



Summary of Agromet Advisory Services for different States of the country

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(For the period 13th to 17th 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

- Rainfall occurred at most places on 11th and at a few places on 12th December.
- Mainly dry weather likely to prevail over the State. Fall in minimum temperatures by 2-3⁰C over the State. Fog condition is also likely over some parts of the State.

Advisories

- As there was rainfall in most of the districts during last week and mainly dry weather is likely over the State, apply light 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 Endosulfan 50 EC 600 ml in 600 liter of water/acre.
- Preparation of field and sowing of late sown wheat can be completed.
- Late blight of potato has been observed in pocket in Jalandhar District. To control it spray with Indofil M-45/Anracol @500-700 gm per acre in 250 -350 litre of water.

Haryana

- Rainfall occurred at a few places on 11th December and at isolated places during rest days of the period.
- Mainly dry weather is likely over the State. Fall in minimum temperatures by 2-3⁰C and fog condition is also likely over some parts of the state.

Advisories

- As there was no significant rainfall in most of the districts during last week and mainly dry weather is likely 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 liter of water/acre.
- Preparation of field and sowing of late sown wheat can be completed.

Rajasthan

- Weather remained mainly dry in all the division of the state.
- Mainly dry weather is likely over the State.

- Fall in minimum temperature by 2-3°C over the state leading to development of cold wave conditions, fog condition is also likely over some parts of Rajasthan.

Advisories

- Apply light and frequent irrigation to standing crops in early stages to protect from cold injury.
- Undertake ploughing of fields and sowing of *rabi* crops viz, mustard, barley, taramira and gram.
- 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

- On 10.12.07 and 11.12.07: Weather was mainly dry.
- On 12.12.07: Rain occurred at a few places in all divisions of U.P
- West U.P: Mainly dry weather is likely over West U.P. Fall in minimum temperatures by 2-3 °C over the plains. Fog condition is also likely over some parts of the plains.
- East U.P: Isolated rain/thundershowers are likely over East Uttar Pradesh during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rainfall in the State during last week and mainly dry weather is likely over west U.P and isolated rain/thundershowers are likely over East U.P during next 24 hours and mainly dry weather thereafter, apply irrigation to the vegetable, pulses, rai, mustard and toria.
- Prepare the field and undertake sowing of onion and garlic.
- Spray the solution of Dimethoate 1.5 ml/litre of water to control stem borer in turmeric.
- Complete harvesting of rice.
- Complete sowing of late wheat varieties, Malviya-234, Narendra-236, TWT-373 and use seeds rate of 125 kg/hectare after seed treatment by Carbendazim and Thiram.

Himachal Pradesh

- Isolated rain / snow is likely over the state during next 48 hours and mainly dry weather thereafter.

Advisories

- As there was rainfall in most of the districts during last week and isolated rain is likely over the state for the next 48 hours and mainly dry weather thereafter, apply light irrigation to vegetables and toria and early sown wheat, barley and gram crops.
- 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 for sowing of wheat. 90-100 kg seed / ha is required for timely sown crops.
- Prepare land for sowing of barley. 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.

- Start sowing of Autumn varieties of potato.

Uttarakhand

- Very light to light rain occurred at many places on 11th & 12th December and at isolated places on 10th December while mainly dry weather prevailed during rest of the week.
- Isolated rain/snow is likely over the State during next 48 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rainfall in the State during last week and only isolated rain / snow likely over the State during next 48 hours and mainly dry weather thereafter, apply irrigation to pea and potato.
- Undertake intercultural operations, in potato and in orchards to keep the field weed free.
- Undertake weeding to conserve soil moisture in pea.
- Undertake harvesting of matured crops of sugarcane, pea and toria.
- Continue field preparation and sowing of wheat areas using certified seeds.

Jammu & Kashmir

- Isolated rain/snow is likely over Jammu & Kashmir during next 48 hours and mainly dry weather thereafter.

Advisories

- Apply irrigation to vegetable and fruit crops in Kashmir division and to vegetables, toria and fruit crops in Jammu division as there was no significant rainfall in the State during last week and isolated rain/snow are likely during next 48 hours and mainly dry weather thereafter.
- Drain out water from the field 10-15 days before harvesting of rice in Jammu division. Continue harvesting of the matured crop on bright sunny days.
- Prevailing weather conditions may be favorable for the mild infestation of aphids in toria crop in Jammu division. If the pest population crosses ETL, spray the crop with Chlorpyrifos 20EC @ 0.05% or Monocrotophos 36 EC @ 0.04 % on a non rainy day.
- Continue transplanting of cauliflower and knoll-khol with seed rate of 500g and 250 g respectively in Jammu division and sowing of onion in Kashmir division.
- Continue land preparation and sowing of wheat in Kashmir division. Adopt 100 kg/ha seeds for sowing. Apply 40kg N, 60kg P₂O₅ and 40kg K₂O as basal on a non rainy day.
- Sowing of normal sown wheat varieties (HD-2329, CPAN-3004, Raj-3077, PBW-343, RSP-303, WH-542 -& PBW-154) under irrigated condition and PBW396, RSP81, IWP-72 & PBW-175 under rainfed condition with seed rate 100 kg/ha can be done during this period in Jammu division.
- Prepare land for sowing of gobi sarson crop (varieties: GSL-I, DGS-I) and gram (var: C-235, K-468, Gourav and PBG-I) crop in Jammu division in irrigated as well as rainfed areas.
- Continue harvesting matured fruit crops and maize on bright sunny days in Jammu division and pea, lentil, chickpea etc. in Kashmir division.

Delhi

- Weather remained mainly dry
- Mainly dry weather is likely over the State.
- Fall in minimum temperatures by 2-3°C and fog condition is also likely over some parts of 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 undertake sowing of wheat. It is recommended to sow late varieties like UP 2338, HD 2285, HD 2687, HD 2428, 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.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

- Mainly dry / dry weather prevailed over Kerala during this period.
- Rain/thundershowers are likely at a few places over the State.

Advisories

- As there was no significant rainfall in most of the districts during last week and rain / thundershowers are likely at a few places over the State for the next three days, apply irrigation to plantation crops viz., coconut, arecanut, rubber and banana.
- Continue intercultural operations, application of fertilizers and pesticides on a non rainy day in plantation crops.
- 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.
- Attack of pink disease is reported in rubber. Clean the affected portion and apply Bordeaux paste @ 1% on a non rainy day.
- Harvest the matured mundakan rice crops in bright sunny days. Nursery raising and land preparation may be started for *puncha* rice crop in areas where *mundakan* crop is harvested.

Tamilnadu

- Rainfall occurred at one or two places over Tamilnadu on 10th, 12th and mainly dry weather prevailed on 11th December.
- Rain/thundershowers are likely at many places over coastal Tamil Nadu and at a few places over interior Tamil Nadu.

Advisories

- As rain/thundershowers are likely at many places over coastal Tamil Nadu with isolated heavy to very heavy rainfall, postpone irrigation, intercultural operations and top dressing of fertilizers. Provide adequate drainage facilities to avoid waterlogging due to heavy rainfall. As there was no significant rainfall during last week and rain/thunder showers are likely to occur at a few places over interior Tamilnadu for the next three days, apply irrigation to sugarcane and early sown maize, groundnut, black gram, green gram and pulses.
- The present cloudy weather is congenial for diseases like bacterial leaf blight (BLB) and blast in the current samba and Thaladi rice crops. To control the diseases spray Carbendazim @ 100g or Ediphenphos @ 200 ml or Tricyclozole @ 200g by mixing with 200litre of water using the hand sprayer.
- Monitor maize for stem borer and aphids and if the pests population crosses ETL, spray Carbaryl 50% WP @ 400 g/acre to control the pest.

- Continue sowing of rainfed groundnut, black gram, green gram and red gram after current spells of rain in coastal Tamilnadu. Use 112 kg pods/ha for groundnut and 20 kg/ha for pulse crops.
- Continue sowing rainfed millet crops like jowar, bajra and samai after current spells of rain in coastal Tamilnadu. Undertake seed treatment with Azospirillum before sowing.
- Continue picking 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 after current spells of rain in coastal 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 weeding, apply fertilizers and pesticides on a non rainy day in coastal Tamilnadu.

Karnataka

- Rainfall occurred at isolated places over South Interior Karnataka and dry weather prevailed over Coastal Karnataka and North Interior Karnataka on 10th December. Dry weather prevailed over the State on 11th and 12th December.
- Mainly dry weather is likely over the state.

Advisories

- As there was no significant rainfall during last week and mainly dry weather is likely over the State for the next three days, apply irrigation to sugarcane, *rabi* jowar, maize, cotton and sunflower.
- Undertake propping of sugarcane to prevent the crop from lodging.
- Undertake intercultural operation in *rabi* crops like maize, jowar, sunflower and cotton.
- Monitor *rabi* sunflower for powdery mildew and undertake spraying of Wettable Sulphur @ 3 g/litre of water, if required.

Andhra Pradesh

- Rain occurred at a few places over Rayalaseema on 6th & 7th December. Isolated rain occurred over Coastal Andhra Pradesh on 6th, 7th & 9th December and over Rayalaseema on 8th December. Dry weather prevailed elsewhere over the State during the week.
- Isolated rain/thundershowers are likely over south Coastal Andhra Pradesh, Rayalseema and mainly dry weather is likely over rest region of the State.

Advisories

- As there was no significant rainfall over the State during last week and rain/thundershowers are likely at isolated places over south Coastal Andhra Pradesh and Rayalaseema and mainly dry weather is likely over rest region of the State for the next three days, apply irrigation to red gram and chillies.
- Complete harvesting groundnut and continue harvesting rice.
- Continue picking cotton.
- Monitor red gram for *Helicoverpa* and if the pest population crosses ETL, spray NSKE @ 5% to control egg 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. The prevailing low temperature further hastens the deficiency. 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.
- Mainly dry weather is likely over the State.

Advisories

- As there was no significant 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 (at crown root initiation stage).
- Harvest already matured black gram and green gram on bright sunny days.
- 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.

Arunachal Pradesh

- Sky remained mainly clear 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.
- Undertake weeding and hoeing in pea, wheat, mustard and *rabi* maize to keep the field weed free.

Bihar

- Weather was mainly dry.
- Isolated rain/thundershowers are likely over Bihar during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no rainfall in the State during last few weeks and only isolated rain/thundershowers are likely over Bihar during next 24 hours and mainly dry weather thereafter, apply irrigation to arhar, fodder maize and sugarcane.
- Continue sowing of raddish, spinach, carrot and gram.
- Continue harvesting of the matured crops of rice.
- Continue field preparation and sowing of rai and linseed. Use certified seed of rai variety Rajendra Pichheti, Rajendra Annkul & Suphlam and linseed variety 397, Shubhra, Garima and Sweta.
- Continue field preparation and sowing of timely sown wheat in irrigated areas. Select varieties like HD 2733, HP 1761, K9107, HUW 468, PBW 443, PBW 343, RW 346, RW 234, RW 3413 and UP 262. Use seed rate @ 125 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.
- Earthing up and top dressing of urea (125 kg/hectare) may be done in early sown potato.
- Continue field preparation and 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 K8962, GW 173,DL 7882, etc. in rainfed area.

Sikkim

- Sky remained partly cloudy during the period.
- Isolated rain/thundershowers are likely over the State during next 24 hours and mainly dry weather there after.

Advisories

- As there was no significant rainfall during last week and only isolated rain/thundershowers are likely over the State during next 24 hours and mainly dry weather thereafter, apply irrigation to *rabi* vegetable crops like cabbage, cauliflower, carrot and beet root.
- Continue harvesting of ginger and orange.
- Undertake intercultural operations and application of fertilizers in *rabi* vegetable crops like cabbage, cauliflower, carrot and beet root.
- Continue land preparation and sowing wheat. Use certified seeds for sowing.

West Bengal

- Weather was mainly dry during the period from 10th to 12th December over Sub Himalayan West Bengal and Gangetic West Bengal.
- Isolated rain/thundershowers are likely over Sub-Himalayan West Bengal during next 24 hours and mainly dry weather thereafter.

- Mainly dry weather is likely over Gangetic West Bengal.

Advisories

- As there was no significant rainfall in the State during last week and no significant rain is expected for next three days, apply irrigation to sugarcane and arhar and *rabi* crops like mustard, rapeseed, wheat, gram, lentil, potato and sunflower.
- Keep vigil against late blight disease of potato. Uproot and burn the affected plants. Apply Dimethoate 30% @ 2 ml / litre of water in the remaining healthy plants.
- Continue preparation of land and sowing of sunflower. Apply 8 – 10 tonnes of organic matter along with 30 kg N, 80 kg P₂O₅ and 35 kg K₂O as a basal dose in irrigated areas. In non-irrigated areas the dose will be 20 kg N, 60 kg P₂O₅ and 35 K₂O. Select hybrid varieties from Surya-51, Pack-36 and M.S.F.H-17 from sowing. Adopt seed rate of 3.5 to 4 kg / ha. Treat the seeds with Thyrum @ 3g / kg of seeds.
- 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 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 sugarcane, *khari* 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 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.

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, mustard and niger and early sown wheat, potato and other *rabi* crops.
- Transplanting of seedlings of tomato, brinjal, chilli, cauliflower etc. in the main fields may be continued in the afternoon to avoid the mortality of seedlings.
- Prepare land for sowing of wheat and *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.

- Continue planting of autumn sugarcane. Plant autumn sugarcane before 15th December. Top 1/3rd portion of the cane free from red rot disease should be used for planting purpose. Before planting the seeds should be dipped for 15 minutes in the solution of Copper Oxychloride or Emisan @ 2 or 3 gm per liter 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*.
- Apply 35 kg Nitrogen/ha after 30 days from sowing of rabi safflower at the time of first irrigation.
- 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 division in Sugarcane (pre-seasonal) & sugarcane (Suru), pod borer in Nashik, Pune, Aurangabad, Latur and Amravati division in kharif tur and shoot fly in Jalna district and Latur division in rabi jowar 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.
- This is the proper time for planting of onion. For plantating N-2-4-1, Pusa red, Arka nikan, for export Phule suvarna & for onion powder Agri found white-1, Phule safed, N-257-9-1 varieties may be selected. Apply Nitrogen, Phosphorus & Potash 50 kg each / ha before planting. Prepare plane beds of Suitable size & plantation may be done at 12.5 X 7.5 cm distance & 4.5 cm depth. Flood irrigation may be given 24 hours before the transplanting of seedlings. Plant seedlings of 0.5 cm base diameter. Seedling roots may be dipped in 1 % Urea & apex in Monocrotophos 12.5ml + DaithenM-45, 25 gm in 10 liters solution followed by solution of 4 packets of Azotobacter in 10 liters before planting.

Madhya Pradesh

- Rainfall occurred at isolated places in West M.P. on 12thDec. and dry weather prevailed over rest of the state for remaining period.
- Isolated rain/thundershowers are likely over northeast Madhya Pradesh during next 24 hours and mainly dry weather thereafter. Mainly dry weather is likely over the rest of the State.

Advisories

- As dry weather prevailed during last week in the State and no significant rain is expected for next three days, apply irrigation to sugarcane, linseed, lentil, gram and mustard and also to wheat wherever the crops are at crown root initiation stage.
- Undertake intercultural operation in sugarcane and other *rabi* crops to keep the field weed free.
- Prepare land and complete sowing of irrigated wheat by second week of December. Undertake seed treatment with the mixture of 1 gm of Carbendazim and 2 g Thiram before sowing. Select varieties from Navin Chandosi (H.I.1418), Vidisha (D.L.-788/2), G.W.-173, Aabha (H.I.-1454) for irrigated wheat.

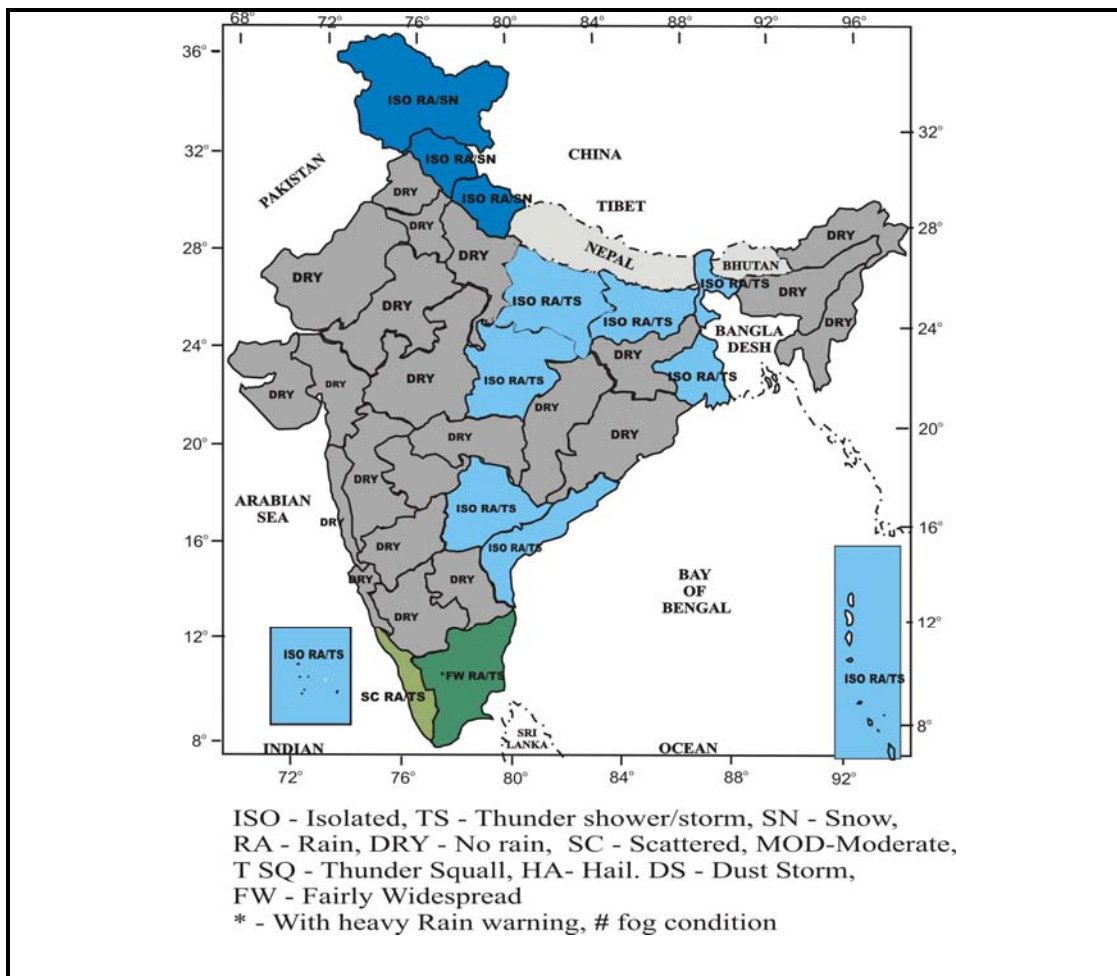
Orissa

- Weather has been dry over the State during the 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 and pulse crops.
- Harvest the matured crops of rice.
- Complete field preparation and sowing of mustard. Sow irrigated mustard variety Parvati, Anuradha, P.T.303, Pusa agrani etc. using 3 to 4 kg of seed per acre. Treat the seed with Carbendazim @ 1.5 gm/kg of seed or 3gm Thiram @ 3gm/kg of seed. Apply 12kg N, 12 kg P, and 12 kg K per acre as basal fertilizer. Maintain a spacing of 30x10 cm.
- Complete field preparation and sowing of groundnut. Select groundnut variety like A.K.1224 or Smruti and maintain a spacing of 30x10 cm.

Forecast Valid upto 16th December 07



Salient weather features for the week ending 12/12/07

METEOROLOGICAL ANALYSIS

- Last week's upper air cyclonic circulation in lower tropospheric levels over Jammu & Kashmir and neighbourhood moved away eastwards on 6th.
- A western disturbance as an upper air system lay over north Pakistan & adjoining Jammu & Kashmir on 6th, over Jammu & Kashmir and neighbourhood on 7th and moved away eastward thereafter.
- Another western disturbance as an upper air system lay over north Pakistan & adjoining Jammu & Kashmir on 9th, over Jammu & Kashmir and neighbourhood on 10th, over Himachal Pradesh & neighbourhood on 11th and moved away eastward on 12th.
- An upper air cyclonic circulation in lower tropospheric levels lay over Rajasthan & neighbourhood on 11th and over West Madhya Pradesh & neighbourhood on 12th.
- Easterly waves sometimes embedded with upper air cyclonic circulations at lower tropospheric levels passed through Andaman & Nicobar Islands, South Bay of Bengal, extreme south peninsula and southeast Arabian Sea. Under its influence, a low pressure area formed over southwest Bay of Bengal off southeast coast of Sri Lanka on 11th. It persisted over the same area on 12th.

RAINFALL

Under the influence of the above systems:

- Scattered to fairly widespread rain/snow occurred over Jammu & Kashmir, Himachal Pradesh and Uttarakhand during 10th to 12th December.
- Isolated to scattered rain/thundershowers occurred over Punjab & Haryana on 11th & 12th, over Uttar Pradesh and northwest Madhya Pradesh on 12th.
- Isolated rain/thundershowers occurred over Andaman & Nicobar Islands during many days of the week.
- The rainfall was subdued over south peninsula during the week. Isolated to scattered rain/thundershowers occurred over Tamil Nadu during first half of the week. Isolated rain/thundershowers occurred over Kerala & Karnataka on 7th.
- Mainly dry weather prevailed over remaining parts of the country during the week.

MINIMUM TEMPERATURE

- The minimum temperatures were below normal by 2-4°C over many parts of northwest India on 8th & 9th. With increase in temperature, they became above normal by 2-5°C thereafter.
- They were above normal by 2-7°C over Rajasthan on many days of the week.
- They were below normal by 2-4 °C over Vidarbha and Marathawada during first half of the week. With increase in temperature, they became above normal by 2-5°C by the end of the week.
- They were normal during the first half of the week and above normal by 2-5°C over Madhya Pradesh and many parts of north Coastal Andhra Pradesh and Telangana during the second half of the week.
- They were near normal over remaining parts of the country during the week

RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 12TH DECEMBER, 2007)

Rainfall was excess/normal in 6, deficient/scanty in 12 and no rain in 18 out of 36 meteorological sub-divisions (Actual: 1.8 mm, Normal: 3.9 mm and Departure: -54 %).

CUMULATIVE SEASONAL RAINFALL (1ST OCTOBER TO 12TH DECEMBER, 2007)

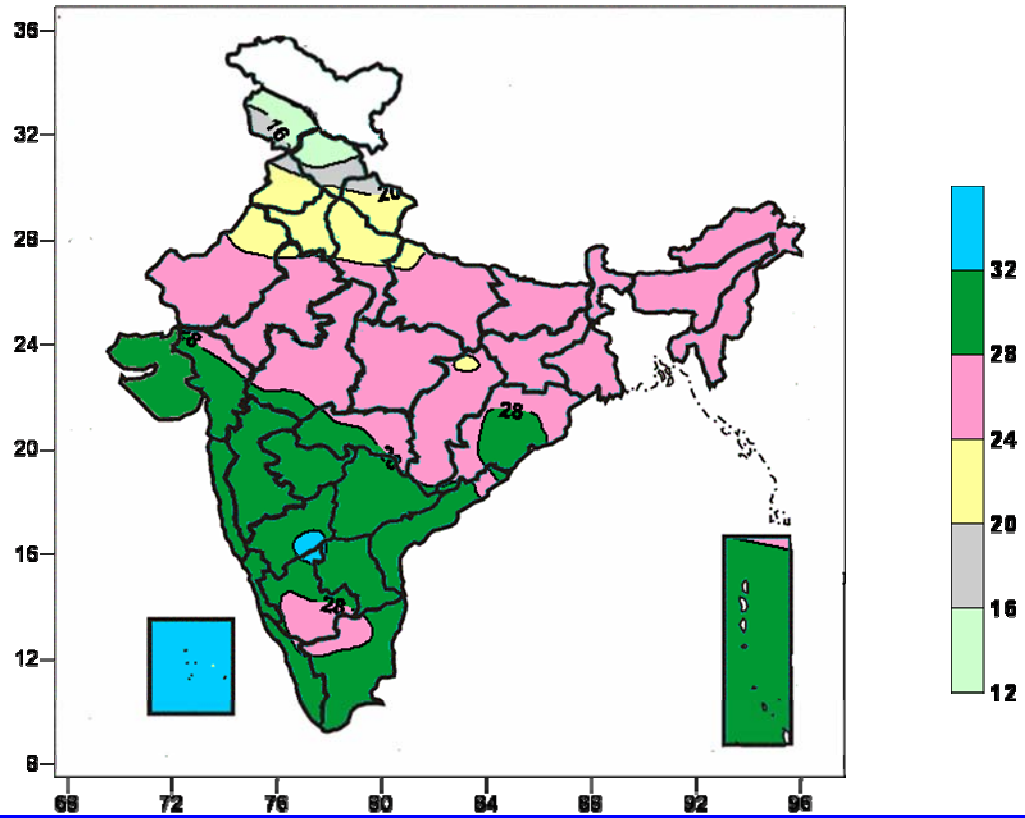
Rainfall was excess/normal in 8 and deficient/scanty in 28 out of 36 meteorological sub-divisions. (Actual: 72.6 mm, Normal: 114.7 mm and Departure: -37%).

OUTLOOK FOR THE WEEK ENDING ON 19TH DECEMBER, 2007.

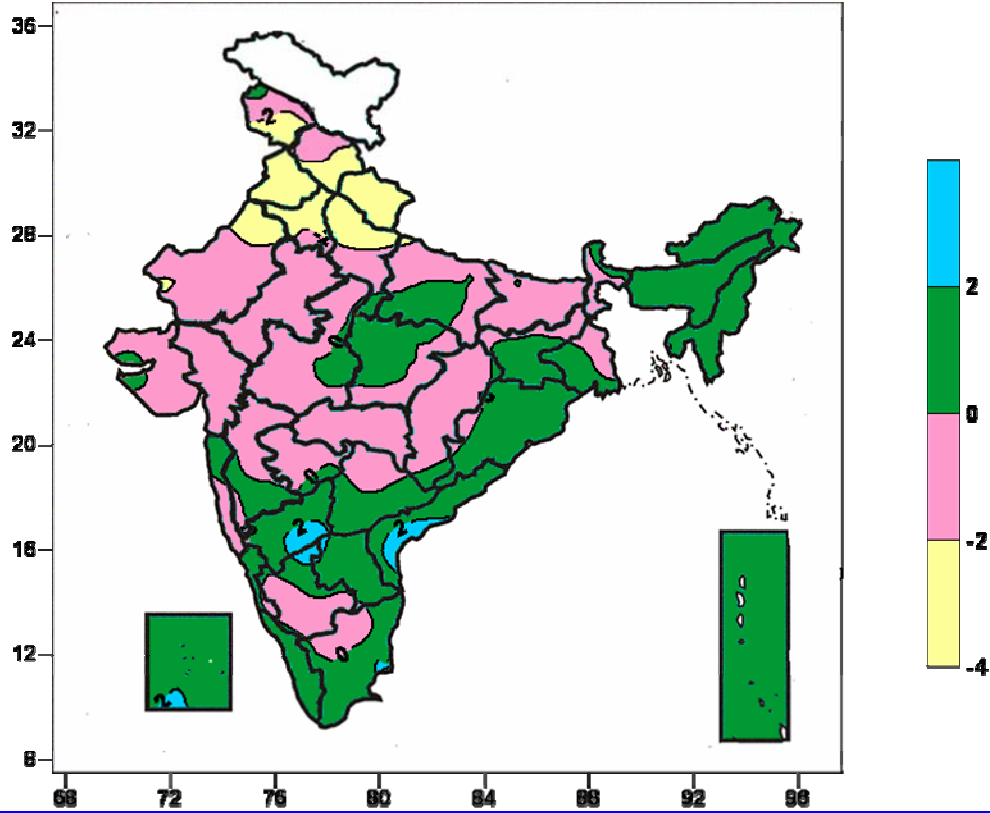
- Fairly widespread rain/thundershowers with isolated heavy to very heavy falls are likely over extreme south peninsula during first half of the week.
- Cold wave conditions are likely to develop over plains of northwest India, West Madhya Pradesh and Rajasthan during second half of the week.
- Fog conditions are likely over some parts in the plains of northwest India.

Contour maps for the week ending 12th December, 2007

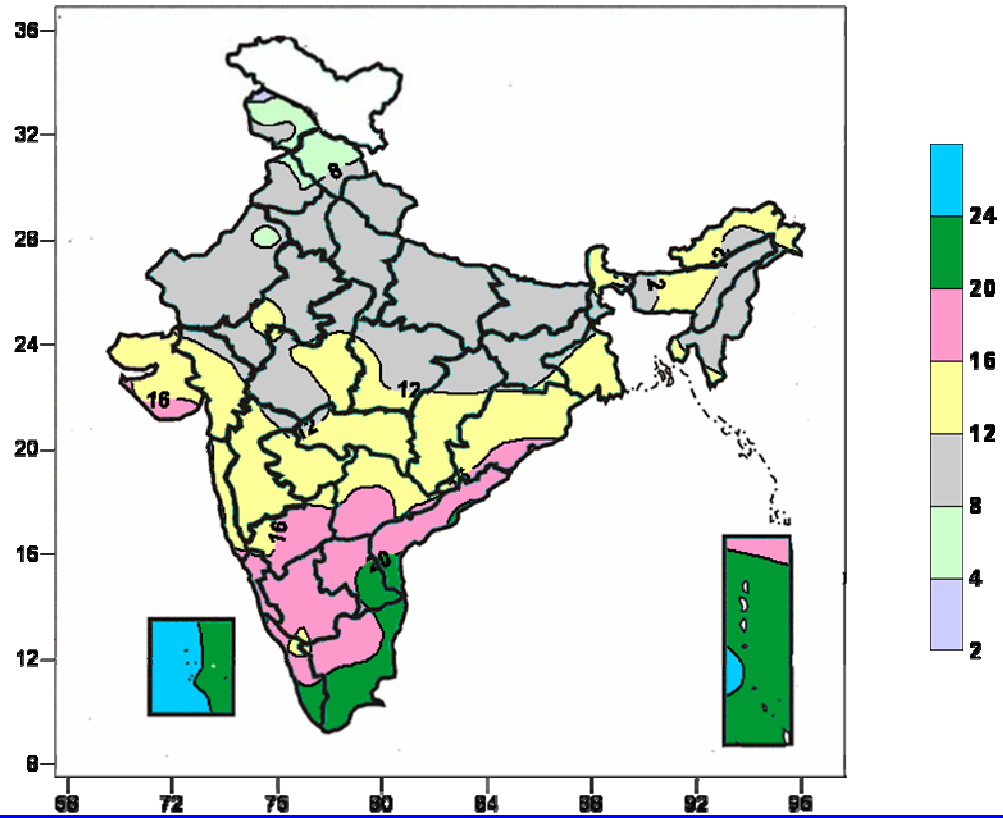
Actual Mean Maximum Temperature (°C) in India for the week ending 12.12.07



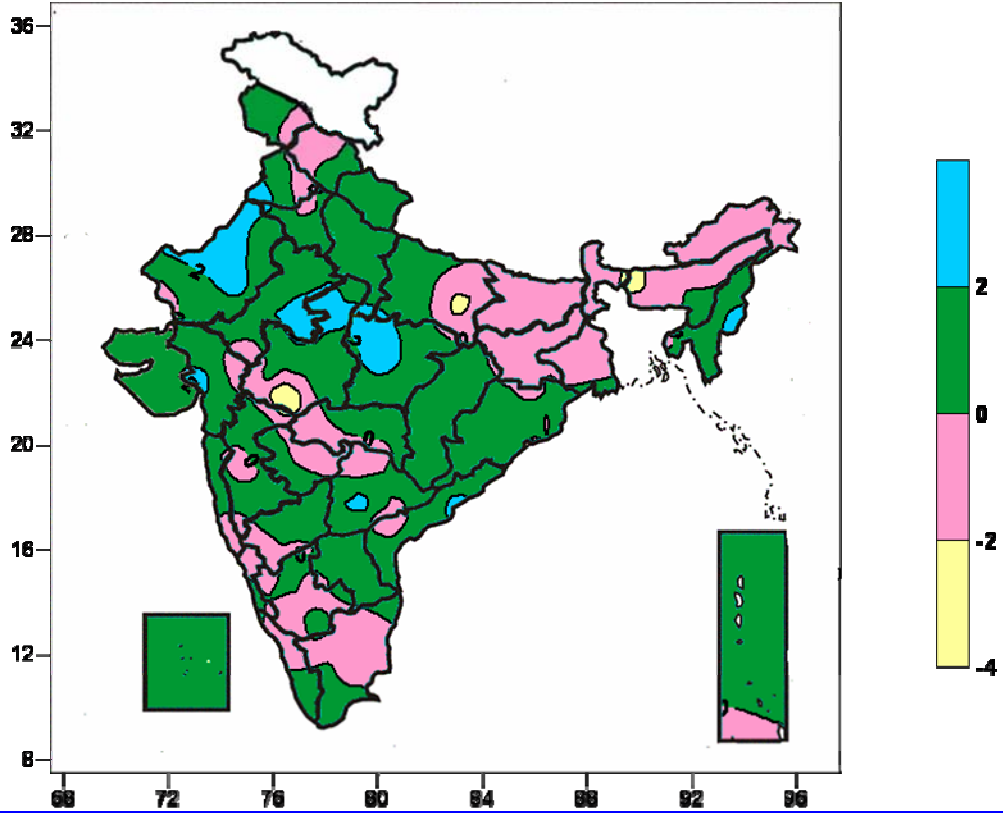
Maximum Temperature (°C) Anomaly in India for the week ending 12.12.07



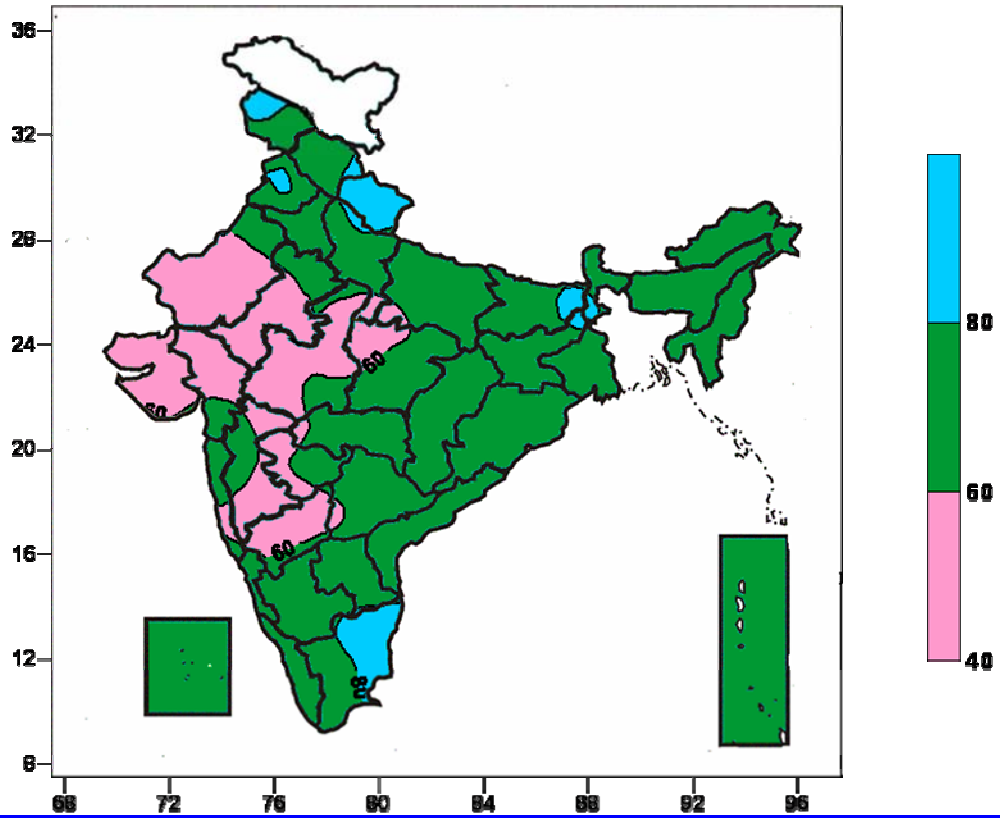
Actual Mean Minimum Temperature (°C) in India for the week ending 12.12.07



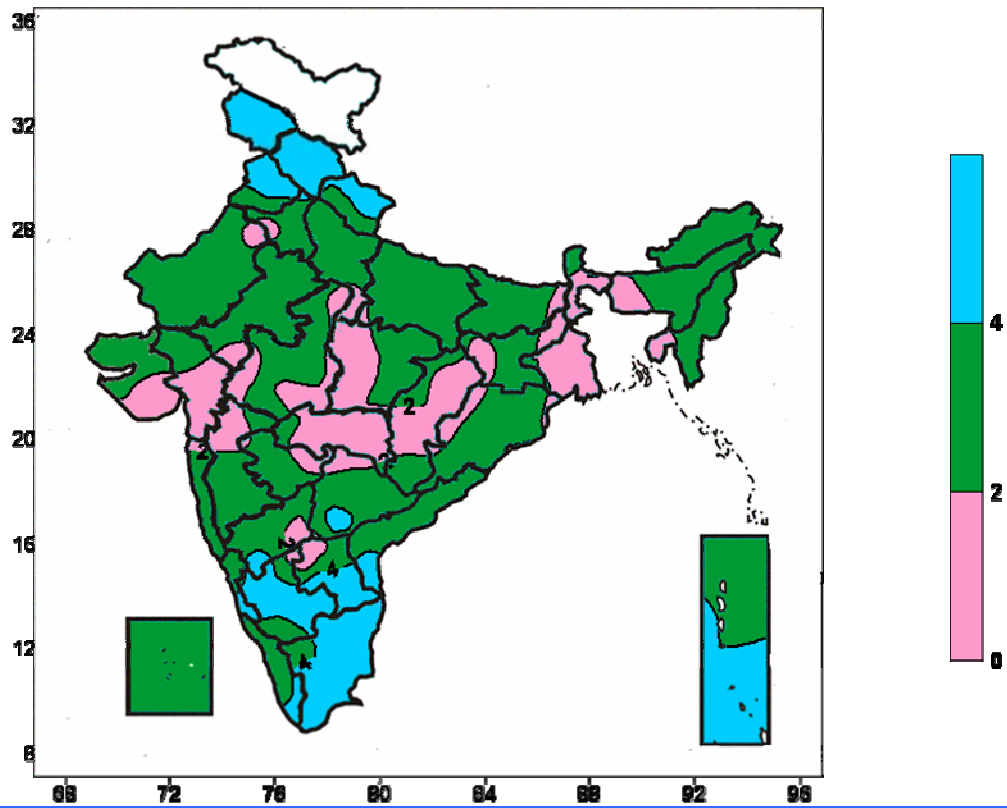
Minimum Temperature (°C) Anomaly in India for the week ending 12.12.07



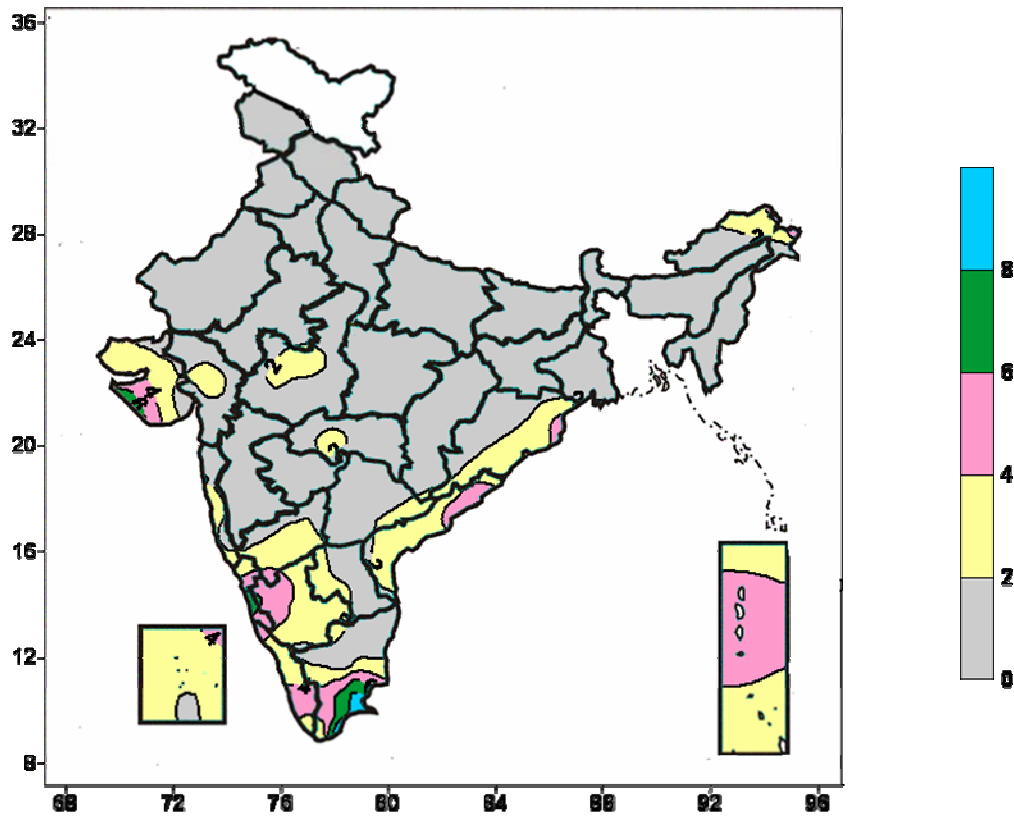
Relative Humidity (%) over India for the week ending 12.12.07



Cloud amount (okta) over India for the week ending 12.12.07



Wind speed (knots) over India for the week ending 12.12.07



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	Sowing	Early vegetative / crown root initiation	Vegetative
Gram	Barley			
Vegetative	Vegetative			

Haryana				
Sugarcane / Autumn sugarcane	Horticultural crops	Cotton	Cabbage, pea, garlic, potato	Toria
Vegetative / early vegetative	Vegetative	Picking	Sowing	Flowering / fruiting
Rabi oilseeds	Wheat	Rabi Pulses		
Early vegetative / vegetative	Germination	Early vegetative		

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 Early sown crops – germination / early vegetative / crown root initiation
Barley	Gram	Oilseeds		
Land preparation & sowing Early sown crops – germination / early vegetative	germination / early vegetative	Land preparation & sowing (Toria – vegetative)		

Jammu & Kashmir

Vegetable crops	Rice	Pulses / wheat / brown sarsun	Mustard, gobi sarson	Barley, Oat
Sowing / transplanting	Harvesting- Jammu div.	Land preparation for sowing	Land preparation for sowing in Jammu div.	Land preparation for sowing

Punjab

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

Rajasthan

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

Uttar Pradesh

Sugarcane	Vegetables	Rice	Rai , mustard	Toria
Cane maturity	Flowering / fruiting / maturity	Late Harvesting	Early vegetative	Flowering / pod formation
Mango	Wheat	Rabi pulses		
Vegetative	Seedling	Early vegetative		

Uttarakhand

Pea	Toria	Sugarcane	Potato	Wheat
Pod formation	maturity	Maturity	Tuber growth	Seedling / crown root initiation
Mango/Litchi				

Vegetative				
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Assam

Sugarcane	Arhar	Black Gram & Green Gram	Boro rice	Winter vegetables
Harvesting	Flowering / pod formation	Pod maturity / harvesting	Nursery sowing	Land preparation & sowing / transplanting Early sown – early vegetative / vegetative
Rabi crops	Wheat	Horticultural plants		
Vegetative / flowering	Germination / crown root initiation	Planting		

Arunachal Pradesh

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

Bihar

Vegetables & fruit crops	Maize fodder	Arhar	Sugarcane	Kharif rice
Sowing	vegetative	Vegetative	Vegetative	Harvesting
Rabi oilseeds	Gram	Early sown pulses	Wheat	
Sowing (Early sown – early vegetative)	sowing	Early vegetative stage	Sowing	

Jharkhand

Pea, gram	Potato	Vegetables (Tomato, Brinjal, Bhendi)	Wheat
Early vegetative / vegetative	Early vegetative / vegetative	Early vegetative	Sowing

Sikkim

Orange	Vegetables (Cauliflower, Cabbage, Carot, Beat, tomato)	Large Cardamom	Ginger	Rice
Harvesting	vegetative	Nursery sowing	Harvesting	Harvesting
Wheat	Mustard			
Sowing	Early vegetative			

West Bengal

Sugarcane	Arhar	Mustard / Rapeseed / Wheat / gram / lentil	Potato	Sunflower
Cane development	Pod formation (Rabi arhar- sowing)	Germination / early vegetative / vegetative	Germination / early vegetative / vegetative	Land preparation / sowing
Early sown Sunflower	Boro rice			
Germination / early vegetative	Nursery sowing			

Chattisgarh

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

Gujarat

Sugarcane	Kharif Cotton	Castor	Mustard	Wheat
Early cane maturity/harvesting	Boll formation/ boll maturity / picking	Spike formation	vegetative	Land preparation & sowing
Early sown wheat				

Germination / early vegetative / crown root initiation				
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Maharashtra

Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)	Rabi safflower	Rabi Jowar	Kharif Tur (Madhya Maharashtra, Marathwada & Vidarbha)
Active growth / elongation	Active growth / elongation	active vegetative	early vegetative	Pod formation / grain filling
Kharif Cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Irrigated cotton (Madhya Maharashtra, Marathwada & Vidarbha)	potato	Rabi onion	Gram (Madhya Maharashtra, Marathwada & Vidarbha)
Boll maturity / picking	Boll maturity / picking	early vegetative	Planting	early vegetative / branching
Wheat (Konkan, Madhya Maharashtra, Marathwada & Vidarbha)	Maize (Madhya Maharashtra, Marathwada & Vidarbha)		Early sown onion	
Germination / early vegetative / crown root initiation	early vegetative / vegetative		Early vegetative	

Madhya Pradesh

Sugarcane	Rabi crops (linseed, lentil, gram, mustard)	Wheat	Early sown wheat	
Grand growth	Early vegetative / vegetative	Sowing	Germination / crown root initiation	

Orissa

Kharif vegetables	Kharif rice	Sugarcane	Pulses	Rabi oilseeds
Vegetative / fruiting	Maturity	Vegetative	Flowering / pod formation	Sowing
				Early sown oilseeds
				Seedling / early vegetative

Andhra Pradesh

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

Karnataka

Sugarcane (Ratoon crop)	Rabi Jowar/Maize/Cotton/Sunflower			
Grand growth	Vegetative / flowering			

Kerala

Rubber	Mundakkan Rice	Pepper		
Tapping	Grain formation / maturity	harvesting		

Tamil Nadu

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