



Summary of Agromet Advisory Services for different States of the country

Issued by

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(For the period 27th to 31st December, 2007)

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

Agromet Advisory

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

Punjab

- Weather remained mainly dry during the period.
- Mainly dry weather is likely over the State. Fog conditions are likely over some parts of the State.

Advisories

- As dry weather condition is likely to continue over the State, apply irrigation to sugarcane, *rabi* oilseeds, pulses, early sown wheat and Horticultural crops.
- Continue picking of cotton.
- Monitor the sugarcane crop for shoot borer infestation & if exceeds economic threshold level, for effective control spray endosulfan 50 EC @ 600 ml in 600 litres of water/acre.
- Late blight of potato has been observed in pockets. If required, spray indofil M-45 / anracol @ 500-700 g per acre in 250 -350 liter of water.

Haryana

- Weather remained mainly dry during the period.
- Mainly dry weather is likely over the State. Fog conditions are likely over some parts of the State.

Advisories

- As dry weather condition is likely to continue over the State, apply irrigation to sugarcane, *rabi* oilseeds, pulses, timely sown wheat and Horticultural crops.
- Continue picking of cotton.
- Monitor the sugarcane crop for shoot borer infestation & if exceeds economic threshold level, for effective control, spray 600 ml endosulfan 50 EC in 600 litres of water/acre.

Rajasthan

- Rain / thundershower occurred at isolated places in Jodhpur division and weather remained mainly dry in rest divisions of the State.
- Mainly dry weather is likely over the State. Fog conditions are likely over some parts of the State.

Advisories

- Complete land preparation and sowing of barley.
- Apply irrigation to early sown *rabi* crops as there was no rainfall during last week and mainly dry weather is likely for the next three days.
- Undertake intercultural operations in gram, mustard and tarmira to keep the field weed free.

- This is proper time for land preparation and planting of potato in and around Bharatpur. Select among Kufri Jyoti, Kufri Badshah, Kufri Sutlej and Kufri Anand. Maintain spacing of 45-60 cm between rows and 15-20 cm between plants for optimum plant population.
- Complete land preparation and sowing of wheat. Select among Raj 3077, HD 2329, HD 2236, WH147 and PBW 343. Adopt seed rate of 100 kg / ha. At the time of last ploughing, apply 50-60 kg N and 50 kg P₂O₅ per ha.

Uttar Pradesh

- Weather was mainly dry in all divisions of the State.
- Mainly dry weather is likely over the State. Fog conditions are likely over some parts of the State.

Advisories

- As there was no rainfall in the State during last week and mainly dry weather is likely over the State, apply irrigation to vegetables, pulses, rai, mustard and toria.
- Prepare the field and undertake sowing of onion.
- Spray the solution of dimethoate 1.5 ml / litre of water to control stemborer in turmeric.
- Harvest the matured winter vegetables and potato.

Himachal Pradesh

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

Advisories

- As mainly dry weather is likely over the State for next three days, apply irrigation to vegetables and toria and early sown wheat, barley, gram and rapeseed and mustard crops.
- Apply second dose of CAN @ 13 kg per Bigha or Urea @ 6.5 Kg per Bigha to cauliflower and cabbage.
- There is mild chance of attack of leaf spot disease in cabbage and cauliflower. If attack crosses economic threshold level, spray Dithane M – 45 to control the disease.
- Continue sowing of spinach, raddish and carrot in low and mid hills.
- Prepare land and complete sowing of wheat within this month. 90-100 kg seed / ha is required for timely sown crops.
- Prepare land and complete sowing of barley within this month. The crop should be sown by kera in lines 22 cm apart. 100 kg seeds per hectare are optimum for sowing. Additional 20 to 25 kg seed should be used under rainfed conditions.
- Prepare land and complete sowing of rapeseed and mustard crops within this month.
- Continue sowing of Autumn varieties of potato.
- Provide mulch to apple in the basins for soil moisture conservation and protection against winter injury. White-wash the trunks to protect against sun burn and cold injury.

Uttarakhand

- Mainly dry weather prevailed during the week. Sky remained mainly clear to generally cloudy.
- Mainly dry weather is likely over the State.

Advisories

- As there was no rainfall in the State during last week and mainly dry weather is likely over the State, apply irrigation to potato and wheat.
- Undertake intercultural operations in orchards to keep the field weed free.
- Undertake harvesting of matured crops of sugarcane, pea and toria.

Jammu & Kashmir

- Weather remained mainly dry over J&K divisions.
- Isolated rain/thundershowers are likely over Jammu & Kashmir.

Advisories

- Apply light irrigation to vegetables, pulses, wheat and oilseed crops as there was no significant rainfall in the State during last week and isolated rainfall is likely over the State.
- Continue transplanting of onion in Kashmir division.
- Continue land preparation and sowing of wheat in Jammu division. Adopt 125 kg / ha seeds for sowing. Apply 175, 110 and 42 kg / ha of Urea, DAP and MOP respectively. Out of this, apply entire quantity of DAP, MOP and 50% urea as basal dose at the time of sowing.
- Continue harvesting of matured toria in Jammu division.

Delhi

- Weather remained mainly dry.
- Mainly dry weather is likely over the State. Fog conditions are likely over the State.

Advisories

- As there was no rainfall in the State during last few weeks and mainly dry weather is likely over the State for the next three days, apply irrigation to vegetables, mustard, gram, barley and wheat.
- Prepare field and complete sowing of wheat within this month. It is recommended to sow late varieties like UP 2338, UP 2425, HD 2285, Raj 3077, Raj 3765, PBW-226, PBW-373 etc. Adopt seed rate of 125 – 150 kg / ha. Sow seeds in line keeping distance between lines of 15 – 20 cm. Treat the seeds with 2-3 g bavistin 50 WP / kg to avoid the spread of kadwa disease.
- Prepare land and sow Nanteez variety of carrot and Pusa Himani variety of raddish.
- Transplant onion seedlings. Prepare land for transplanting of brinjal and tomato.
- Apply half of the remaining dose of nitrogenous fertilizer at 21 – 25 days after sowing of wheat.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

- Dry weather prevailed over the State during this period.
- Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall during last week and dry weather is likely to prevail for the next three days, apply irrigation to plantation crops viz., coconut, arecanut, rubber and banana.
- Attack of rhinoceros beetle, red palm weevil, mite and leaf rot is reported in coconut. Fill the leaf axils with Sevidol 8G @ 25 gm mixed with 200 gm fine sand to control rhinoceros beetle. In the leaf rot affected plants, remove the rotten parts from the spear and the two adjacent leaves and pour 300 ml fungicidal solution at the base of the spear which can be prepared by mixing Hexaconazole 5 EC @ 2 ml or Mancozeb @ 3 gm in 300 ml of water. Prophylactic spraying with 2% neem oil + garlic emulsion may be done in the crown and bunches, 2nd to 7th bunches from top avoiding unpollinated inflorescence to control mite. Use pheromone trap to monitor and control red palm weevil.
- Attack of pseudo stem weevil, banana rhizome weevil and bunchy top disease is reported in banana. Adopt strict field sanitation. If the attack is severe spray Quinalphos @ 0.05%. Spraying / drenching may be done on the leaf axils, rhizome, surrounding soil and all around the entire pseudo stem. Apply 12.5 gm. Phorate 10G or 10 gm. Carbofuran 3G per plant in leaf axil or 25 gm Phorate or 20 gm. Carbofuran per pit in soil, 70 days and again 165 days after planting to control bunchy top disease.

- Continue nursery sowing, intercultural operations and application of fertilizers.
- Harvest the matured *mundakan* rice crops on bright sunny days. Nursery raising and land preparation may be started for *puncha* rice crop in areas where *mundakan* crop is harvested. Sowing of sesamum, pulses and vegetable crops may be undertaken if *puncha* rice nursery is not raised.

Tamilnadu

- Rainfall occurred at one or two places over the State on 24th December and dry weather prevailed on 25th and 26th December.
- Mainly dry weather is likely over the State.

Advisories

- As there was excess rainfall in most of the districts except in Kanyakumari and Pondicherry during last week, postpone irrigation to sugarcane and early sown maize, groundnut, black gram, green gram and pulses. Apply irrigation in the above districts as there was no significant rainfall during last week.
- Monitor maize for stem borer and aphids and if the pest population crosses ETL, spray Carbaryl 50WP @ 400 g / acre to control the pest.
- Continue sowing of rainfed groundnut, black gram, green gram and red gram in coastal Tamilnadu. Use 112 kg pods / ha for groundnut and 20 kg / ha for pulse crops.
- Continue sowing of rainfed millet crops like jowar, bajra and samai. Undertake seed treatment with *Azospirillum* before sowing.
- Continue picking of matured cotton bolls on bright sunny days. Picking may be done at early morning hours to maintain quality of kapas.
- Undertake land preparation and sowing of coriander in the main field in southern region. Adopt 5 kg seeds / ac in the spacing of 20 x 15 cm under irrigated condition. If rainfed crop, seed rate @ 10 kg/ac has to be broadcasted evenly. Apply Urea @ 9 kg/ac / super @ 100 kg/ac and potash @ 13 kg/ac as basal for both rainfed and irrigated condition.
- Undertake intercultural operations to keep the field weed free.

Karnataka

- Dry weather prevailed over the State on all days.
- Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall during last week in most of the districts except in Chamrajnagar and Kolar in South Interior Karnataka and dry weather is likely to prevail for the next three days, apply irrigation to sugarcane, *rabi* jowar, maize, cotton and sunflower. Postpone irrigation in the above districts as there was excess rainfall during last week.
- Undertake intercultural operations in sugarcane to keep the field weed free and propping to prevent the crop from lodging.
- Monitor *rabi* sunflower for powdery mildew and undertake spraying of Wettable Sulphur @ 3 g / litre of water, if required.

Andhra Pradesh

- Northeast monsoon was vigorous over Rayalaseema on 20th December. Rain occurred at a few places over Rayalaseema on 21st December and isolated rain occurred over Coastal Andhra Pradesh on 20th December. Weather remained dry over the State during rest of the week.
- Mainly dry weather is likely over the State.

Advisories

- As dry weather is likely over the State for the next three days, apply irrigation to red gram and chillies.

- Continue harvesting of rice and picking of cotton.
- Monitor red gram for *Helicoverpa* and if the pest population crosses ETL, spray NSKE @ 5% to control eggs and early instar larvae. To control adults, install bird perches @ 10-15 nos / acre. Arrange pheromone traps @ 4 per acre.
- The incidence of thrips, dieback, leaf spot, blight and powdery mildew is noticed in chillies. To control thrips, spray Fipronil @ 2.0 ml per litre of water. To control dieback, spray Captan @ 1.5 g per litre of water. To control leaf spot, spray Mancozeb @ 2.5 g or Carbendazim @ 1 g per litre of water. To control blight, spray Plantamycin or Poustamycin @ 0.2g or Streptomycin @ 0.1g + Copper oxychloride @ 3g per litre of water 2-3 times at 15 days interval. To control powdery mildew, spray Wettable Sulphur @ 3.0 g per litre of water.
- The deficiency of Zinc and Boron is noticed in chillies. To correct zinc deficiency, spray ZnSO₄ @ 2g per litre of water. To correct boron deficiency, spray Borax @ 1.5 g per litre of water.

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

Assam

- Dry weather prevailed over the State during the period. Partly cloudy sky on 26th December and mainly clear sky during the rest period.
- Mainly dry weather is likely over the State.

Advisories

- As there was no rain in the State during last week and mainly dry weather is likely over the State for next three days, apply irrigation to arhar, winter vegetables, other *rabi* crops and wheat.
- Continue harvesting of matured crops of sugarcane. Red rot infested sugarcane may be harvested early and the field should be newly planted. Ratooning of infested plant should be discarded.
- Prepare land for winter vegetables such as spinach, reddish & coriander etc. and seeds of hybrid varieties of tomato, brinjal, capsicum, cauliflower and cabbage etc. may be collected from reputed sources and should be sown in the seed bed for raising seedling for planting in the main fields.
- Incidence of aphids and saw fly was noticed in mustard and rapeseed in few localities.
- Monitor mustard and rapeseed for aphids and saw fly and if the population exceeds economic threshold level, apply rogor or Malathion @ 2 ml / litre of water to control the disease.
- Low lying typical areas on common irrigation are to be selected for *boro* rice. Flat seedbed of size 125 cm breadth and 10 m in length with 30 cm gap between two seedbeds should be prepared and six such seedbeds should be prepared for transplanting one bigha of land. Pre-germinated seeds of varieties such as Masuri, Joya, IR-36, IR-50 and Krishna Hamsa etc. are to be sown @ 650-1000 g per bed. Seed requirement for one bigha is roughly 6 Kg. For irrigated areas fertilizer should be applied @ 18 Kg Urea, 27 Kg SSP & 6 Kg MOP and for non-irrigated low lying area Urea 12 Kg, SSP 18 Kg & MOP 4 Kg may be applied.
- Start transplanting of *boro* rice seedlings in the main field.

Arunachal Pradesh

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

Advisories

- As there was no rainfall in the State during last week and mainly dry weather is likely for the next three days, apply irrigation to vegetables, wheat, potato, pea, *rabi* maize and mustard.

- Harvest the matured crops of ginger, millet, wet seeded rice and *Jhum* rice.
- Apply first top dressing (33 kg Urea/ha) in potato and do earthing up.
- Undertake weeding and hoeing in pea, wheat, mustard and *rabi* maize to keep the field weed free.

Bihar

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

Advisories

- As there was no significant rainfall in most of the districts during last few weeks and mainly dry weather is likely over the State, apply irrigation to arhar, wheat, gram, fodder maize and sugarcane.
- Complete sowing of raddish, spinach and carrot.
- Continue field preparation and sowing of late sown wheat. Select varieties like HD 2285, HD 2307, HD 2329, HD 2643, HP 1744, HUW 234, HUW 2045, PBW 373, PBW 524 and Raj 3765. Use seed rate @ 150 Kg/ha.
- Heavy infestation of lucerne caterpillar is reported in early sown lentil. Spray Nuvan @ 500ml/ha or Monocrotophos @ 1 litre/ha to control the pest.

Jharkhand

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

Advisories

- Apply irrigation to vegetables and gram as there was no significant rainfall during last few weeks and mainly dry weather is likely over the State for the next three days.
- To protect potato crop from aphids, spray Mancozeb (2.5 gm/litre water) or Ridomil (1.5 gm/litre water).
- Continue field preparation and complete sowing of wheat. For late sowing, use recommended varieties like HD – 2402, HUW – 234, HP1744, HUW2045, HD 2643, PBW – 373, NW-1014, K9107 etc. and K 8962, GW 173, DL 7882 etc. in rainfed area.

Sikkim

- During the week, weather was mainly dry over East Sikkim.
- Mainly dry weather is likely over the State.

Advisories

- As there was no rainfall during last week and mainly dry weather is likely over the State for the next three days, apply irrigation to *rabi* vegetable crops like cabbage, cauliflower, carrot and beet root and early sown wheat and mustard.
- Continue harvesting of orange.
- Undertake intercultural operations and application of fertilizers in mustard, wheat, *rabi* vegetable crops like cabbage, cauliflower, carrot and beet root. Keep mustard fields free from Satyanshi weed and wheat fields free from Hirankhuri weed.
- Undertake nursery sowing of large cardamom.

West Bengal

- Weather was mainly dry during the period.
- Mainly dry weather is likely to prevail over the State.

Advisories

- As there was no rainfall in the State during last week and mainly dry weather is likely for next three days, apply irrigation to sugarcane and arhar and *rabi* crops like mustard, rapeseed, wheat, gram, lentil, potato, *rabi* arhar and sunflower.
- Apply half of remaining dose of N at 21 – 25 days after sowing of wheat.
- Keep vigil against late blight disease of potato. Uproot and burn the affected plants. Apply water soluble mankozeb @ 2.5 g / litre of water in the remaining healthy plants.
- Keep vigil against red rot disease of sugarcane. Uproot and burn the diseased plants to prevent further spread of the disease.
- Low lying typical areas on common irrigation are to be selected for *boro* rice. Flat seedbed of size 125 cm breadth and 10m in length with 30cm gap between two seedbeds should be prepared and six such seedbeds should be prepared for transplanting one bigha of land. Pre-germinated seeds are to be sown @ 650-1000 g per bed. Seed requirement for one bigha is roughly 6 Kg. Fertilizer should be applied @ 18 Kg Urea, 27 Kg SSP & 6 Kg MOP per bigha.

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

Gujarat

- Mainly dry weather is likely to prevail over the State.

Advisories

- As there was no significant rain during last few weeks over the State and mainly dry weather is likely to prevail over the State for next three days, apply irrigation to *kharif* cotton, castor, mustard and early sown wheat.
- Stop irrigation 10 – 15 days before harvesting of sugarcane. Start harvesting the crop when brix reading of sugarcane will be 19 or more.
- In some places cotton crop is infested with mealy bug. Monitor the crop for mealy bug and if damage exceeds ETL, to control the pest spray Methyl dimeton 25 EC @ 10 ml or Phosphamidon 85 EC @ 5 ml or Dimethoate 30 EC @ 10 ml in 10 liters of water.
- Prepare land for late sowing of irrigated wheat by one harrowing and ploughing with application of FYM @ 10 – 15 MT before ploughing. Apply 60 kg N and 60 kg P₂O₅ as basal dose at the time of sowing. Select varieties from Lok-1 and GW-173 for late sown irrigated crops. Adopt seed rate of 150 kg / ha.

Chhattisgarh

- Weather was mainly dry in all divisions of the State.
- Mainly dry weather is likely to prevail over the State.

Advisories

- As there was no rainfall during last week in the State and mainly dry weather is likely over the State for next three days, apply irrigation to sugarcane, toria, vegetables, rapeseed and mustard and early sown wheat, potato and other *rabi* crops.
- Prepare land for sowing of wheat. Treat the seeds with thirum @ 3 g or bavistin @ 2 g / kg of seeds. Select varieties from Kanchan, Sujata, Amar, GW-273 and Bilasa for sowing.
- Prepare land for sowing of other *rabi* crops. Treat the seeds with thirum @ 3 g or bavistin @ 2 g / kg of seeds. Seeds of pulse crops may be treated with rizobium culture.
- Prepare land for plating of potato. Select varieties from kufri badsha, Kufri Jyoti, Kufri Bahar etc. Before planting treat the seeds by dipping them for 30 minutes in solution of thyrum @ 3 g or bavistin @ 2 g / litre of water.

Maharashtra

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

Advisories

- As there was no rain in the State during last week & mainly dry weather is likely over the State during next three days, apply irrigation to sugarcane (Pre-seasonal), sugarcane (*suru*), *kharif tur*, *rabi jowar*, safflower, potato, gram, onion, wheat and maize.
- Apply 50 kg Nitrogen/ha to black soil, 40 kg/ha to medium & 25 kg Nitrogen/ha to low fertile soil after 25 to 30 days from sowing of *rabi jowar*.
- Second dose of 50 kg Nitrogen / ha may be applied to potato as top dressing after weeding.
- Second dose of 50 kg Nitrogen / ha may be applied after 30 days from planting of onion & irrigation may be given immediately.
- Apply second dose of 60 kg Nitrogen / ha at 30 days after sowing of wheat.
- Mild incidence of white woolly aphids in Kolhapur and Pune division in Sugarcane (pre-seasonal) & sugarcane (*Suru*), pod borer in Amravati division in *kharif tur*, shoot fly in Latur, Aurangabad and Nasik division in *rabi jowar* and aphids in Kolhapur division in safflower is reported.
- Monitor the Sugarcane (pre-seasonal) & sugarcane (*Suru*) for White Woolly Aphids & if exceeds economic threshold level, for effective control spray 500 ml Endosulphan 35%+ Metasystox 1000 ml & 500 ml Sticker or 500 gm detergent powder / ha in 500 liters of water. For the biological control of White Woolly Aphids, release 25000 larvae of *Chrysoperla carnea* or *Dipha aphidivora* / ha as predator after 15 days from the above dose.
- Monitor the crop for pod borer in tur & if exceeds economic threshold level, first spray 5% neem extract or 20 – 25 ml fenvalerate in 100 litres of water.
- Monitor the crop for shoot fly in *rabi jowar* & if exceeds economic threshold level, spray 5% neem seed extract or 35% endosulphan @ 14 ml or 30% dimethoate @ 10 ml + 10 ml sticker per 10 liter of water.
- For the biological control of aphids in safflower, release 10000-15000 larvae of *Chrysoperla carnea* or apply 5% neem extract.
- For the protection of blossom and to control the infestation of downy mildew / hoppers in mango, apply mixture of 300 mesh sulphur and 1.5% quinolphos powder in the ratio of 1:1 or spray 50% carbaryl powder @ 20 g plus 80% water soluble sulphur @ 25 gm. 2-3 sprayings may be done at 15 days interval.

Madhya Pradesh

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

Advisories

- As dry weather prevailed during last week in the State and mainly dry weather is likely over the State for next three days, apply irrigation to sugarcane, linseed, lentil, gram, mustard and wheat.
- Undertake inter-cultural operation in sugarcane and other *rabi* crops to keep the field weed free.

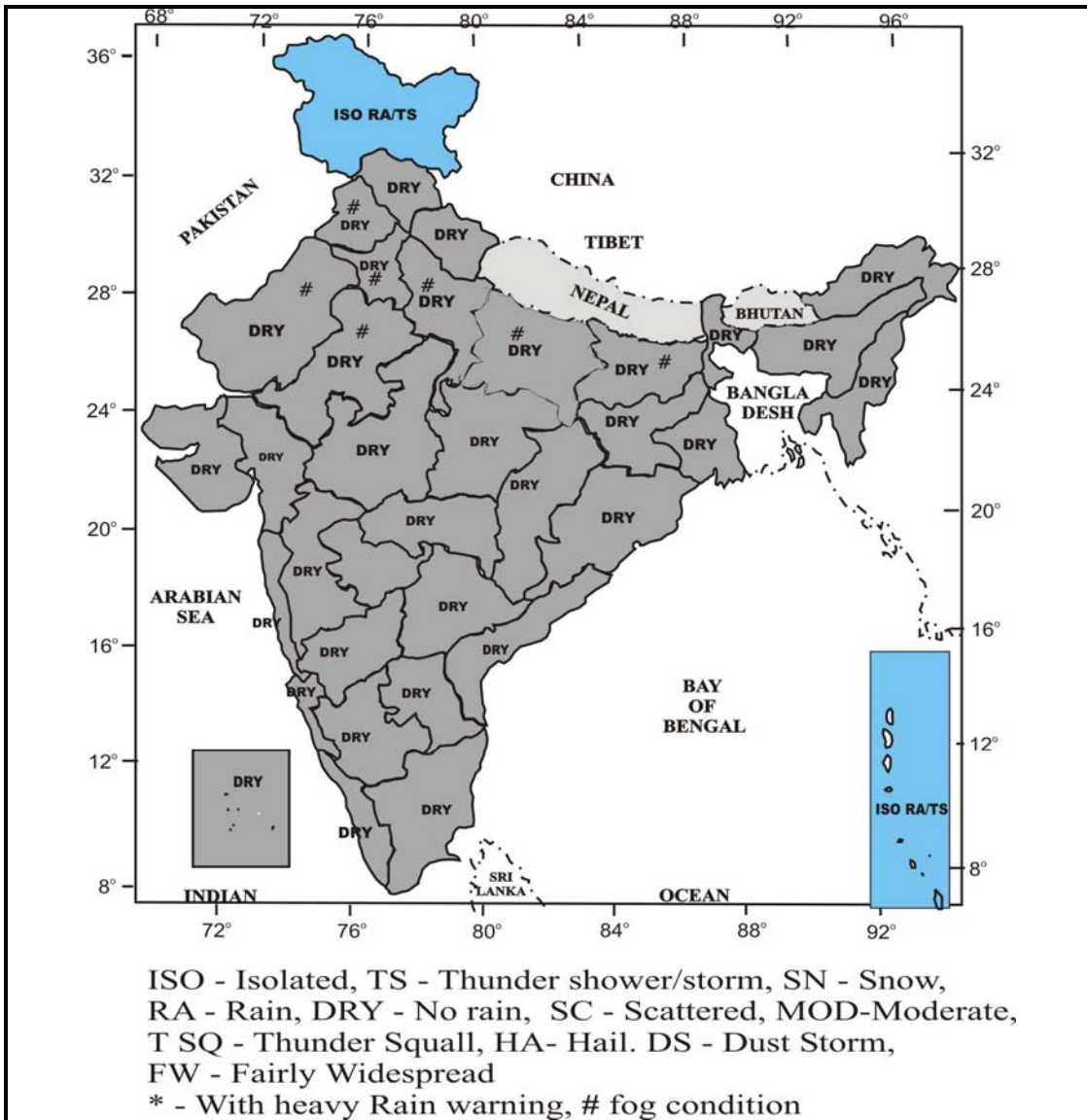
Orissa

- Weather has been mainly dry over the State during the above period.
- Mainly dry weather is likely to prevail over the State.

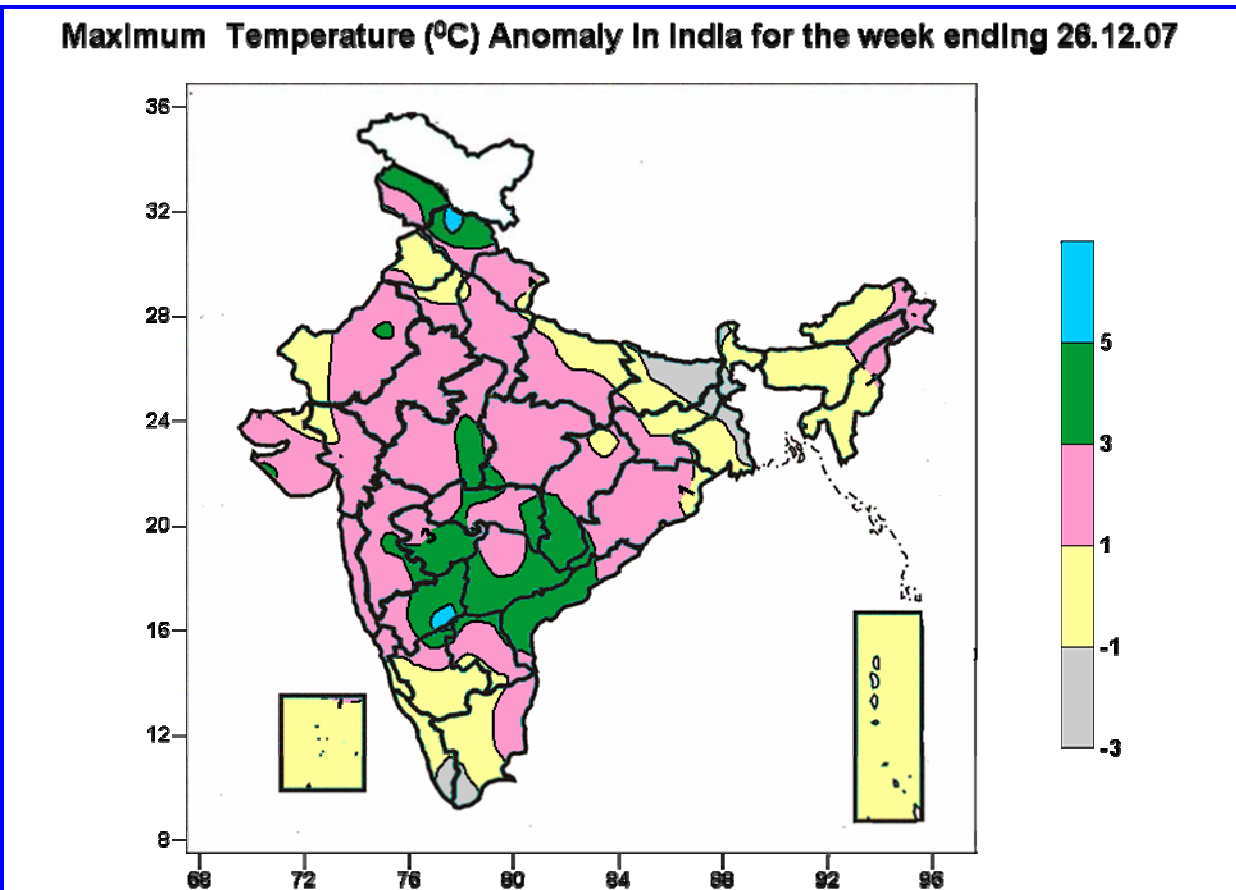
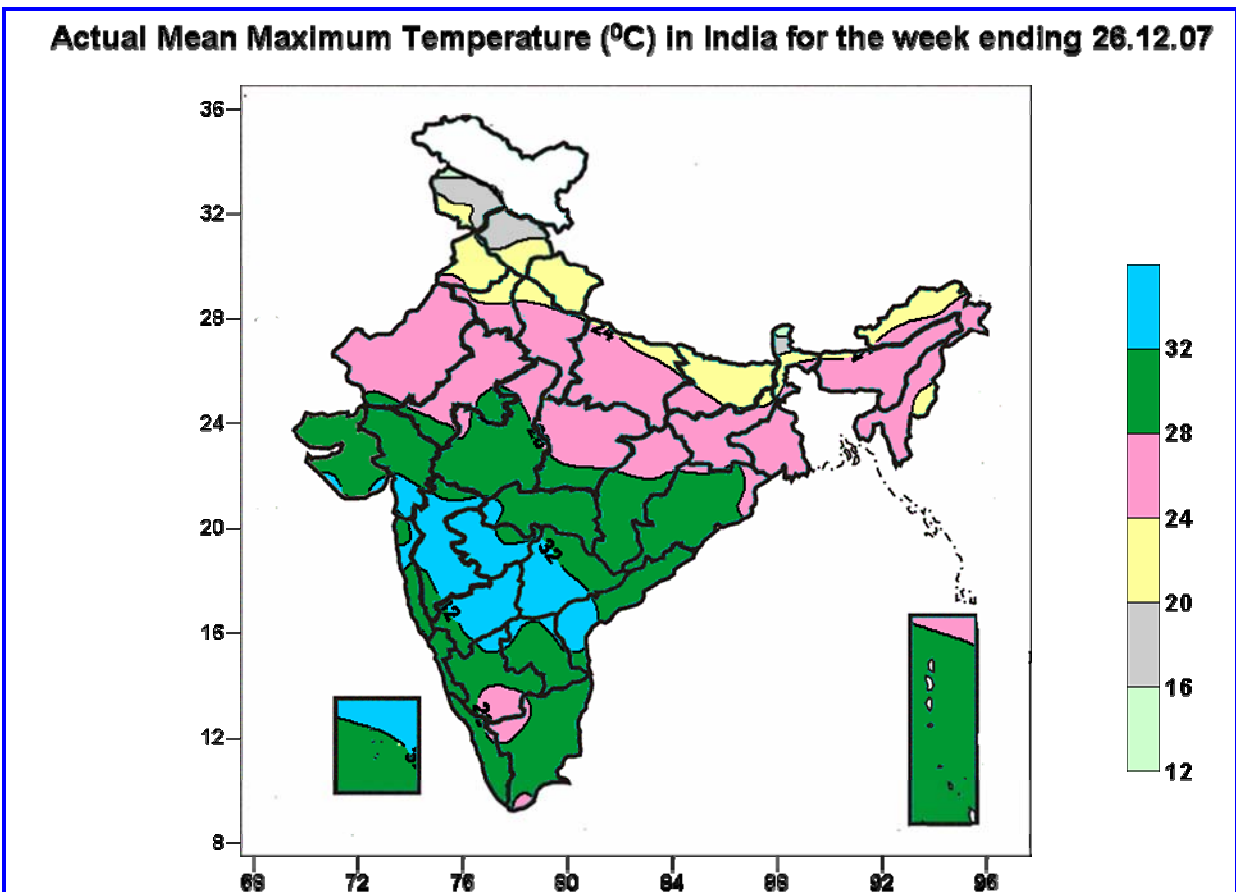
Advisories

- As there was no significant rainfall over the State during last few weeks and mainly dry weather is likely to prevail over the State for the next three days, apply irrigation to vegetables, sugarcane, *rabi* oilseed and pulse crops.
- Complete field preparation and sowing of groundnut. Select groundnut variety like A.K.1224 or Smruti and maintain a spacing of 30x10 cm.
- This is the proper time for nursery sowing of *Dalua* rice. Use varieties like Khandagiri, Parijat, and Lalat etc.

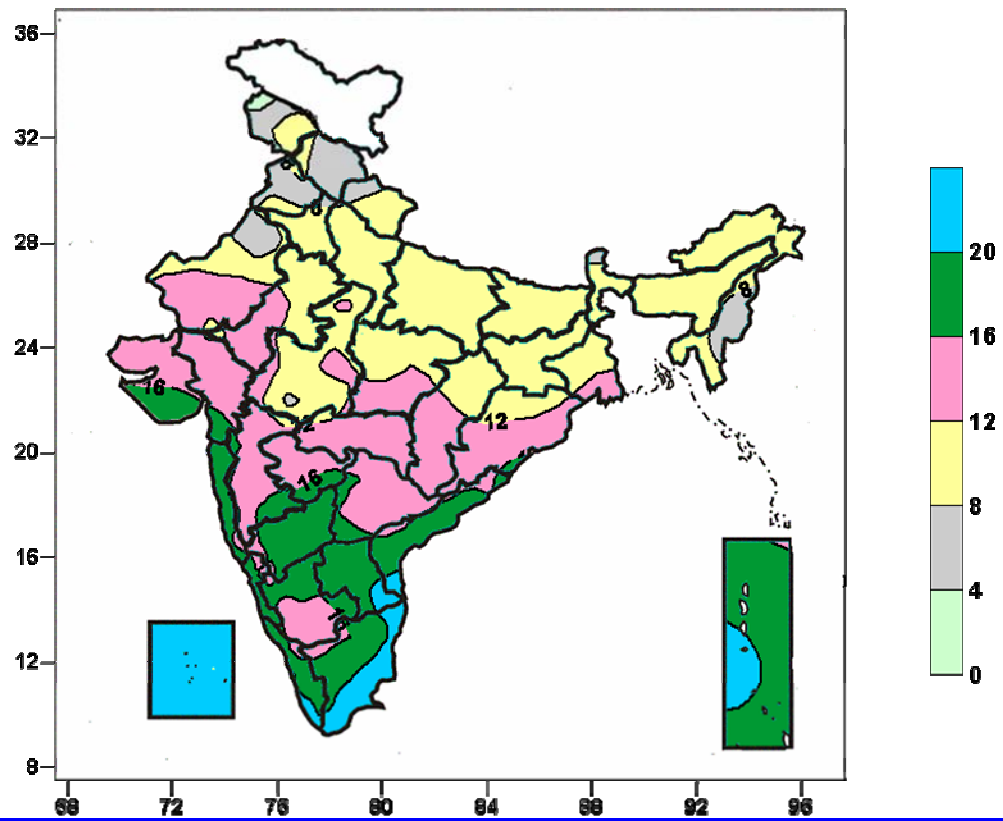
Forecast Valid upto 30th December 07



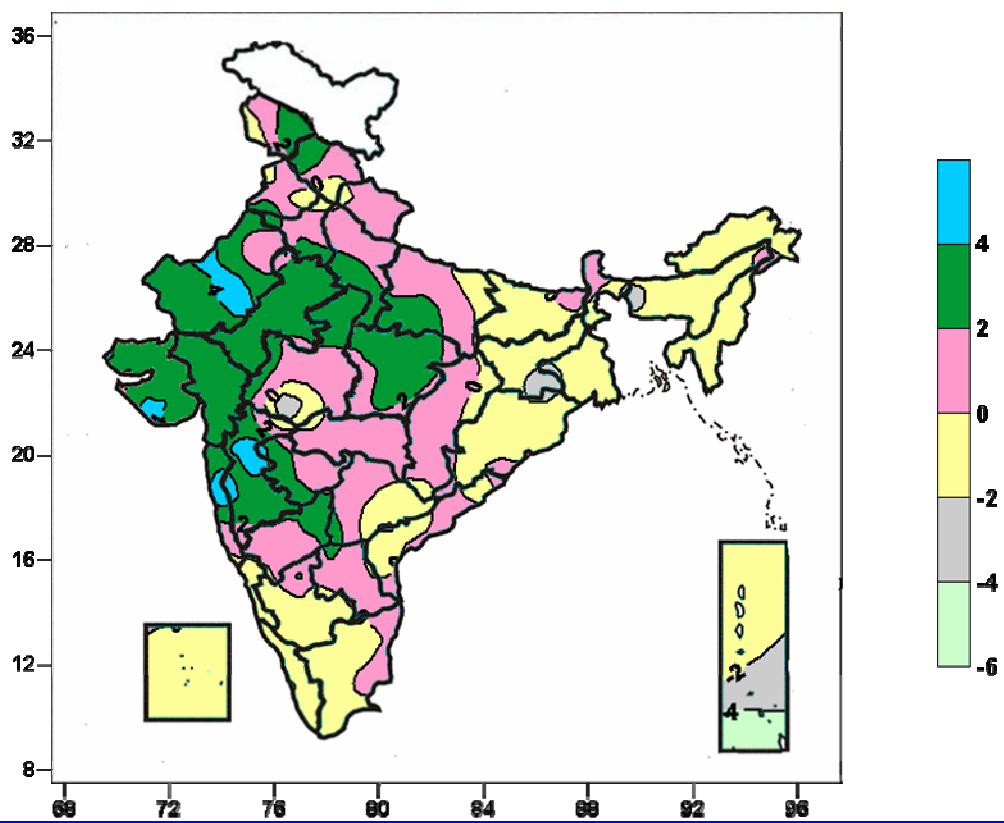
Contour maps for the week ending 26th December, 2007



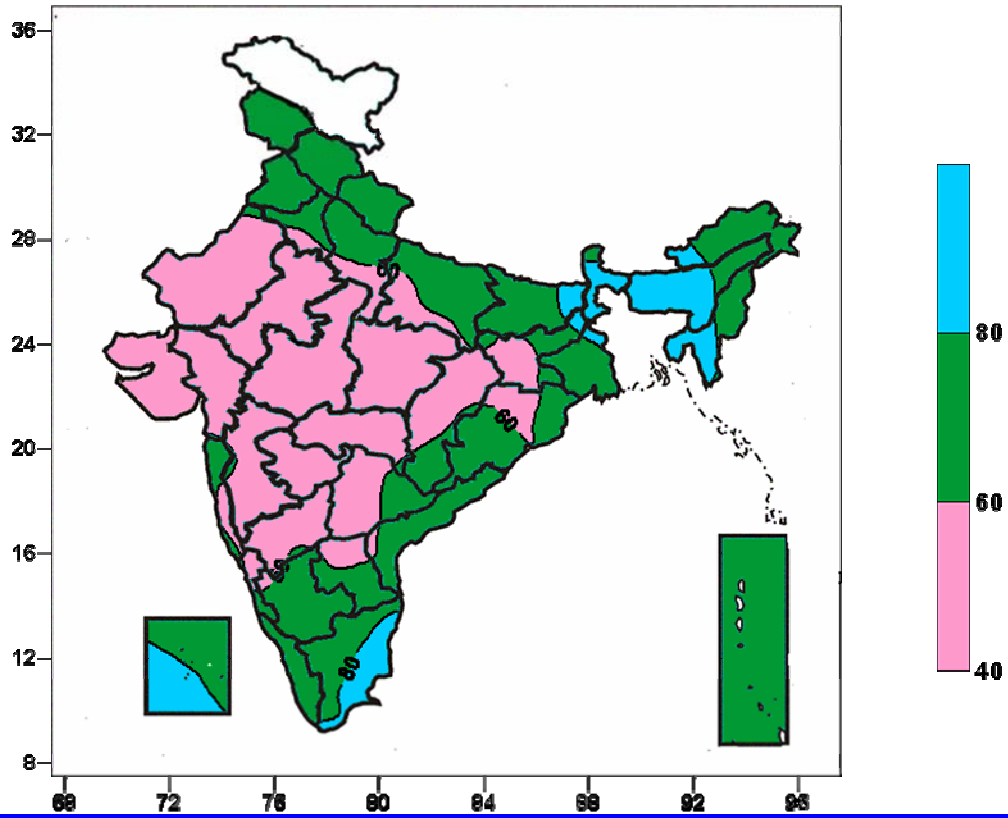
Actual Mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 26.12.07



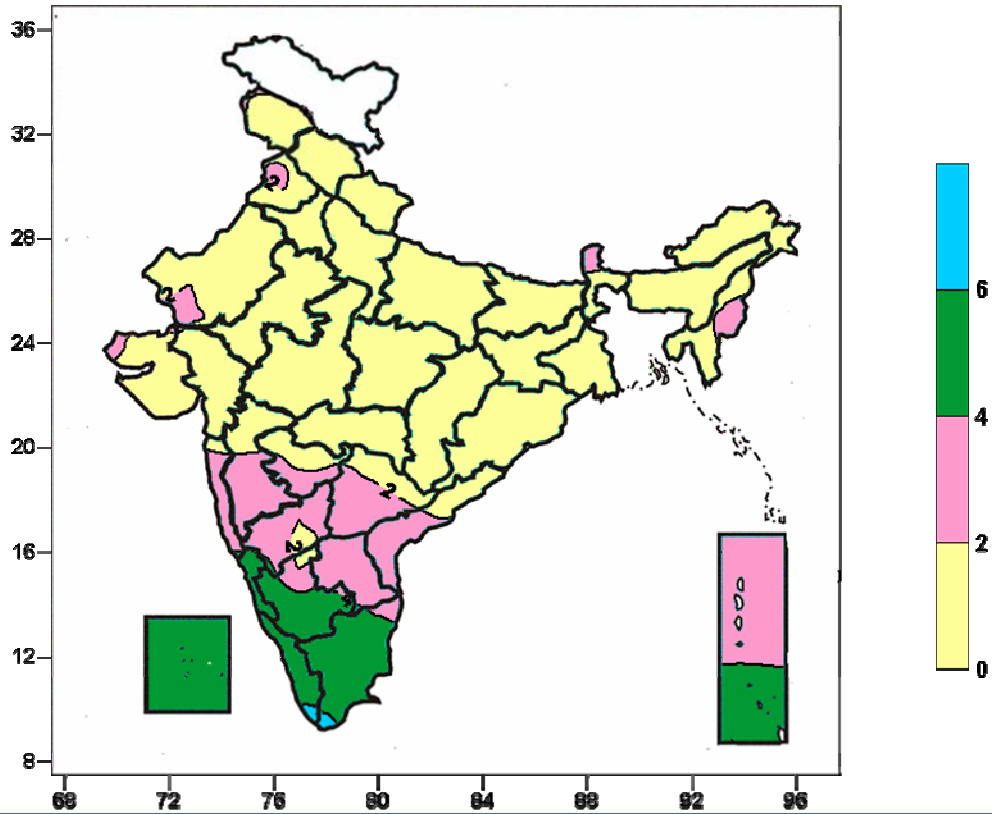
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 26.12.07

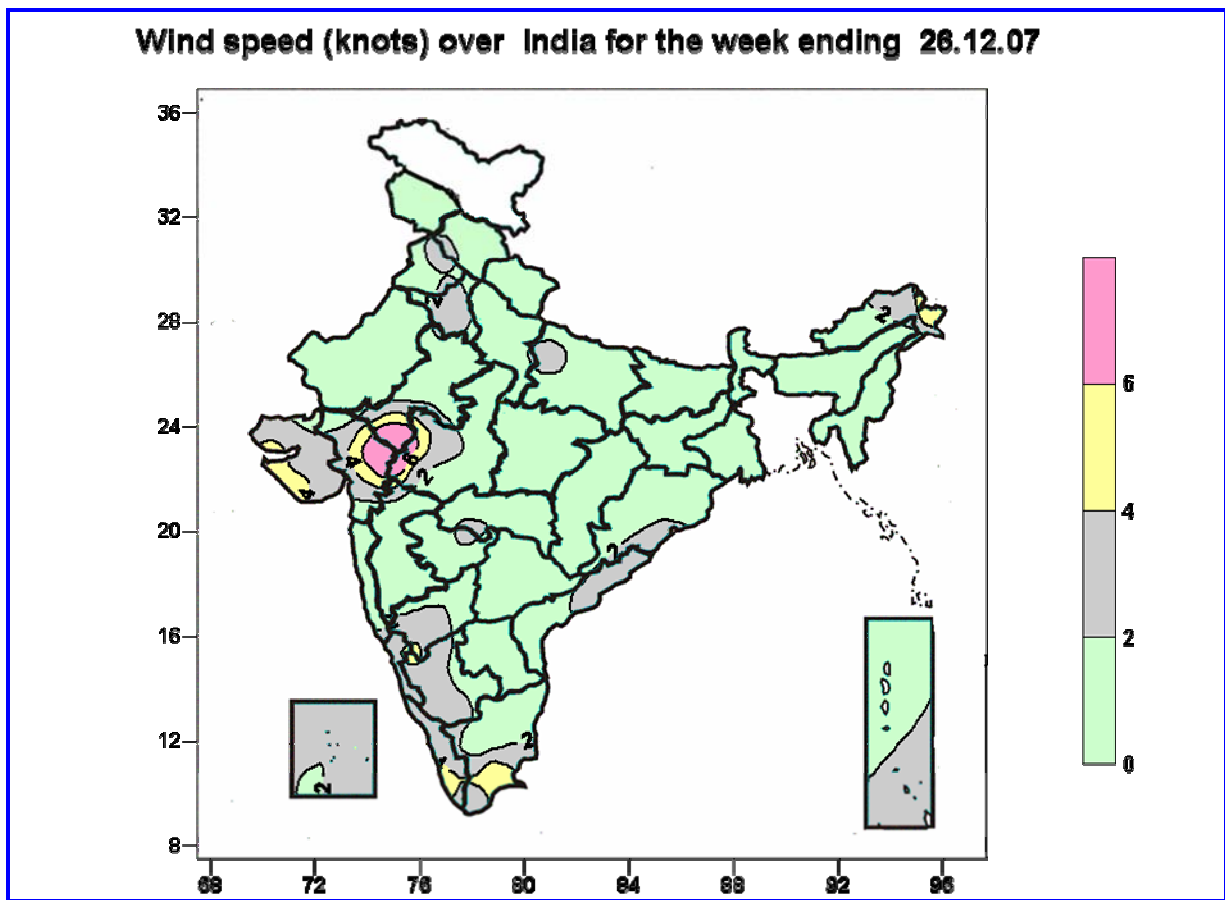


Relative Humidity (%) over India for the week ending 26.12.07



Cloud amount (okta) over India for the week ending 26.12.07





Desert Locust Forecasting

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

CROP – STATE – STAGE

Delhi				
Vegetables	Mustard	Wheat	Early sown wheat	Berseem
Vegetative	Vegetative / flowering	Sowing	Early vegetative / crown root initiation	Vegetative
Gram	Barley			
Vegetative	Vegetative			
Haryana				
Sugarcane / Autumn sugarcane	Horticultural crops	Cotton	Wheat	Rabi Pulses
Vegetative	Vegetative	Picking	Germination	Vegetative
Rabi oilseeds	Toria			
Vegetative	Flowering / fruiting			
Himachal Pradesh				
Vegetables (Ladies finger/ Cabbage, Cauliflower)	Potato	Apple	Toria	Wheat
Vegetative/ head formation Ladies finger -- Flowering/Fruiting	Sowing	New planting	Vegetative	Land preparation & sowing

Barley	Gram	Oilseeds	Early sown rapeseed and mustard	Early sown Wheat
Land preparation & sowing Early sown crops – germination / early vegetative	germination / early vegetative	Land preparation & sowing (Torla – vegetative)	Germination / early vegetative	Germination / early vegetative / crown root initiation

Jammu & Kashmir

Vegetable crops	Rice	Pulses	Brown Sarsun, Mustard	Toria
Early vegetative / vegetative	Harvesting- Jammu div.	Early vegetative / vegetative	Flowering	Harvesting (Jammu div.)
Wheat	Barley, Oat			
Crown root initiation / early vegetative	Land preparation for sowing (Jammu div.)			

Punjab

Sugarcane	Horticultural crop	Cabbage / garlic / pea / potato	Cotton	Rabi pulses
Vegetative	Vegetative	Sowing	Picking	Vegetative
Autumn sugarcane	Wheat	Rabi Oilseeds	Irrigated toria	
Early vegetative	Germination	Vegetative	Flowering / fruiting	

Rajasthan

Wheat & barley	Early sown wheat & barley	Rabi crops (Mustard, Barley, taramira, gram)	Early sown rabi crops	Potato
Sowing	Seedling	Sowing	Early vegetative / vegetative	Planting
Early sown potato				
Sprouting / early vegetative				

Uttar Pradesh

Sugarcane	Vegetables	Rice	Rai, mustard	Toria
Cane maturity	Flowering / fruiting / maturity	Late Harvesting	Vegetative	Pod information
Mango	Wheat	Rabi pulses		
Vegetative	Seedling / early vegetative	Flowering		

Uttarakhand

Mango/Litchi	Pea / Toria	Sugarcane	Potato	Wheat
Vegetative	Maturity	Maturity	Tuber growth	Crown root initiation / tillering

Assam

Sugarcane	Arhar	Horticultural plants	Boro rice	Winter vegetables
Harvesting	Pod formation / maturity	Planting	Nursery sowing	Land preparation & sowing / transplanting Early sown – early vegetative / vegetative
Mustard, rapeseed, pea lentil etc.	Potato	Wheat		
Vegetative / flowering / pod formation	Vegetative / tuber formation	Crown root initiation / tillering		

Arunachal Pradesh

WRC Rice	Ginger	Millet	Jhum Paddy	Potato
Harvesting	Harvesting	Harvesting	Harvesting	vegetative
Rabi Vegetables	Wheat / Mustard	Pea / rabi maize		
Vegetative / harvesting	Vegetative	Vegetative		

Bihar

Vegetables & fruit crops	Maize fodder	Arhar	Early sown Rabi pulses	Wheat
vegetative	vegetative	Vegetative	Vegetative	Seedling / early vegetative
Sugarcane	Rabi oilseeds (rai, linseed)	Gram		
Vegetative	Vegetative	sowing		

Jharkhand

Pea, gram, potato	Litchi / Mango	Vegetables (Tomato, Brinjal, Bhendi)	Wheat
Early vegetative / vegetative	Vegetative (tree)	Vegetative	Seedling / vegetative

Sikkim

Orange	Vegetables (Cauliflower, Cabbage, Carot, Beat, tomato)	Large Cardamom	Wheat	Mustard
Harvesting	Late vegetative	Nursery sowing	Crown root initiation	Late vegetative

West Bengal

Sugarcane	Arhar	Mustard / Rapeseed / gram / lentil	Potato	Sunflower
Cane development	Pod formation / pod maturity (Rabi arhar-early vegetative / vegetative)	Vegetative / flowering	Vegetative / tuber formation	Germination / early vegetative / vegetative
Early sown Sunflower	Boro rice	Wheat		
Germination / early vegetative	Nursery sowing	Crown root initiation / tillering		

Chattisgarh

Sugarcane	Rapeseed, mustard	Toria	Tomato, Brinjal, Chilli	Wheat
Vegetative (autumn – Sprouting / early vegetative)	Branching	vegetative / flowering	Vegetative / flowering	Land preparation & sowing
Rabi crops	Early sown rabi crops	Potato	Early sown potato	Early sown Wheat
Land preparation & sowing	Germination / early vegetative / vegetative	Land preparation & planting	Sprouting / early vegetative	germination / crown root initiation

Gujarat

Sugarcane	Kharif Cotton	Castor	Mustard	Wheat
Cane maturity/harvesting	Boll formation/ boll maturity / picking	Spike formation / pod formation	Vegetative / flowering	Land preparation & late sowing
Early sown wheat				
Germination / early vegetative / crown root initiation / tillering				

Maharashtra

Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)	Rabi safflower (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif Tur (Madhya Maharashtra, Marathwada & Vidarbha)
Elongation / cane development	Active growth / elongation	Flowering / head formation	Vegetative / ear head emergence (Pune & Nasik Div.)	Pod formation / grain filling / grain maturity
Kharif Cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Irrigated cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi onion (Madhya Maharashtra, Marathwada)	Early sown onion
Boll maturity / picking	Boll maturity / picking	Vegetative	Early vegetative	Early vegetative
Wheat (North Konkan, Madhya Maharashtra, Marathwada & Vidarbha)	Maize (Konkan, Madhya Maharashtra, Marathwada & Vidarbha)	Gram (Madhya Maharashtra, Marathwada & Vidarbha)	Mango	
Germination / early vegetative / crown root initiation / early tillering	Vegetative	Branching / flowering	Flowering	

Madhya Pradesh

Sugarcane	Rabi crops (linseed, lentil, gram, mustard)	Wheat		
Grand growth	Vegetative	Early vegetative / vegetative		

Orissa

Kharif vegetables		Dalua rice	Arhar	Mung and urd
Vegetative / fruiting		Nursery sowing	Pod formation / maturity	Vegetative / flowering
Sugarcane	Rabi oilseeds	Early sown oilseeds		
Cane formation / maturity	Sowing	Early vegetative		

Andhra Pradesh

Kharif Rice	Kharif Cotton	Rabi red gram / chillies		
Harvesting	Picking	Vegetative		

Karnataka

Sugarcane (Ratoon crop)	Annual sugarcane	Rabi Jowar/Maize/Cotton/Sunflower		
Grand growth	Sprouting / early vegetative / tillering	Flowering		

Kerala

Rubber	Mundakkan Rice	Pepper		
Tapping	Harvesting	harvesting		

Tamil Nadu

Rice (Samba)	Sugarcane (Early, Mid season)	Special season sugarcane	Groundnut/Black gram/Green gram/Red gram	Early sown Groundnut/Black gram/Green gram/Red gram
Vegetative	Cane development / maturity	Grand growth	Sowing	Early vegetative / vegetative
Jowar/Bajra/Samai	Early sown jowar / bajra / samai	Cotton	Maize	Coriander
Sowing	Early vegetative / vegetative	Picking	Grain formation	Sowing
