



Summary of Agromet Advisory Services for different States of the country

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(For the period 6th to 10th 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 dry.
- Mainly dry weather likely to prevail over 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, and Horticultural crops.
- Complete sowing gram and lentil using improved varieties.
- 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 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 3rd December. Weather remained dry during rest days of the period.
- Mainly dry weather is likely over 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, 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 wheat can be continued.

Rajasthan

- Rain /thundershowers occurred at isolated places in Jaipur, Ajmer and Kota divisions on 03.12.07 and weather remained mainly dry in rest days of all the divisions of the state.
- Mainly dry weather is likely over the State.

Advisories

- Continue picking of cotton and harvesting guar. Picking of fully open boll of cotton may be undertaken in the early morning hours to maintain the quality of kapas.
- 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

- Rain occurred at isolated places in Faizabad, Kanpur, Allahabad, Lucknow, Jhansi, Agra division on 3rd December and weather was mainly dry in remaining divisions of Uttar Pradesh during the period.
- Weather will be mainly dry in the State.

Advisories

- As there was no rainfall in the State during last week and mainly dry weather is likely over U.P for the next three days, 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 stemborer 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

- Weather was mainly dry.
- Isolated rain / snow is likely over the State during next 48 hours.

Advisories

- As there was no significant rainfall over the State during last week and only isolated rain is likely over the state for the next 48 hours, apply 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

- Light rain / snow occurred at isolated places in high reaches on 29th December. Mainly dry weather prevailed during rest of the week.
- Isolated rain / snow likely over the State.

Advisories

- As there was no rainfall in the State during last week and only isolated rain / snow likely over the State during next 48 hours, apply irrigation to toria, pea and potato.
- Undertake intercultural operations, in potato and in orchards to keep the field weed free.
- Undertake weeding to conserve soil moisture in toria/pea.
- Undertake harvesting of matured crops of sugarcane.
- 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.

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 rainfall in the State during last week and isolated rain/snow are likely during next 48 hours.
- 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 Chloropyriphos 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 of matured fruit crops and maize on bright sunny days in Jammu division and pea, lentil, chickpea etc. in Kashmir division.

Delhi

- Very light rain occurred on 3rd December at a few places. Weather remained mainly dry on rest of days.
- Mainly dry weather is 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 land and undertake transplanting of 5 – 6 weeks old seedlings of cauliflower, cabbage and knoll khol in the main field.
- Continue sowing varieties like Pusa Himani for raddish.
- 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

- Dry weather prevailed over the State during this period.
- Isolated rain / thundershowers are likely over the State.

Advisories

- As there was no significant rainfall in most of the districts during last week and isolated rain / thundershowers are likely 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 in plantation crops.
- Attack of rhinoceros beetle 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.
- Attack of pink disease is reported in rubber. Clean the affected portion and apply Bordeaux paste @ 1%.
- 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 a few places over North Coastal Tamilnadu, at one or two places over rest Tamilnadu on 4th December 2007 and at one or two places over Tamilnadu on 3rd, 5th December 2007.
- Rain/thundershowers are likely at few places over north Tamilnadu and isolated over south Tamilnadu.

Advisories

- As there was no significant rainfall during last week and rain/thunder showers are likely to occur at a few places over north Tamilnadu and isolated over south 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. Use 112 kg pods/ha for groundnut and 20 kg/ha for pulse crops.
- Continue sowing rainfed millet crops like jowar, bajra and samai. 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 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 phosphate @ 100 kg/ac and potash @ 13 kg/ac as basal for both rainfed and irrigated condition.

Karnataka

- Rainfall occurred at isolated places over South Interior Karnataka and mainly dry weather prevailed over Coastal Karnataka and North Interior Karnataka on 5th December. Mainly dry weather prevailed over South Interior Karnataka and dry weather prevailed over Coastal Karnataka and North Interior Karnataka on 4th December. Dry weather prevailed over the State on 3rd December.
- Isolated rain/thundershowers are likely over South Interior Karnataka and mainly dry weather is likely over rest region of the State.

Advisories

- As there was no significant rainfall during last week and isolated rain/thundershowers are likely over South Interior Karnataka and mainly dry weather is likely over rest region of 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

- Isolated rain occurred over Coastal Andhra Pradesh on 3rd December and over Rayalaseema on 4th & 5th December. Dry weather prevailed elsewhere over the State during the week.
- Rain/thundershowers are likely at a few places over Rayalaseema 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 a few places over 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.
- Application of fertilizers, pesticides and intercultural operations may be done on a non rainy day in Rayalaseema.

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

Assam

- Light to moderate rain occurred at a few places on 4th, very light rain at isolated places on 5th December and dry weather prevailed over the state on 3rd December.
- 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 *Sali* rice crops and 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 early varieties of 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.
- Prepare land and continue sowing of wheat. Wheat may be sown up to 1st week of December. Select varieties from Sonalika, PBW, UP-262 etc. Adopt seed rate of 16 kg / bigha.
- 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.

Arunachal Pradesh

- Rain / Thundershowers occurred at a few places on 4th December and weather remained mainly dry on other days of the period.
- Mainly dry weather is likely over the State.

Advisories

- As there was no significant rainfall in most the districts and mainly dry weather is likely for the next three days, apply irrigation to wheat, potato and mustard. Postpone irrigation in Tirap and Upper Subansiri districts as there was sufficient rainfall during last week.
- 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.
- Mainly dry weather is likely over the State.

Advisories

- As there was no rainfall in the State during last two weeks and mainly dry weather is likely over the State for the next three days, apply irrigation to the arhar, fodder maize and sugarcane.
- Continue sowing of raddish, spinach, carrot, gram and lentil .
- 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.

Jharkhand

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

Advisories

- Apply irrigation to vegetables 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. Sow varieties like HD-2733, HD – 2402, HUW – 468, PBW – 343, NW- 1012, K8804, K9107 etc. in irrigated conditions and C 306, K 8027, HDR 77, K8962 for rainfed conditions.

Sikkim

- Sky remained generally cloudy during the period. Light rain occurred at few places on 4th and very light rain occurred at one or two places on 29th November. Weather was mainly dry over East Sikkim during rest of the days. Rain fall was excess over East Sikkim during the period.
- 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 *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

- Light to moderate rain occurred at few places on 4th December over Sub Himalayan West Bengal. Weather was mainly dry during the rest period over the districts of West Bengal.
- Mainly dry weather is likely to prevail over West Bengal State.

Advisories

- As there was no significant rainfall in the State during last week and mainly dry weather is likely to prevail for next three days, apply irrigation to sugarcane and arhar and already sown *rabi* crops like mustard, rapeseed, wheat, gram, lentil, *rabi* arhar, potato and sunflower.
- Continue harvesting of already matured *aman* rice crops on bright sunny days.
- 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.
- Prepare land and continue sowing of wheat and *rabi* arhar and planting of potato.
- 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 Thiram @ 3g / kg of seeds.

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

Gujarat

- Dry weather prevailed over the State. 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, *kharif* cotton and castor and early sown mustard and 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 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 for irrigated crops and 20 kg N / ha for rainfed crops. Select varieties from Lok-1, GW-190, GW-496, 503, 273, 322, Raj 1555 for timely sown irrigated crops, Lok-1 and GW-173 for late sown irrigated crops and GW-1 and A-206 for rainfed 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 and vegetables and early sown rapeseed, mustard and niger.
- Harvest the already matured *kharif* rice crops on bright sunny days. Sowing of gram, safflower, green gram, linseed and lathyrus may be undertaken before harvesting of rice in wet field as utera crop.
- 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.
- Start 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 significant 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, 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 safflower at the time of first irrigation.
- Second dose of 50 kg Nitrogen / ha may be applied to potato as top dressing after weeding.
- 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), boll worm in Nagpur division in *kharif* cotton and irrigated cotton and pod borer in Nashik, Pune, Aurangabad, Latur and Amravati division in *kharif* tur 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.
- For the control of boll worm in cotton adopt integrated pests management method. Monitor the crop for same & if exceeds economic threshold level, spray 36 % WSC Monocrotophos @ 850 ml or 25 % WSC Quinolphos @ 1000 ml / ha in 500 liters water wherever crop is at boll formation stage.
- Monitor the crop for pod borer in tur & if exceeds economic threshold level, first spray 250 diseased larvae of Nuclear poly hydrosis virus followed by 35 EC Endosulphan 1000 ml/ha in 500 liters water 3 times by 15 days interval.
- 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 North M.P on 3rd December, dry weather prevailed over the state for remaining period.
- Mainly dry weather is likely over the State.

Advisories

- As dry weather prevailed during last week in the state and likely to prevail for the next three days, apply irrigation to sugarcane and also to linseed, lentil, gram, mustard and wheat wherever the crops are at vegetative stage.
- Undertake intercultural operation in sugarcane and other *rabi* crops to keep the field weed free.
- Continue picking of cotton on bright sunny days.
- 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.
- Undertake nursery sowing of cabbage, cauliflower and onion. If seedlings are at proper age, transplanting in the main field may be started.
- Undertake sowing of coriander, spinach and methi in the main field.
- Continue land preparation and sowing of pea (Arkel). Undertake seed treatment with Vebistene @ 2.0 g per kg of seed before sowing.

- Continue land preparation and planting of berseem for green fodder.

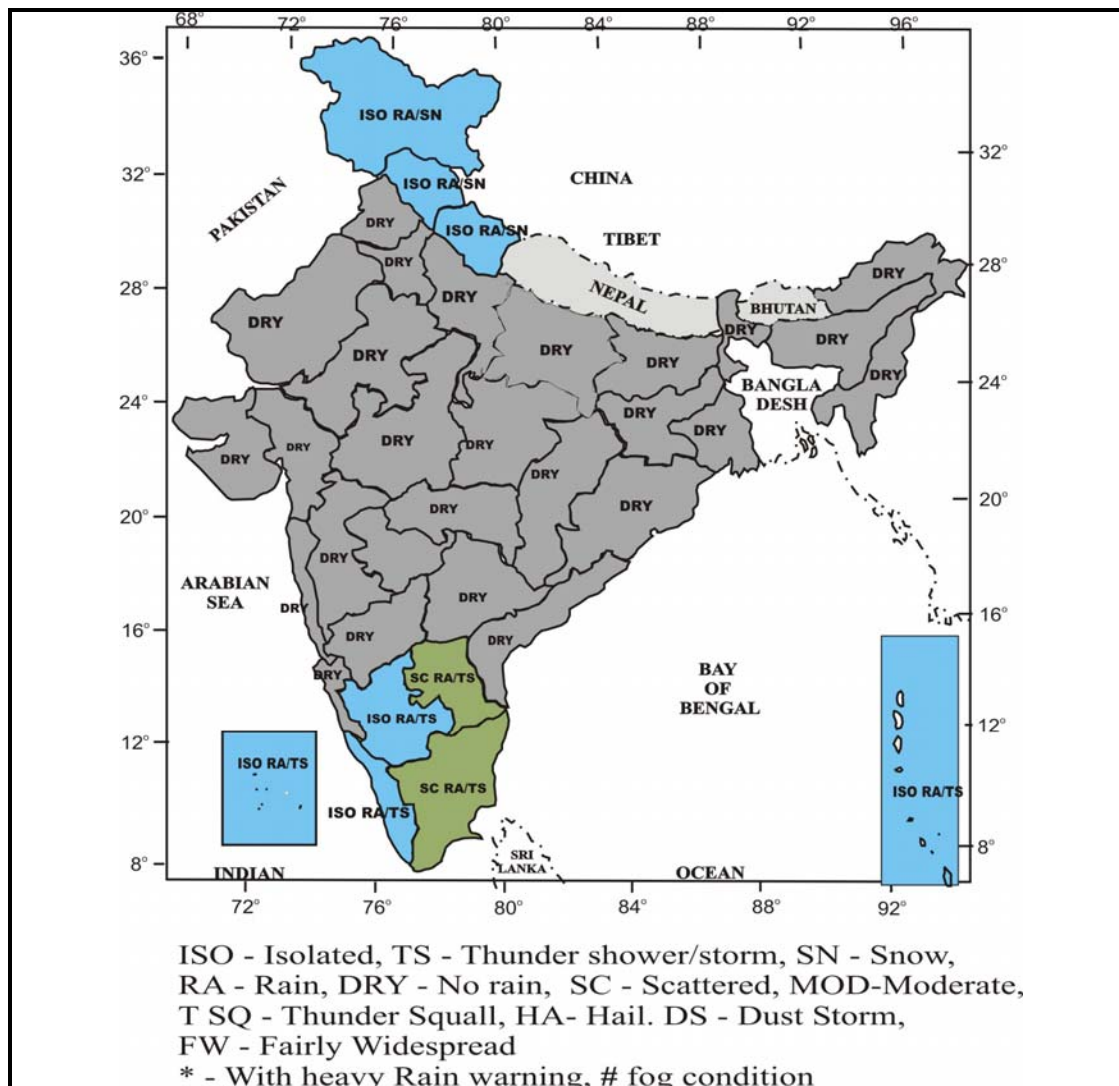
Orissa

- 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 and sunflower. Select groundnut variety like A.K.1224 or Smruti and maintain a spacing of 30x10 cm. Select sunflower variety Morden or Sunrise or hybrid like KBSH 1 or KBSH 3. Use 4kg seed for variety and 2 kg seed for hybrid per acre. Apply 8kg N, 16kg P and 12kg K for variety per acre and for hybrid twice the quantity per acre.

Forecast Valid upto 9th December 07



Salient weather features for the week ending 5/12/07

METEOROLOGICAL ANALYSIS

- Last week's upper air trough extending from Nagaland & Manipur to Sub-Himalayan West Bengal & Sikkim in the lower tropospheric levels persisted on 29th November and became less marked on 30th.
- Weak easterly waves sometimes with embedded cyclonic circulations at lower tropospheric levels passed through Andaman & Nicobar Islands, South Bay of Bengal, extreme south peninsula and southeast Arabian Sea during the week.
- A western disturbance as an upper air system lay over north Pakistan & neighbourhood on 29th, over Jammu & Kashmir & neighbourhood during 30th November to 2nd December and moved away eastward thereafter.
- An upper air cyclonic circulations in lower tropospheric levels lay over north Pakistan & neighbourhood on 4th and over Jammu & Kashmir and neighbourhood on 5th December.
- An upper air cyclonic circulations in lower tropospheric levels lay over Assam & neighbourhood during 30th November to 3rd December and moved away eastwards on 4th.

RAINFALL

Under the influence of the above systems:

- Isolated to scattered rain/thundershowers occurred over coastal Tamil Nadu during many days of the week.
- Isolated rain/thundershowers occurred over Kerala on 29th.
- Isolated rain/thundershowers occurred over northeastern States on a few days of the week.
- Isolated to scattered rain/thundershowers occurred over Punjab, Jammu & Kashmir and Himachal Pradesh on 29th & 30th November, over Haryana, northwest Madhya Pradesh and West Uttar Pradesh on 2nd December.
- Mainly dry weather prevailed over remaining parts of the country during the week.

MINIMUM TEMPERATURE

- The minimum temperatures were below normal by 2-3°C over Jammu & Kashmir, Himachal Pradesh and Uttarakhand on many days of the week.
- They were above normal by 3-7°C over Rajasthan and by 2-4°C over West Uttar Pradesh, Haryana, northwest Madhya Pradesh, West Bengal, Gujarat Region, Maharashtra and northeastern states on many days of the week.
- They were below normal by 2-4 °C over Chhattisgarh, remaining parts of Madhya Pradesh, Jharkhand, Interior Karnataka on a few days of the week.
- They were below normal by 2-3 °C during the first half of the week and above normal by 2°C during the second half of the week over Andhra Pradesh.
- They were near normal over remaining parts of the country during the week.

RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 5TH DECEMBER, 2007)

Rainfall was excess/normal in 5, deficient/scanty in 14 and no rain in 17 out of 36 meteorological sub-divisions (Actual: 1.4 mm, Normal: 4.5 mm and Departure: -69 %).

CUMULATIVE SEASONAL RAINFALL (1ST OCTOBER TO 5TH DECEMBER, 2007)

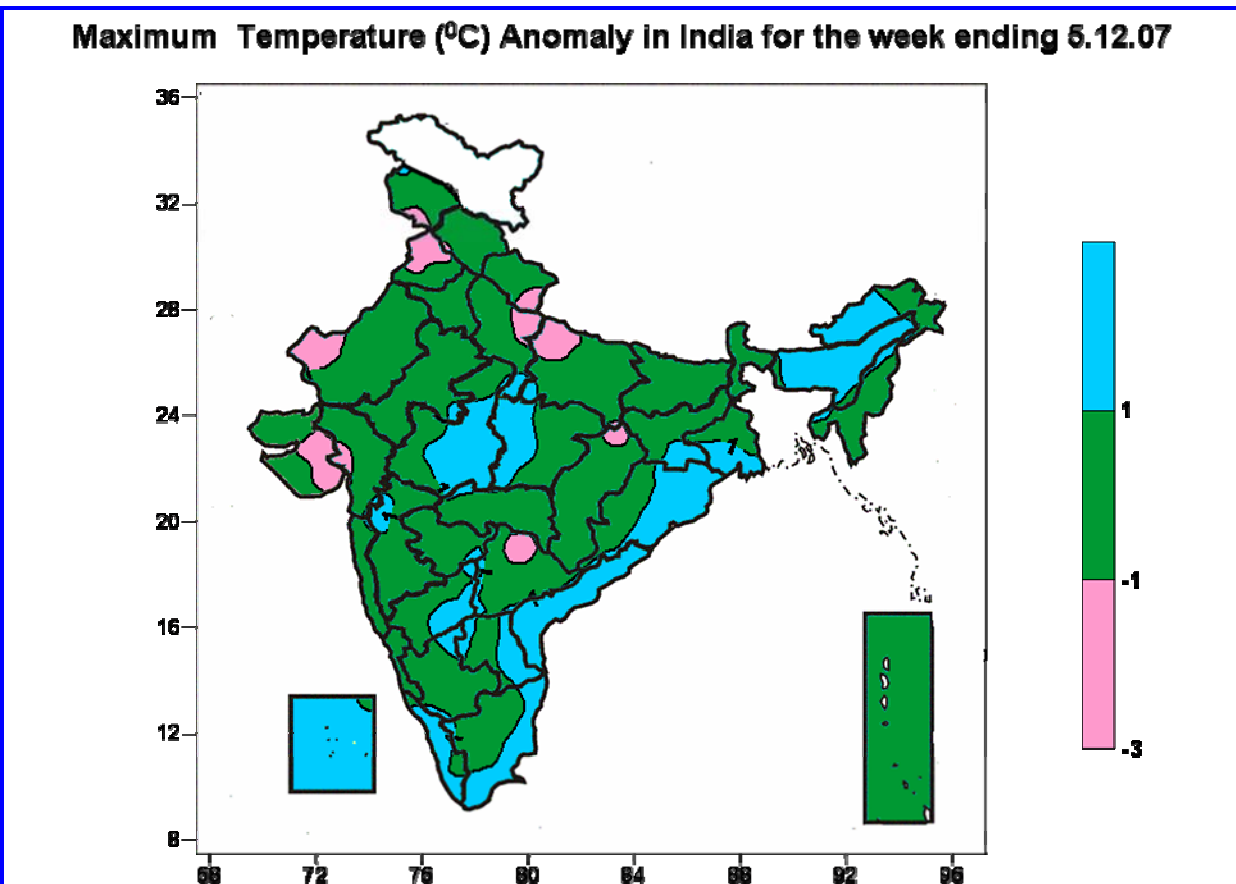
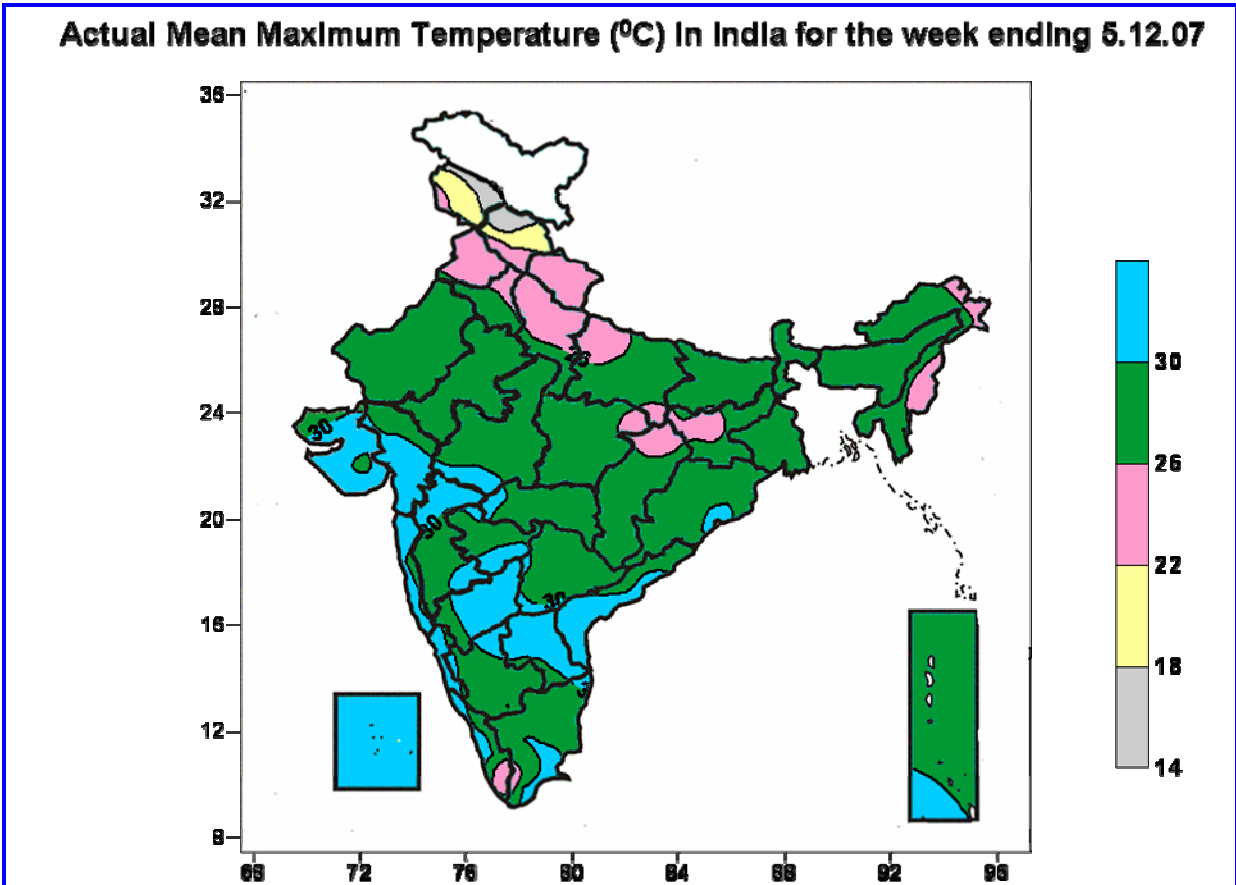
Rainfall was excess/normal in 10 and deficient/scanty in 26 out of 36 meteorological subdivisions. (Actual: 70.9 mm, Normal: 111.2 mm and Departure: -36%).

OUTLOOK FOR THE WEEK ENDING ON 12TH DECEMBER, 2007.

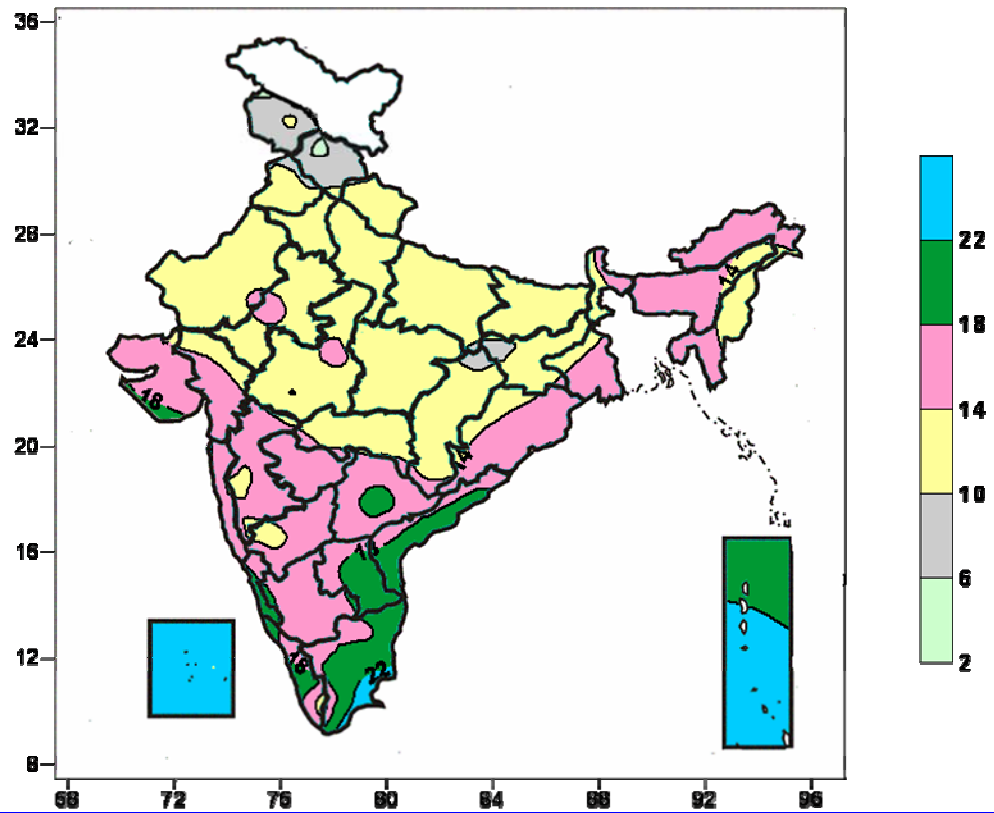
- Isolated to scattered rain/thundershowers are likely over extreme south peninsula.
- Under the influence two western disturbances, isolated to scattered precipitation is likely over western Himalayan Region and adjoining northern plains during the week.

- No significant change in night temperatures during first half of the week and rise in night temperatures by 2-3°C during second half of the week is likely over plains of northwest & adjoining central India.

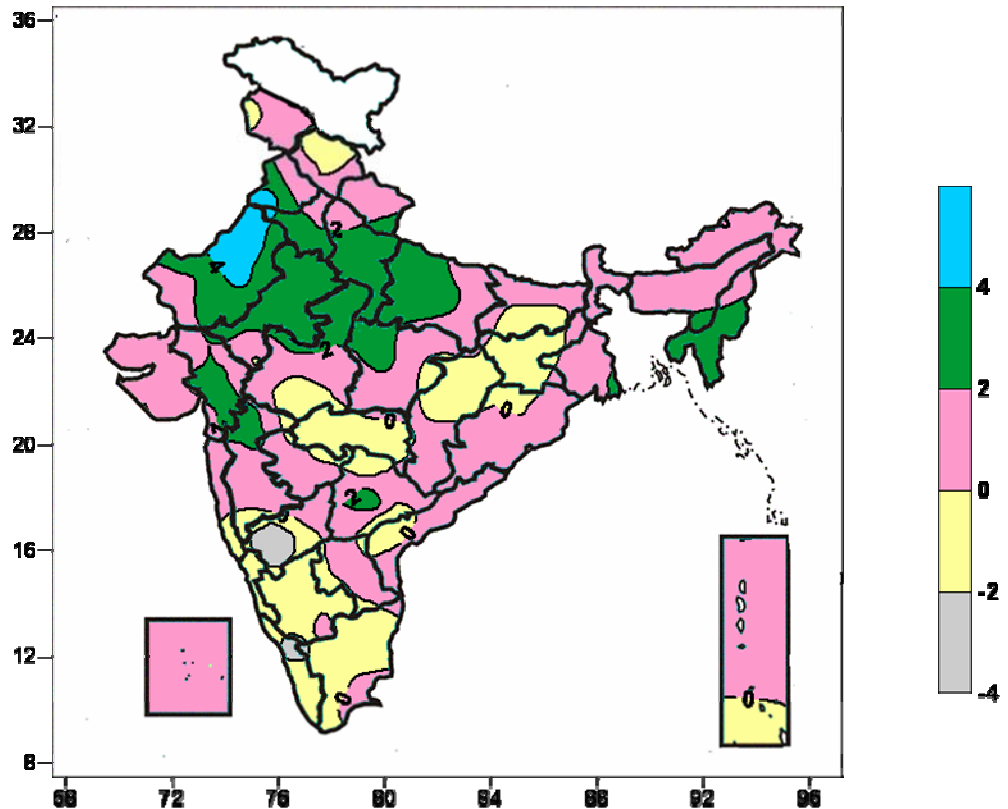
Contour maps for the week ending 5th December, 2007



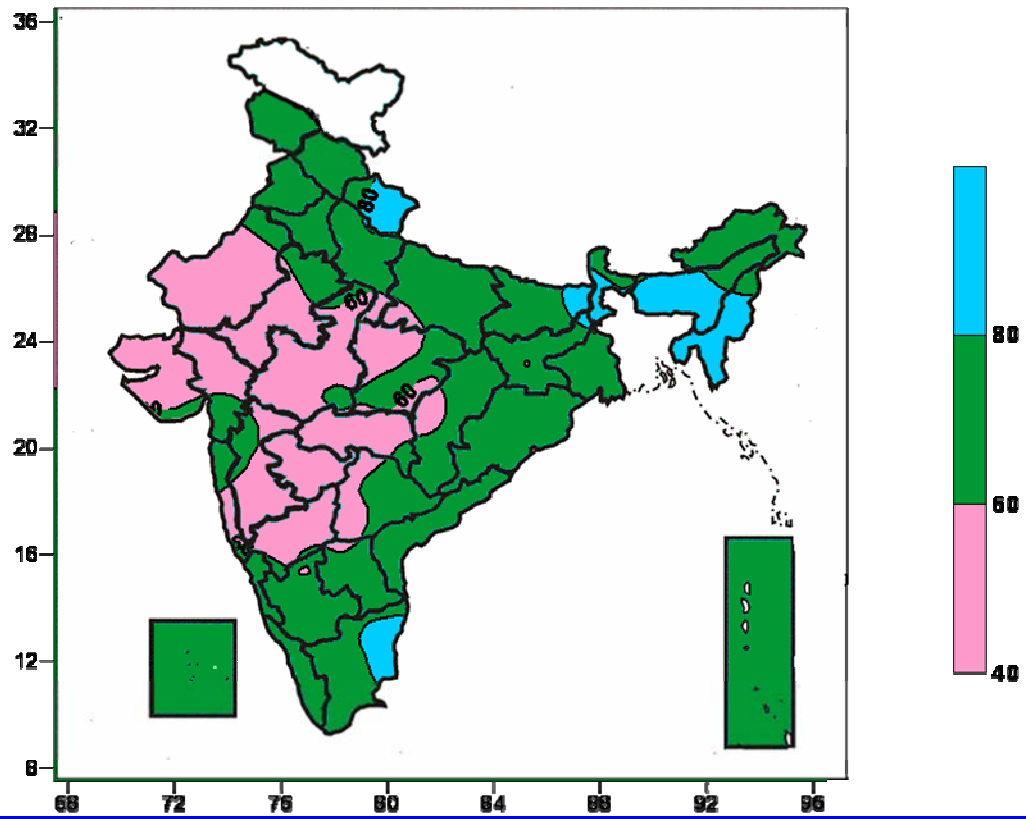
Actual Mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 5.12.07



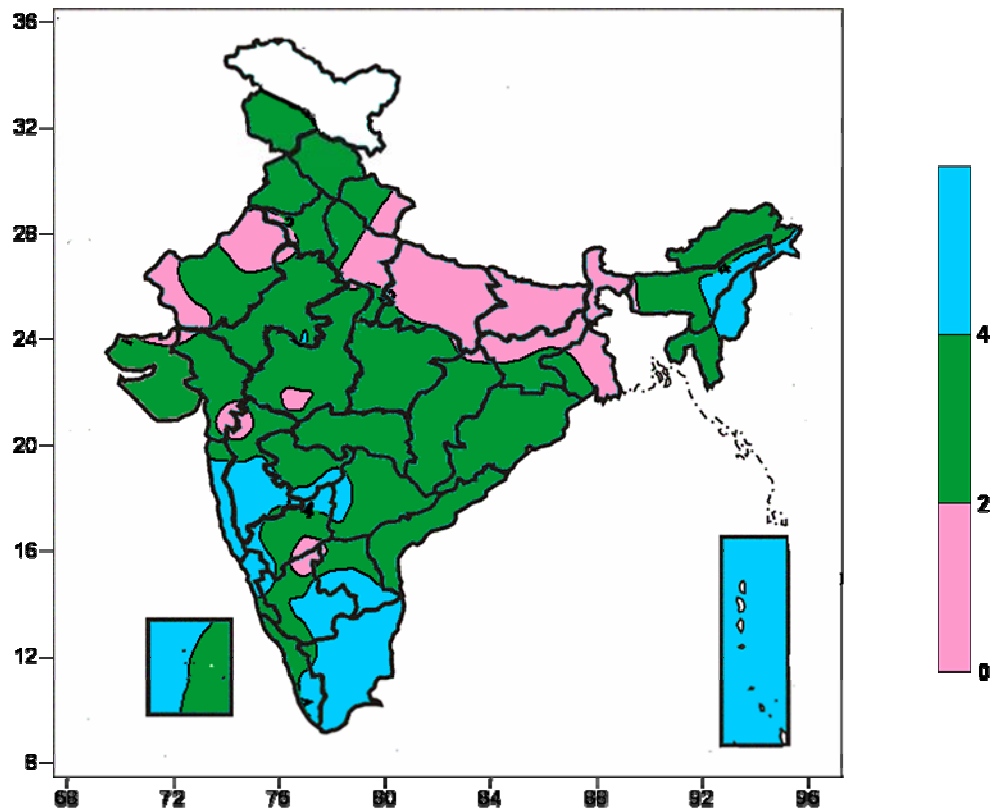
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 5.12.07

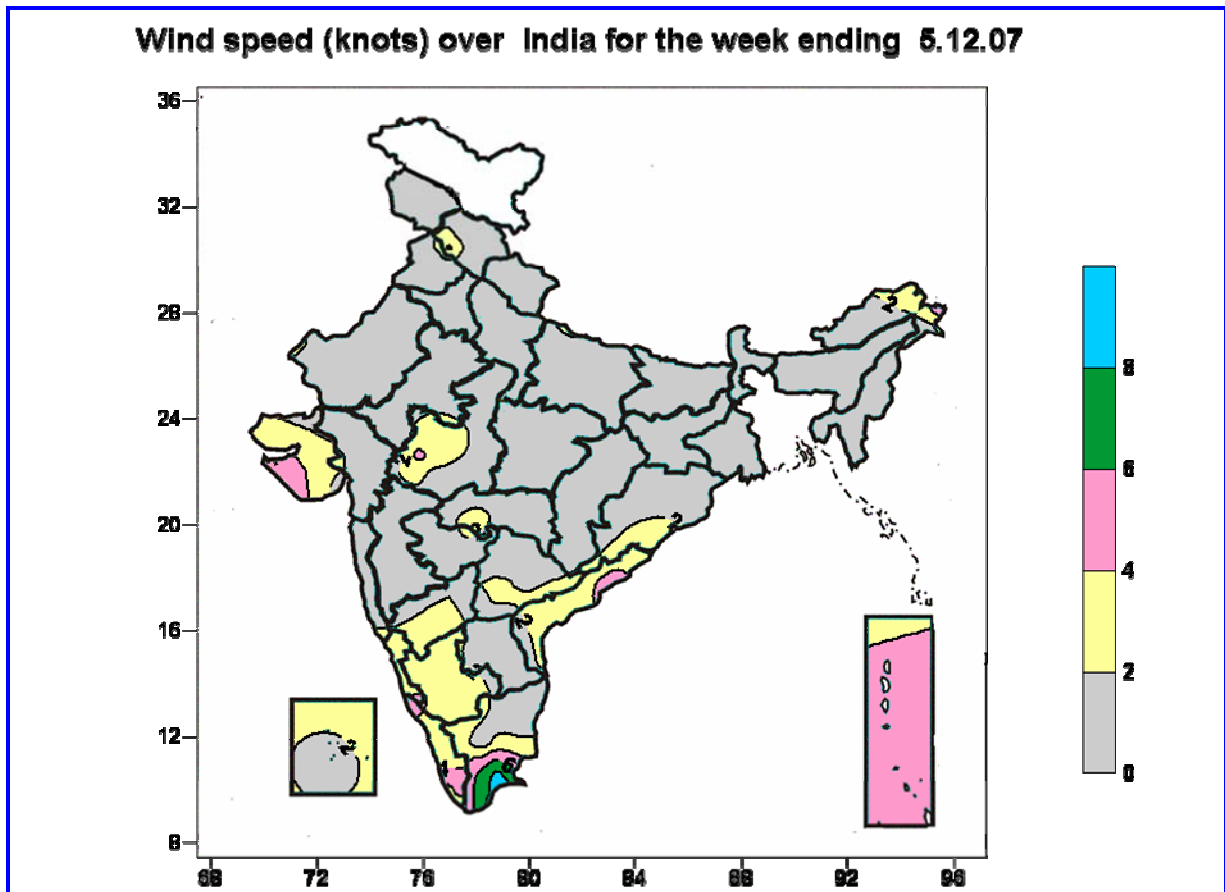


Relative Humidity (%) over India for the week ending 5.12.07



Cloud amount (okta) over India for the week ending 5.12.07





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	Early sown vegetables	Mustard	Berseem	Wheat
Sowing/Transplanting	Vegetative	Vegetative	Vegetative	Sowing
Gram	Barley	Early sown wheat		
Vegetative	Vegetative	Early vegetative / crown root initiation		
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	Sowing	Seedling / early vegetative		

Himachal Pradesh

Vegetables (Ladies finger/ Cabbage, Cauliflower)	Potato	Apple	Toria	Wheat / Barley / Gram / Oil seeds
Vegetative/ head formation Ladies finger -- Flowering/Fruiting	Sowing	New planting	Vegetative	Land preparation & sowing Early sown crops – germination / early vegetative / crown root initiation

Jammu & Kashmir

Vegetable crops	Rice	Pulses / wheat / brown sarsun	Mustard, gobe 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	Rabi pulses	Cotton	Cabbage / garlic / pea / potato
Vegetative	Vegetative	Seedling / early vegetative	Picking	Sowing
	Wheat	Autumn sugarcane	Rabi Oilseeds	Irrigated toria
	Germination	Early vegetative	Early vegetative / vegetative	Flowering / fruiting

Rajasthan

Wheat	Early sown wheat	Rabi crops(Mustard, Barley, taramira, gram)	Early sown rabi crops	Potato
Sowing	Germination	Sowing	Germination	Planting
Early sown potato	Cotton	Guar		
Sprouting	Picking	Harvesting		

Uttar Pradesh

Sugarcane	Kharif Vegetables	Winter vegetables	Rice	Toria
Cane maturity	Flowering / fruiting / maturity	Vegetative / flowering	Late Harvesting	Flowering / pod formation
Wheat	Early sown wheat	Rabi pulses	Rai , mustard	Mango
Field preparation & sowing	Seedling	Early vegetative	Early vegetative	Vegetative

Uttarakhand

Pea	Toria	Sugarcane	Potato	Kharif Rice
Pod formation	Pod formation / maturity	Maturity	Tuber growth	Harvesting
FingerMillet/ Amranthus	Mango/Litchi	Wheat		
Maturity	Vegetative	Seedling / crown root initiation		

Assam

Winter vegetables	Sugarcane	Arhar	Sali rice	Black Gram & Green Gram
Land preparation & sowing / transplanting Early sown – early vegetative / vegetative	Harvesting	Flowering / pod formation	Maturity / harvesting	Pod maturity / harvesting
Rabi crops	Wheat	Early wheat	Horticultural plants	
early vegetative / vegetative	Land preparation & sowing	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	Maize fodder	Arhar	Sugarcane	Kharif rice
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crops				
Sowing	vegetative	Vegetative	Vegetative	Maturity
Rabi oilseeds, wheat	Gram			
Sowing	sowing			

Jharkhand

Kharif rice	Potato	Vegetables (Tomato, Brinjal, Bhendi)	Wheat
Grain maturity	Planting	Early vegetative	Sowing
Pea, gram	Potato		
Early vegetative / vegetative	Early vegetative / vegetative		

Sikkim

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

West Bengal

Sugarcane	Groundnut	Arhar	Aman rice	Mustard / Rapeseed / Wheat / gram / lentil
Cane development	Pod maturity	Pod formation (Rabi arhar- sowing)	Grain maturity / harvesting	Land preparation / sowing
Early sown Mustard / Rapeseed / Wheat / gram / lentil	Rabi arhar	Potato	Sunflower	Early sown Sunflower
Germination / early vegetative	Sowing	Planting	Land preparation / sowing	Germination / early vegetative

Chattisgarh

Sugarcane	Rapeseed, Toria, Niger	Early sown mustard, Toria and niger	Kharif Rice	Tomato, Brinjal, Chilli
Vegetative	Germination / early vegetative Toria - vegetative	Germination / early vegetative	Grain maturity / harvesting	Vegetative / flowering
Rabi crops	Potato	Wheat		
Land preparation & sowing	Land preparation & planting	Land preparation & sowing		

Gujarat

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

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	early vegetative	Germination / early vegetative	Pod formation
Kharif Cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Irrigated cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Rabi potato	Rabi onion	Gram (Madhya Maharashtra, Marathwada & Vidarbha)
Boll maturity / picking	Boll maturity / picking	Sprouting / early vegetative	Planting	Seedling/early vegetative
Wheat (Konkan, Madhya Maharashtra, Marathwada &	Maize (Madhya Maharashtra, Marathwada &			

Vidarbha)	Vidarbha)			
Germination / early vegetative / crown root initiation	Germination/early vegetative			

Madhya Pradesh

Sugarcane	Barseem	Rabi crops (linseed, lentil, gram, mustard)	Rabi vegetables (cabbage, cauliflower, onion)	Kharif Cotton
Grand growth	Sowing	germination / early vegetative	Nursery sowing / Early sown crops are at germination stage	Picking
Pea	Wheat	Early sown wheat		
Sowing	Sowing	Germination / crown root initiation		

Orissa

Kharif vegetables	Kharif rice	Sugarcane, Mung & urd	Arhar	Rabi oilseeds
Vegetative / fruiting	Maturity	Vegetative	Flowering / pod formation	Sowing

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
