorological sub-divisions. (Actual: 0.5 mm, Normal: 10.1 mm and Departure: -95%).

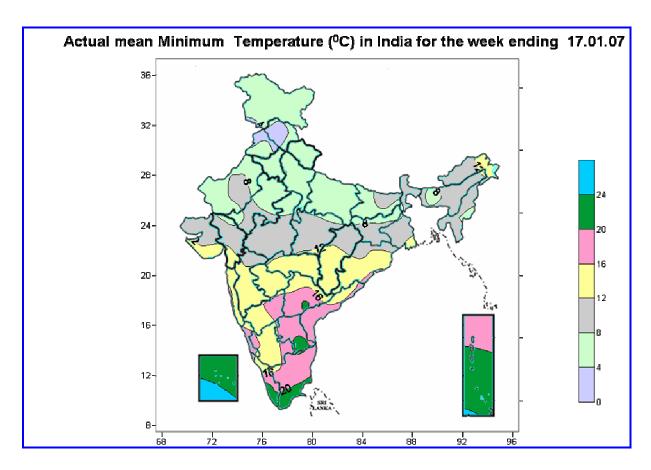
OUTLOOK FOR THE WEEK ENDING ON 24TH JANUARY, 2007.

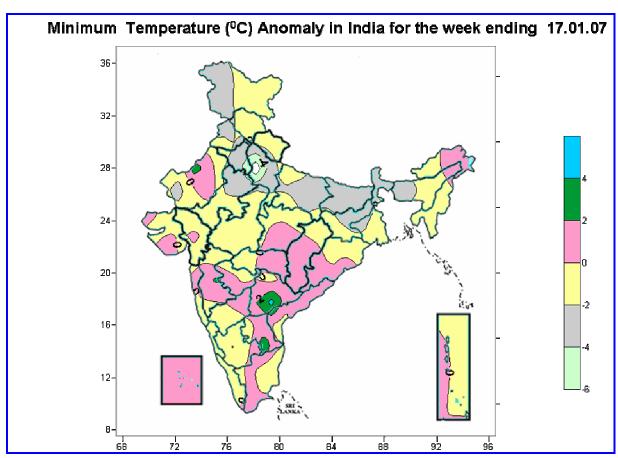
• Rise in night temperature over Indo-Gangetic plains during next 1-2 days and fall thereafter along with fog condition at some places.

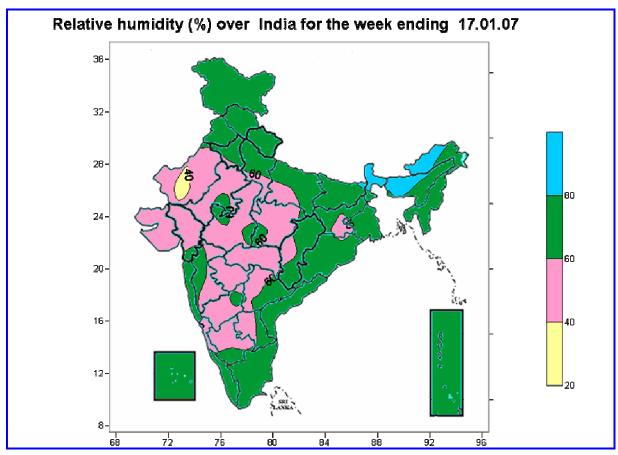
Contour maps

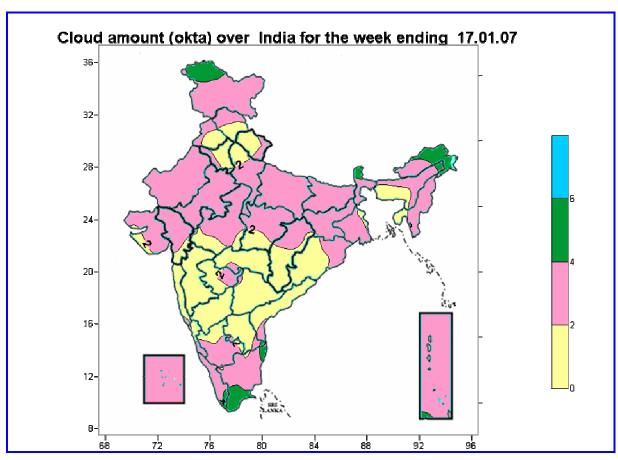


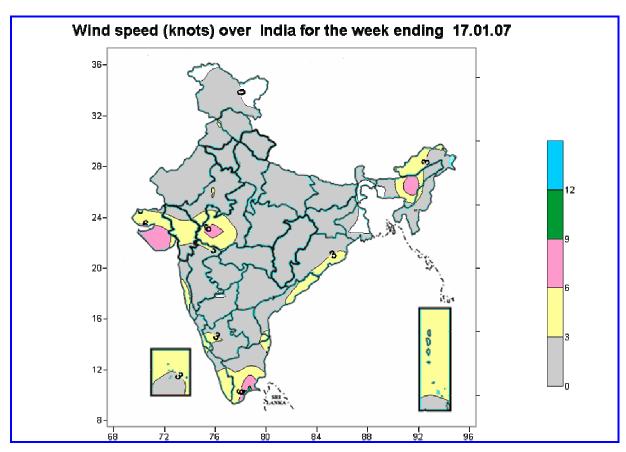














Rainfall (mm)							
Station Name	11.1.07	12.1.07	13.1.07	14.1.07	15.1.07	16.1.07	17.1.07
Amritsar							
Barmer							
Sriganganagar	NIL						
Jaisalmer				TVIE			
Kota							
Deesa							
Churu							

Temperature (degree celcius)							
Station Name	11.1.07	12.1.07	13.1.07	14.1.07	15.1.07	16.1.07	17.1.07
Amritsar	8.5	9.0	9.5	9.0	8.0	9.0	9.5
Barmer	-	14.5	15.5	-	15.5	16.5	17.5
Sriganganagar	-	11.5	13.0	-	12.5	12.5	-
Jaisalmer	14.0	16.0	15.5	-	18.0	17.5	18.0
Kota	17.0	15.0	14.5	-	15.5	17.0	16.5
Deesa	18.0	18.5	17.5	-	18.0	19.0	-
Churu	-	-	-	-	-	-	-

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

CROP – STATE – STAGE

Delhi

		Deini	I	
Barley /Gram	Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot,and turnip	Early sown vegetable crops	Wheat	Mustard
Vecatative	, ,	Vegetative/ flowering/	Crown root initiation	Vegetative /
Vegetative	Sowing/ Transplanting	fruiting/ harvesting	/ tillering	flowering
		Haryana	<u> </u>	
Horticultural crop	Sugarcane	Gram /Lentil	Rabi oilseeds	Wheat
Vegetative	Vegetative	Vegetative	Vegetative/Flowerin	Tillering
Toria	Sunflower		8	
Harvesting	Sowing			
		Himachal Pradesh		
Wheat	Gram	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley
Crown root initiation/Tillering	Vegetative	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Vegetative
Onion	Rape seeds and		Radish, Turnip,	
Nursery preparation	Mustard Vegetative/ Flowering		Carrot Sowing	
rvursery preparation	v egetative/ 140weiling	Jammu & Kashmir	Sowing	1
Vagatable arong	Toria / Brown Sarson	Mustard	Gram	Wheat
Vegetable crops Vegetative	Seed development	Siliqua development	Pod development	Tillering
Vegetable crops (Tomato, Onion and knoll-kholl)	Pea / Lentil	Sinqua development	Tou development	Thering
Transplanting	Pod development			
Transplanting	Tod development	 Punjab		
Sugarcane	Rabi oilseeds	Gram/Lentil	Horticultural crop	Wheat
Vegetative	Vegetative/ Flowering	Vegetative/ Flowering	Vegetative	Tillering
Toria	Sunflower	vegetative/ i lowering	Vegetative	Tilleting
Harvesting	Sowing			
Trai vesting	Sowing	Rajasthan		
Mustard	Wheat	Cumin	Gram	Barley
Pod formation	Tillering	Vegetative	Pod formation	Tillering
Tou formation	Timering	Uttar Pradesh	1 od formation	Tillering
Wheat / Barley	Rabi pulses	Sugarcane	Mango	Winter Vegetables
Vegetative	Flowering /seed formation	Harvesting	Active growth / matured tree	Vegetative
Rabi Oilseeds(Rai	TOTHIAUUH		matured tree	
and Mustard)	Toria			
Vegetative / flowering	Harvesting			
		Uttarakhand		
Pea	Mango/Litchi	Wheat	Sugarcane	Potato
Harvestring	Active growth	Tillering	Maturity / harvesting	Tuber growth
		Assam		
Early sown Vegetables	Sugarcane	Wheat	Vegetables	Potato
Vegetative/Flowering/Fr	Harvesting	Tillering	Land preparation /	Earthingup/tuberozat
uiting	riai vesulig		sowing	ion
Pea and Lentil	Arhar	Rape seed and Mustard	Boro Rice	
Flowering / pod	Maturity/Harvesting	Flowering / pod formation	Early vegetative /	
formation			tillering	
	T	Arunachal Pradesh	T	
Mustard	Ginger	Potato	Wheat	Winter vegetables
Vegetative/Flowering	Vegetative	Vegetative / earthing up / tuber formation	Tillering	Vegetative / flowering / fruiting / harvesting
		Bihar		
Summer Vegetables	Rabi vegetables	Wheat	Rabi Maize	Boro Rice
Sowing	Vegetative/Flowering/Fr	Tillering	Vegetative /	Transplanting
Sowing	uiting	Tineting	Tasseling/Silking	Transplanting

Potato	Rabi Oil seeds (Toria, Sarson, Linseed)		Rabi Pulses (Lentil, Gram, Pea)				
Earthing up/Tuber formation	Flowering/Pod formation		Flowering/Pod formation				
Tormación	Torritation	•	.Jharkha	nd			
Rice		Rabi Maize		Wheat		Potato	
Harvesting	Vegetat	Vegetative / tasseling / silking		Tillering		Earthing up / tuber formation	
Rabi vegetables (Toma Cabbage, Cauliflowe Brinjal, Chilli)		planted	vegetables (Gram, m linseed, oat ku		s and oilseeds assoor, lentil, , mustard and asum)	Rabi pulses and oilseeds (Arhar)	
Vegetative / flowering / fr		Vegetati		ive Vegetativ		Pod formation	
Summer vegetables	1						
Sowing			CHIL				
Owanga	Mustaro	ı	Sikkim Rabi vegetables		Wheat		
Orange	Siliqua forma			g/Fruiting	Tillering		
	Siliqua foffii	111011	West Ber		Timering		
Boro rice	Sugarcan	e		neat	Rapeseed an Mustard	d Gram/ Lentil	
Land preparation / Transpalntation	Cane development/N	laturity	Tille	ering	Flowering /Po formation	od Flowering/ Pod formation	
	Potato Earthing up/tuber formation/Tuber growth						
			Chattisg	arh			
Gram / Mustard	Vegetables (To chilli, brin		Sugarcane		Wheat	Linseed, Safflower,	
Vegetative / branching	Vegetativ	cetative Car developmen			Tillering	Vegetative /Branching	
Sunflower	Early Sown Sunflower		Potato		New crops Sugarcane		
Field preparation / sowing	Germination / early vegetative / vegetative		Earthing up/tuber formation		Planting		
_			Gujara				
Mustard	Wheat	10		on irrigated tton	Castor	Sugarcane	
Flowering / pod formation	Early vegetative root inititation/l			ion / picking	Flowering / Po formation	od Maturity / Harvesting	
Kharif Cotton			Summe	er Rice on of rice			
boll formation			nur	sery			
	Vha-ie - 4	on	Maharasl	ntra		Rabi Jowar	
Sugarcane (Seasonal) (Madhya Mahrashtra, Marthwada and Vidarbha)	shtra, (Madnya Maharashtra, Marathwada & Vidarbha)		Tur (Madhya Maharashtra, Marathwada & Vidarbha)		Irrigated Cotton	(Madhya Maharashtra, Marathwada & Vidarbha)	
cane maturity / harvesting	Boll maturity /	picking	Pod maturity	y / harvesting	Boll maturity picking	formation	
Safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Wheat (Madhya Maharasht Marathwad Vidarbha	ra, a &	(Madhya M Marath	ram Iaharashtra, wada & rbha)	Rabi Maize (Madhya Maharashtra Marathwada Vidarbha)	(Madhya a, Maharashtra,	
Flowering / head formation	Tillering /Flow	, i		ood formation	Tasseling / Silking/cob inita	Flowering/Head	
Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Potato (Madhya Maharasht Marathwad Vidarbha	ra, a & ı)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)		Summer Groundnut	Summer Rice	
Sprouting / early vegetative	Earthing up / tuber Bulb formation/tuber growth grow			Land preparati	on Nursery preparation		

Madhya Pradesh										
Irrigated Wheat	Mustard	Gram	Masoor	Linseed						
Flowering / Grain formation	Siliqua formation	Pod formation	Seed formation	Flowering						
Wheat										
Grain formation										
		Orissa								
Vegetables	Dalua Rice	Mustard	Pulses	Early sown pulses						
Flowering / Fruiting / Harvesting	Nursery preparation, sowing /Transplanting (in some parts)	Vegetative / Flowerin	Vegetative / g flowering (Mung / Kulthi)	Pod maturity						
Sugarcane	Rabi Groundnut	New Sugarcane cro	р							
Maturity / harvesting	Flowering/Pod formation	Planting								
	Andhra Pradesh									
Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice						
Flowering	Vegetative	Pod formation (Prakasam)/Pod Development (Telangana, Rayalaseema)	Flowering	Transplanting						
		Karnataka								
Sugarcane (Ratoon crop)	Rabi Wheat	Rabi jowar, Sunflower and maize	Summer groundnut and Sunflower	Summer rice						
Vegetative	Grain development	Grain development/Grain maturity (Maize)	Early vegetative	Transplanting						
		Kerala								
Rubber	Mundakan rice									
Tapping	Grain maturity	T21 N J								
Rice (Navarai)	Millets	Tamil Nadu Cotton	Early & mid sugarcane	Oilseeds (Groundnut)						
Tillering	Seed formation/ Development	Vegetative	Harvesting	Vegetative						
Sunflower	Rice fallow pulses (Blach gram and Green gram)	Maize	Sugarcane (Early)							
Vegetative	Sowing	Sowing	Planting							
