

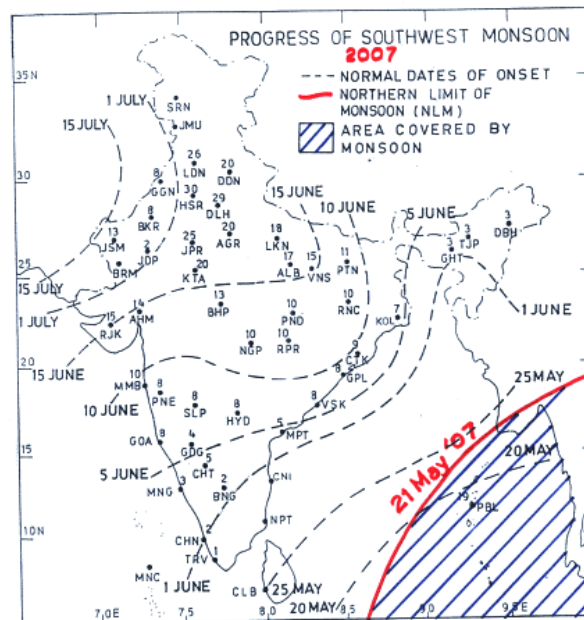


Summary of Agromet Advisory Services for different States of the country
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Thursday, 24th May, 2007

(For the period 24th May to 28th May, 2007)

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



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

Punjab

Light rainfall has occurred at isolated places on 22nd and 23rd May. Weather remained mainly dry on rest days. Rain/thundershowers are likely at isolated places over the State.

Advisories

- As there was no significant rainfall in the State during last week and rain/thundershowers are likely at isolated places over the State, apply irrigation to **summer sunflower**, **sugarcane**, and **Horticultural** crops.
- Complete the sowing of **cotton** as early as possible as late sowing may lead to increased attack of **bollworm**.
- Weeding and intercultural operations may be continued in **sugarcane** and **sunflower** crops.
- Continue nursery sowing of **rice** using recommended varieties. Prefer varieties i.e. PR-118,115,117 etc. and short duration and less water consuming varieties like PUSA – 1121 for raising rice nursery. Avoid Pusa-44 as it requires more water.
- Sowing of **kharif groundnut** may be undertaken. Rainfed variety i.e. 548 may be sown on priority basis.

Haryana

Rainfall occurred at isolated places on 22nd and 23rd May. Weather remained mainly dry on rest days of the period.

Mainly dry weather is likely over the State during next 24 hrs. Isolated duststorm/thunderstorm is likely

thereafter.

Advisories

- As there was no significant rainfall in most of the districts during last week and mainly dry weather is likely over the State during next 24 hrs. and isolated duststorm/thunderstorm is likely thereafter over the State, apply irrigation to **summer sunflower, sugarcane, and Horticultural crops**. Apply irrigation to the crops depending on the profile stored soil moisture in Hissar district as there was excess rainfall during last week.
- Complete the sowing of **cotton** as early as possible as late sowing may lead to increased attack of **bollworm**.
- Weeding and intercultural operations may be continued in **sugarcane** and **sunflower** crops.
- Start raising of **rice** nursery. Choose varieties like Jaya, PR 106, HKR -120, Palman 579, Pusa 370, Haryana Basmati -1 and HBC -19 which are recommended high yielding dwarf varieties of rice.
- Sowing of **kharif groundnut** may be undertaken. Rainfed variety i.e. 548 may be sown on priority basis.

Rajasthan

Duststorm / thunderstorm with rain occurred with hailstorm at isolated places in Bikaner / Jaipur / Kota / Jodhpur divisions and weather was mainly dry in rest divisions of the State.

Isolated duststorm is likely over the State.

Advisories

- Dust storm/thunder storm occurred at isolated places in Bikaner, Jaipur, Kota and Jodhpur divisions during last week and isolated duststorm is likely to occur for the next three days over the State. Under the circumstances, apply frequent irrigation to **moong** and early sown **cotton** crop.
- Undertake summer ploughing in order to conserve moisture during summer showers and to control soil borne pests and diseases.
- Cutting of fodder may be continued.
- Undertake earthing up in **desi** and **American cotton** in irrigated areas to keep the field weed free.

Uttar Pradesh

Weather was mainly dry in all divisions of the State on 21st and 23rd May. Rain occurred at isolated places in Jhansi and weather was mainly dry in remaining divisions of the State on 22nd May.

Mainly dry weather during next 24 hours and isolated duststorm/thunderstorm is likely thereafter over West U.P. Isolated rain/thundershowers are likely over East U.P.

Advisories

- Mainly dry condition prevailed in most of the districts over the State during last week and isolated rain/thunderstorm is likely over East Uttar Pradesh for the next three days and mainly dry weather is likely during next 24 hours and isolated duststorm/thunderstorm is likely thereafter over West U.P. Under the circumstances, apply irrigation to **summer maize, sunflower, pulses, and vegetable crops**. Apply light irrigation depending on soil profile stored moisture in Azamgarh, Bahraich, Maharajganj, Sitapur, and Shahjahanpur districts as there was excess rainfall during last week.
- To control **borer** insect in sown **sugarcane**, spray the solution of Endosulphon 35 EC @ 1.25 litre/ha in water.
- To save fruits of **Mango** against fruitfall spray Naphthalene Acetic Acid 15 ppm or 4ml Planofix / 9 lit. water and to control internal rotten disease spray 5-6 g Borax per litre of water.
- Field preparation and sowing of **maize** may be continued.

Himachal Pradesh

Precipitation occurred at a few places in the state.

Rain / thundershowers are likely at isolated places over the State.

Advisories

- As rain / thundershowers are likely at isolated places over the State for next three days, apply irrigation to the **potato and onion**.
- There is mild chance of attack of powdery mildew in **vegetables**. If attack crosses economic threshold level, spray Carbendazime 0.5 % on a non-rainy day to control the disease.
- Continue land preparation and nursery sowing and transplanting of **cauliflower and cabbage** in low and mid hills.
- Start land preparation and nursery sowing of **rice**. Before growing the nursery, 3.7 kg of seeds should be soaked in 25 litres of water having 2.5 g common salt. Discard the floated seeds and wash rest of the seeds properly, dry in shade and sow after treatment with Bavistin @ 2.5 g / kg of seeds. In seed bed of size 10 cm high of 8x1.25 m dimension apply 20-30 kg FYM, 65 g urea and 150 g super phosphate per bed and mix it thoroughly in the upper 5 cm layer of the bed. Sow 400 g good quality treated seeds in each bed, in rows, 10 cm apart. Four such beds are sufficient for one Bigha. The nursery should be sown four weeks before the time of transplanting. Tall and dwarf varieties should be sown between 24th May to 8th June and Basmati varieties should be sown between 24th May to 4th June.
- Start preparation of land for sowing of **maize** by ploughing and mixing biological manures properly.

Uttarakhand

Light to moderate rain was recorded at many places on 17th and 19th May and moderate rain was recorded at isolated places on 18th May while very light to light rain was recorded at isolated places (at higher reaches) during rest of the week. Sky remained partly cloudy to generally cloudy during the period.

Rain/thundershowers are likely at isolated places over the State

Advisories

- Light to moderate rain was recorded at many places and there was excess rainfall in Almora, Nainital, and Uttamsinghnagar districts during last week, There was no significant rainfall during last week in the remaining districts and rain/thundershowers are likely at isolated places over the State for next three days. Under the circumstances, apply irrigation to **mango, litchi, apple, potato and sugarcane** crops depending on profile stored soil moisture.
- Complete harvesting of matured crops of **wheat** in bright sunny days.
- Maintain cleanliness in the **orchards**. Continue mulching to conserve soil moisture and to prevent weeds in apple and potato.

Jammu & Kashmir

Light to moderate rain /thundershowers occurred at isolated places on 21st May and few places on 23rd May. Weather remained mainly dry on 20th May over J&K state.

Rain/thundershowers are likely at a few places over Jammu & Kashmir state.

Advisories

- There was no significant rainfall during last week and rain/thundershowers is likely to occur at a few places for the next three days. Under the circumstances, apply irrigation to **wheat, vegetable and fruit crops** in Kashmir division.
- Undertake summer ploughing in the field after the harvest of **wheat** crop in Jammu division.
- Continue sowing of **maize** in mid and high altitude areas. Select among GS-2, Vijay, Mansar, C-5 and C-8 for sowing. Undertake seed treatment with *Azospirillum* before sowing.
- There are mild chances of occurrence of **fruit borer** in **tomato, brinjal, and bhindi** crops. Monitor the crops for the pest and if the pest population crosses ETL, spray the crop with Endosulphan @ 0.07% or Carboryl @ 0.1% or Dichlorvos @ 0.03% on a non rainy day to control the pest.

- Undertake land preparation and sowing of **rice** in the nursery in Jammu and Kashmir divisions. Undertake seed treatment with *Azospirillum* before sowing. Select among IET-1410, K-39, Ratna, PC-19, jaya, PR-8585, Basmati-370 and Ranbir Basmati for Jammu region and K39, Chenab, Jhelura, China 1039 and Shalimar rice I for Kashmir region.
- Undertake mulching in orchards in order to conserve moisture in the field. This will also control weeds. White wash bottom portion of trees to prevent termite attack.

Delhi

Weather remained mainly dry.

Mainly dry weather is likely over the state during next 24 hrs. Isolated dust storm / thunderstorm is likely thereafter.

Advisories

- As mainly dry weather is likely over the state during next 24 hrs and isolated dust storm / thunderstorm is likely thereafter, apply irrigation to **vegetables**.
- Prepare land and perform sowing of **arhar** and nursery sowing of **early varieties of cauliflower**.
- Select varieties from Upas – 120 and Manak for sowing of **arhar**.
- Prepare land for nursery sowing of **rice**. Seed bed should be prepared of size of 10 m length and 1.25 m in width at 30 cm gap between beds. In each seed bed 30 kg cow dung / compost, 80 gm urea, 80 gm SSP and 40 gm MoP are to be applied. Well germinated seeds are to be sown @ 650 to 1000 gm per bed. Select varieties from PR – 109, Jaya and HKR – 120 for sowing.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Rain / thundershowers occurred at isolated places in the State on 22nd & 23rd May. Mainly dry weather prevailed on 21st May.

Isolated rain /thundershowers are likely over the State.

Advisories

- Farmers are advised to take up ploughing and arrange for seeds and inputs as the onset of monsoon is expected within a short period.
- There was no significant rainfall in most of the districts during last week and dry weather is likely to prevail over the State for the next three days. Under the circumstances, apply irrigation to plantation crops viz., **coconut, arecanut, rubber and banana**.
- Attack of **stem borer** and **gall midge** is reported in *virippu* rice nursery. Spray Phosphamidon @ 0.25 ml/litre to control the pests.
- Undertake land preparation and application of organic manures for transplanting *virippu* rice seedlings.
- Attack of **mahali disease, root grub, spindle bug and mite** is reported in **arecanut**. Spray 1% Bordeaux mixture to control the mahali disease. Drench with Chlorpyrifos @ 0.04% in the soil around trunk to control root grub. Spray Carbaryl 50% WP @ 4 g/litre of water to control spindle bug. Spray Dimethoate @ 1.6 ml/liter of water to control mite.
- Attack of **Rhinoceros beetle, red palm weevil, bud rot and Eriophyid mite** is reported in **coconut**. Fill leaf axil with 25 gm Sevidol 8G and fine sand 200 g to control rhinoceros beetle and red palm weevil. Spray 1% Bordeaux mixture to control bud rot. Spray 2% neem oil and garlic emulsion may be done in the crown and bunches to control Eriophyid mite.
- Attack of **pseudostem weevil** is reported in **banana**. In endemic area, first remove the outer sheath of all infested and uninfested plants and spray Quinalphos @ 0.05% or Chlorpyrifos @ 0.03% or Carbaryl @

0.2%. Spraying / drenching may be done on leaf axils, rhizome, surrounding soil and all the bore holes of pseudo stem made by larvae. Repeat the treatment after three weeks if infestation persists.

Tamilnadu

Rainfall occurred at one or two places over the State on 21st, 22nd and 23rd May.

Isolated rain / thundershowers are likely over the State.

Advisories

- There was no significant rainfall during last week and rain/ thundershowers is likely to occur at isolated places only for the next three days. Under the circumstances, apply irrigation to **sunflower**, **maize**, **sugarcane**, **cotton** and **groundnut** in view of dry weather conditions.
- Continue land preparation and sowing of **kuruvai rice** in nursery. Undertake seed treatment with *Azospirillum* before sowing.
- Undertake spraying of NAA @ 40 ppm in **cotton** to prevent flower dropping and to enhance boll setting.
- Monitor **maize** for **stem borer** and **aphids** attack and if the pests population crosses ETL, undertake spraying of Carbaryl 50 WP @ 400 g/acre.
- Undertake planting of **late sugarcane**. Adopt 30,000 single budded setts for planting one acre. Undertake sett treatment with *Azospirillum* before planting.
- Monitor **early sugarcane** for **shoot borer** and if the pest population crosses ETL, release egg parasite, viz., *Trichogramma* @ 1 cc/acre. Repeat after 15 days.

Karnataka

On 21st May, rainfall occurred at isolated places over South Interior Karnataka, mainly dry weather prevailed over Coastal Karnataka and dry weather prevailed over North Interior Karnataka. On 22nd May, rainfall occurred at isolated places over Coastal Karnataka & South Interior Karnataka and dry weather prevailed over North Interior Karnataka. On 23rd May, rainfall occurred at isolated places over the State.

Isolated rain / thundershowers are likely over the State.

Advisories

- Apply irrigation to summer **sugarcane** as there was no rainfall during last week over the State and dry weather is likely to prevail for the next three days.
- Complete harvesting of **sunflower** on bright sunny days.
- Monitor **sugarcane** for **wooly aphids** in Mysore, Mandya and Hassan districts and if the pest population crosses ETL, release *Dipha* sp, adopt wider spacing, inter-cropping with soyabean and pulses of short duration.
- Continue sowing of **kharif jowar**, **maize**, **groundnut** and **sunflower**. Undertake seed treatment with chemicals before sowing.

Andhra Pradesh

Isolated rain occurred over coastal Andhra Pradesh during last week, over Telangana on 17th, 19th May and Rayalseema on 18th, 19th, 21st to 23rd May. Generally dry weather prevailed over rest of the State during the remaining days of the week.

Rain/ thundershowers are likely at a few places over the State.

Advisories

- Severe heat wave/heat wave conditions prevailed over Coastal Andhra Pradesh during last week and likely to abate in the next 1-2 days. As the crops have been harvested and nursery raising of **rice** is undertaken, there will be lesser crop damage.

- Continue summer ploughing after the harvesting of *rabi* crops in order to conserve moisture during summer showers.
- Continue land preparation and sowing of nursery for *kharif* rice.

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

Assam

Moderate rain occurred at most places on 23rd May, light to moderate rain occurred at many places on 22nd May and at a few places on 21st May with isolated heavy to very heavy falls on 23rd May and isolated heavy falls on 21st & 22nd May over the State.

Rain / thundershowers are likely at many places over the State during next 24 hours and scattered thereafter.

Advisories

- As rain / thundershowers are likely at many places over the State during next 24 hours and scattered thereafter, postpone irrigation, fertilizer application and intercultural operation to the crops.
- Maintain 3 – 5 cm water in field of *early* and *regular ahu* rice.
- Since *maize* crop is highly susceptible to water logging, provision for surface drainage should be made in the field.
- Mild incidence of *Brown Plant Hopper*, *Yellow stem borer* and *blast* and *sheath blight* diseases in *early ahu* rice and *Hispa* in *regular ahu* rice is reported in a few localities.
- Monitor attack of *Brown Plant Hopper* and *blast* and *sheath blight* diseases in *early ahu* rice. If attack crosses economic threshold level, to control *Brown Plant Hopper* insecticides like Chloropyrifos 20 E.C. @ 1.5 ml per litre of water or Phosphamidon @ 1ml per litre of water is to be applied. For control of *Blast* diseases as soon as 1 or 2 spots on leaf are seen Hinosan 50 E.C. @ 1ml per litre of water or Blitox @ 4gm per litre of water is to be applied and spraying is to be continued at an interval of 10-15 days till the disease is controlled. For control of *sheath blight* diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.
- Monitor the infestation of *Hispa* in *regular ahu* rice and if population exceeds economic threshold level, apply Monochrotophos 40 EC @ 1.5 ml per litre of water or Chloropyrifos 20 EC @ 2 ml per litre of water when one adult per hill is noticed.
- Apply plant protection measures after current spells of rain.
- There is mild chance of attack of *hairy caterpillar*, *smilopper*, *yellow mite* and *stem weevil* in *jute*. If insect population exceeds economic threshold level, apply Fenitrothion 50 EC @ 1 ml in one litre of water or Endosulphan 35 EC @ 2 ml per litre of water. Apply plant protection measures after current spells of rain.
- There is mild chance of attack of stem borer in *maize*. If insect population exceeds economic threshold level, apply Fenitrothion 50 EC @ 2 ml per litre of water after current spells of rain.
- Prepare land and continue transplanting of *regular ahu* rice.

Arunachal Pradesh

Sky remained cloudy over the State. Moderate rain / thundershower occurred at most places on 23rd May with heavy to very heavy falls at one or two places. Rain / thundershowers occurred at many places on 22nd May and at a few places on 21st May.

Rain/thundershowers are likely at many places over the State during next 24 hours and scattered thereafter.

Warning: Isolated heavy falls is likely over the State during next 48 hrs.

Advisories

- Rain / thundershowers are likely at many places with isolated heavy rainfall over the State during next 24 hours and scattered thereafter, postpone irrigation to summer vegetables, *millet*, *maize*, *jhum* paddy and *ginger* crops. Arrange for drainage of excess water to avoid water logging.

- Continue weeding, intercultural operations in **millet** and **ginger** after current spells of rain.

Bihar

Light to moderate rain occurred at a few places.

Isolated rain/thundershowers are likely over the State.

Advisories

- As there was no significant rainfall in the most of the districts last week apply irrigation to the crops and rain/thundershowers are likely at isolated places over the State, apply irrigation to **vegetables**, **summer maize**, **green gram**, **sugarcane** and **sesamum**. As there was excess rainfall in Bhagalpur district, apply irrigation depending on the soil profile stored moisture.
- Monitor the crop for **Red spider mite** and **powdery mildew** in **vegetable** crops & if exceeds economic threshold level, for effective control spray Sulphur dust @ 3.0 Kg/ha or Dycofol @ 1 lit/ ha.
- Maintain 3– 5 cm water in the **boro rice** field.
- Continue to give regular irrigation in **mango orchards** and monitor the crop for **mealy bug** or **hopper** & if exceeds economic threshold level, then spray with Carboryl @ 2g/litre of water.

Jharkhand

Rain or thundershowers occurred at isolated places.

Isolated rain /thundershowers are likely over the State.

Warning: Isolated thunder squall is likely over the State. Heat wave conditions may prevail at some places.

Advisories

- As there was no significant rainfall in most of the districts during last week and heat wave conditions may prevail at some places, apply light frequent irrigation to **summer vegetables**.
- Maintain 3 – 5 cm water in the **boro** rice field.
- Apply regular irrigation in **mango & litchi**. To prevent from **powdery mildew** of small fruits in **Mango** and **Litchi**, spray sulfex @ 2gm/litre of water.

Sikkim

Sky remained generally cloudy during the period. Very heavy rainfall occurred over Gangtok on 23rd May, moderate to nearly heavy rainfall occurred over many places from 20th to 23rd May and very light rain occurred at a few places during rest of the period over East Sikkim. Rainfall was excess during the period.

Rain/thundershowers are likely at a few places over the State.

Warning: Isolated thunder squall is likely over the State during next 48 hours.

Advisories

- Epidemic infestation of **semilooper** has been reported in **maize**. Spray Trisophor @ 1 ml/litre on a non rainy day to control the pest and to minimize the damage.
- There was excess rainfall over the State during last week and rain/ thundershowers is likely to occur at a few places for the next three days. Under the circumstances, postpone irrigation to **large cardamom**, **orange**, **maize** and **ginger**.
- Make arrangements to prevent the crops from lodging due to squall.
- Undertake earthing up to keep the field weed free and application of fertilizers in **kharif vegetables**, **large cardamom**, **orange**, **maize** and **ginger** on a non rainy day.
- Monitor **ginger** for **rhizome rot** and **bacterial wilt** and rouge out the affected plants and destroy completely to

prevent further damage.

- Continue sowing of **rice** in the nursery. Undertake seed treatment with *Azospirillum* before sowing.
- Monitor **orange** for **leaf miner** and **trunk borer**. Spray neem based insecticide on a non rainy day to control leaf miner. Plug trunk borer holes with cotton swabbed with kerosene and later with mud to prevent trunk borer.

West Bengal

During the said period light to moderate rain occurred at most places with rather heavy to heavy rain at an isolated places on 21st May, moderate to rather heavy rain at most places with heavy rain at a few places on 22nd occurred over Sub Himalayan West Bengal.

But, moderate to rather heavy rain occurred at an isolated places on 21st, very light to light rain at many places with moderate to rather heavy rain at a few places on 22nd May and light to moderate rain at a few places over Gangetic West Bengal.

Rain / thundershowers are likely at a few places over the State.

Advisories

- As there was excess rain in most of the districts of the State except Birbhum, Nadia, Purulia and Dinajpur (S) during last week and rain / thundershowers are likely at a few places over the state for next three days, postpone irrigation to the crops. Apply irrigation in above mentioned districts of the State to **sugarcane**, **sesamum**, **green gram** and early sown **jute**.
- Complete harvesting of already matured crops of **boro rice** on bright sunny days. Harvest the already matured crops of **groundnut** and **sesamum** on bright sunny days.
- Apply 50 kg N / ha as top dressing on a non-rainy day at 80 – 90 days after planting of **sugarcane** and make ridges.
- Prepare land on a non-rainy day for sowing of **jute**. Plough the land thoroughly for 4 – 5 times followed by laddering. Apply compost manure @ 7.5 – 12.5 tonnes / ha. Apply N, P₂O₅ and K₂O each @ 25 kg / ha also before last land preparation. Select improved variety from Shyamali, Sonali & Sobujsona etc. for *C. capsularis* and Chaitali, Basudev, Baisakhi, Nabin etc. for *C. olitorius* for sowing. Seed rate is 7.5 kg per ha for *C. capsularis* and 5 kg per ha for *C. olitorius*. Seeds may be treated with 1 gm carbendazime per kg of seeds before sowing. Sow the seeds at a row spacing of 8 – 10" to get good yield.
- Undertake preparation of land for sowing of **aus rice**. Select varieties from HYVs like IET-826, CR- 126-42-1, IR-36, IET-2233, IET-1444 (Rosi), Culture-1 etc. Seed rate is 75-100 kg / ha in case of broadcasting and 62-75 kg / ha in case of row sowing. Treat the seeds with Carbendazim 50% @ 1 gm / kg seeds.
- Prepare land on a non-rainy with the advantage of recent rain and start sowing of **Groundnut**. Select varieties from improved varieties like JL-24, JL-11, A-K-12-24. Seedrate is 110-125 kg / ha. Apply 20-25 carts compost, 15 kg N, 30 kg P₂O₅ and 45 kg K₂O at the time of land preparation. Line to line distance is 12 inches and seed to seed distance is 6 inches.
- **Arhar** can be grown in high land where there is no water logging. Prepare land on a non-rainy with the advantage of recent rain and start sowing. Select varieties from high yielding varieties like B-7, UPS-A-120 etc. Seedrate is 20-25 kg / ha. Apply 20-25 carts compost, 20 kg N and 40 kg P₂O₅ at the time of land preparation. Maintain line to line distance of 30 inches for sowing.

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

Gujarat

Weather remained dry.

Mainly dry weather is likely over the State.

Advisories

- As there was no significant rain during last few weeks in the State and mainly dry weather will prevail for next three days, apply irrigation to **sugarcane** to bring soil moisture to field capacity.

- Drain out water from the **rice** field 10 – 15 days before harvesting. Start harvesting of already matured crops on bright sunny days.
- Conserve moisture in the field of **summer bajra** as the crops are at grain maturity stage.
- Harvest already matured crops of **summer groundnut** and **summer bajra** on bright sunny days.

Chhattisgarh

Isolated rain / thundershowers occurred in all divisions of the state.

Isolated rain / thundershower is likely to occur over the state.

Advisories

- As there was no significant rain during last few weeks in most of the districts of the State and isolated rain / thundershower is likely to occur over the state for next three days, apply irrigation to **sugarcane, vegetables, sesamum, green gram** and **maize** crops.
- Remove water from **summer rice** field 10 – 15 days before harvesting. Start harvesting of already matured crops on bright sunny days
- Apply 75 kg N / ha as top dressing at 45 days after planting of **sugarcane**.
- Continue harvesting of already matured crops of **sunflower, groundnut** and **sesame**.

Maharashtra

Rain occurred at a few places in konkan & Madhya Maharashtra. Rain also occurred at isolated places in Vidarbha on 21st May. Mainly dry weather prevailed over rest of the State.

Isolated rain / thundershowers are likely over Konkan & Goa, south Madhya Maharashtra and Vidarbha. Mainly dry weather is likely over rest of the State.

Advisories

- As there was no significant rain during last few weeks over the State and rain / thundershowers are likely at isolated places over south Madhya Maharashtra and Vidarbha and mainly dry weather is likely over rest of the State for next three days, apply irrigation to **sugarcane (Pre-seasonal), summer groundnut, summer sunflower, summer maize, sugarcane (Suru)** & early sown irrigated cotton.
- Complete harvesting of matured crop of **groundnut** in Konkan, Pune, Latur and Amravati on bright sunny days.
- Maintain 3 – 5 cm water in **summer rice** field in Kolhapur and Vidarbha. Third dose of 40 kg Nitrogen / ha may be applied after 60 days from transplanting in Vidarbha. Use 1 kg Neem cake powder in 6 kg urea at the time of above application. Water may be drained out before fertilizer application & maintain water level after 2 days.
- Drain out water from **summer rice** field 10 – 15 days before harvesting of matured crops. Harvest already matured crops in Konkan and Kolhapur.
- A dose of 136 kg Nitrogen, 85 kg Phosphorus & 85 kg Potash / ha may be applied after earthing up in **Sugarcane (Preseasonal)**.
- Apply last dose of 100 kg Nitrogen & 55 kg Phosphorus / ha if sufficient water is available & undertake earthing up in **Sugarcane (Suru)**.
- Mild incidence of **White Woolly Aphid** in Pune, Latur and Aurangabad division and **white fly** in Latur Division in Sugarcane (Preseasonal) is reported.
- Monitor the crop for white woolly aphids in **Sugarcane (Preseasonal)** & if exceeds economic threshold level, for effective control spray 500 ml endosulphan 35 % + 1000 ml metasystox & 500 ml Stikar or 500 gm detergent powder / ha in 500 liters of water. For the biological control of white woolly aphids, release 25000 larvae of *Krysoperla Carnea* or *Dipha Aphidivhora* / ha as predator after 15 days from the above dose.

- Monitor crop for White fly in **Sugarcane (Preseasonal)** & if exceeds economic threshold level, spray Methyl dimeton @ 2000 ml or 36 % WSC Monocrotophos @ 1400 ml / ha in 500 liters water.
- This is the time for sowing of **irrigated Cotton**. Select a variety from high yielding varieties like LRH-5166, JLH-168 & hybrid varieties like phule-492, phule-388, Sankar-6 & 10, PKV-4 & 5. Seeds may be treated with 250 gm Azotobacter / 10 kg seeds before sowing. Sowing may be done at 90 X 90 cm in medium, at 120 X 90 cm distance in black cotton soil for hybrid variety and at 90 X 90 cm for high yielding variety. 20 kg Nitrogen, 50 kg P₂O₅ & 50 kg K₂O / ha may be applied at the time of sowing.

Madhya Pradesh

Rainfall occurred at a few places at South East M. P. on 22nd May, at isolated places in East and North West M.P. on 21st May, at North M.P. on 22nd May. Dry weather prevailed over rest of the State on remaining days.

Mainly dry weather is likely over the State.

Advisories

- Apply irrigation to **sugarcane** as there was no significant rainfall during last week in most of the districts except in Chhattarpur and Narsinghpur in East Madhya Pradesh and in Shajapur in West Madhya Pradesh and dry weather is likely to prevail over the State for the next three days. Apply irrigation depending upon soil profile stored moisture in the above mentioned districts.
- Conserve moisture in **summer moong** as the crop is now at maturity stage.
- Monitor **sugarcane** for **Chempa, Pyrilla** and **scale** insects and if the pests population crosses ETL, spray Malathion 50 EC or Endosulphan 35 EC @ 1.25 litres/ha to control the pests.
- Undertake earthing up in **sugarcane** to keep the field weed free.

Orissa

Rain fall occurred at few places over the State on 21st May and isolated places during remaining days.

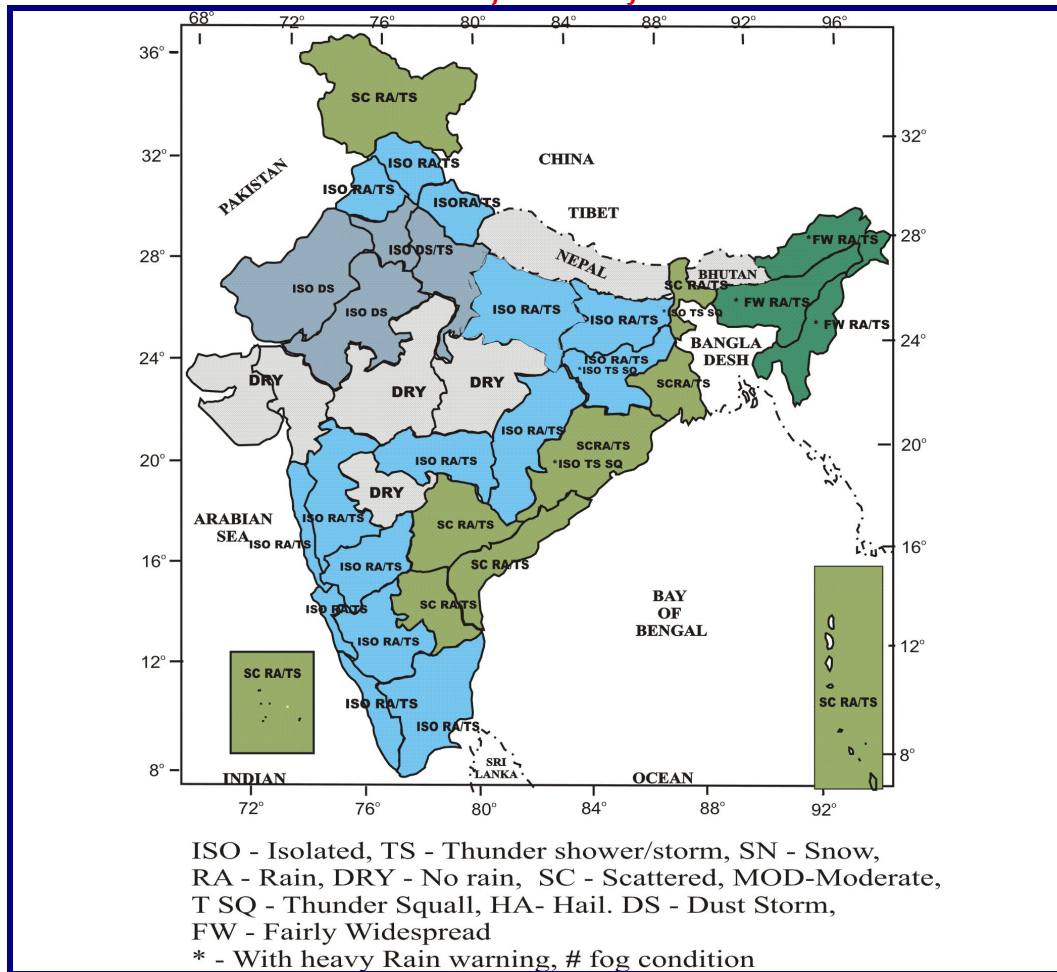
Rain or thunder showers likely to occur at few places over the State.

Warning: Isolated thunder squall is likely over the State.

Advisories

- There was excess rainfall in Balasore, Bhadrak, Cuttack, Gajapati, Ganjam, Jagatsinghpur, Jajpur, Kendrapara, Khurda, and Puri districts during last week and rain or thundershowers are likely to occur at a few places over the State, postpone irrigation to **vegetables, sugarcane, early sown summer groundnut and pulses**. Apply irrigation in the remaining districts.
- Complete harvesting of **Dalua rice**.
- Continue land preparation and sowing of **jute**. Sow the jute seeds of variety JRO 524

Forecast Map
Valid upto 27th May 07



Salient weather features for the week ending 23/05/07

MONSOON WATCH

Southwest monsoon has further advanced into some more parts of Southeast Bay of Bengal, some parts of east-central Bay of Bengal and remaining parts of Andaman Sea on 21st May 2007. The northern limit of monsoon passed through Lat. 5.0° N /Long. 86.0° E, Lat. 11.0° N /Long. 89.0° E, Lat. 15.0° N /Long. 92.0° E and 17.0° N /Long. 95.0° E

METEOROLOGICAL ANALYSIS

- Two western disturbances affected Western Himalayan region during the week.
- Last week's trough at lower tropospheric level extending from northwest Rajasthan to Chhattisgarh persisted on 17th & 18th. It ran from northwest Rajasthan to East Uttar Pradesh on 19th, from Haryana to East Uttar Pradesh on 20th and became less marked on 21st. An embedded cyclonic circulation lay over northwest Rajasthan on 18th & 19th. Another embedded cyclonic circulation lay over East Uttar Pradesh and neighbourhood on 17th, over north Chhattisgarh and neighbourhood on 18th and over central Uttar Pradesh, neighbourhood on 19th & 20th and became less marked on 21st.
- A cyclonic circulation at lower levels lay over Bihar and neighbourhood on 21st, 22nd and 23rd. A trough from this system extended to north Bay of Bengal during these days.
- A cyclonic circulation lay over coastal areas of north Orissa and West Bengal extending upto mid-tropospheric level on 17th. It lay over north Bay of Bengal extending between 1.5 and 4.5 km a.s.l. on 18th and between 3.1 and 4.5 km on 19th. It became less marked on 20th.
- Strong northwesterly winds prevailed over northern parts of the Peninsula during many days of the week.

RAINFALL

Under the influence of the above systems

- Isolated to scattered rain/thundershowers occurred over Western Himalayan region during many days of the week. Isolated duststorm/thunderstorm occurred over plains of northwest India, Rajasthan, northwest Madhya Pradesh and West Uttar Pradesh during many days of the week.

- Scattered rain/thundershowers occurred over West Bengal & Sikkim and Orissa on many days of the week. Isolated rain/thundershowers occurred over remaining parts of east and central India on many days and over extreme south Peninsula, west coast and Coastal Andhra Pradesh on a few days of the week.
- Scattered to fairly widespread rain/thundershowers occurred over northeast India during many days of the week.
- The weather was mainly dry over remaining parts of the country during the week.

MAXIMUM TEMPERATURES

- Heat wave conditions prevailed over some parts of Coastal Andhra Pradesh throughout the week and over north coastal Tamil Nadu for first two days of the week. The maximum temperatures were above normal by 5-8°C over some parts of Coastal Andhra Pradesh throughout the week. They were above normal by 2-5° C over remaining parts of Andhra Pradesh, Tamil Nadu, north Kerala, Coastal and South Interior Karnataka during the week.
- They were above normal by 2-5° C over Assam & Meghalaya and Arunachal Pradesh during the week.
- They were normal during first half and below normal by 2-4° C during second half of the week over central India.
- They were below normal by 2-5° C during first half and became normal during second half of the week over Indo-Gangetic plains and adjoining east India.
- They were normal over remaining parts of the country during many days of the week.

RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 23RD MAY, 2007)

Rainfall was excess/normal in 15, deficient/scanty in 18 and no rain in 3 out of 36 meteorological sub-divisions (Actual: 13.1 mm, Normal: 15.1 mm and Departure: -13%).

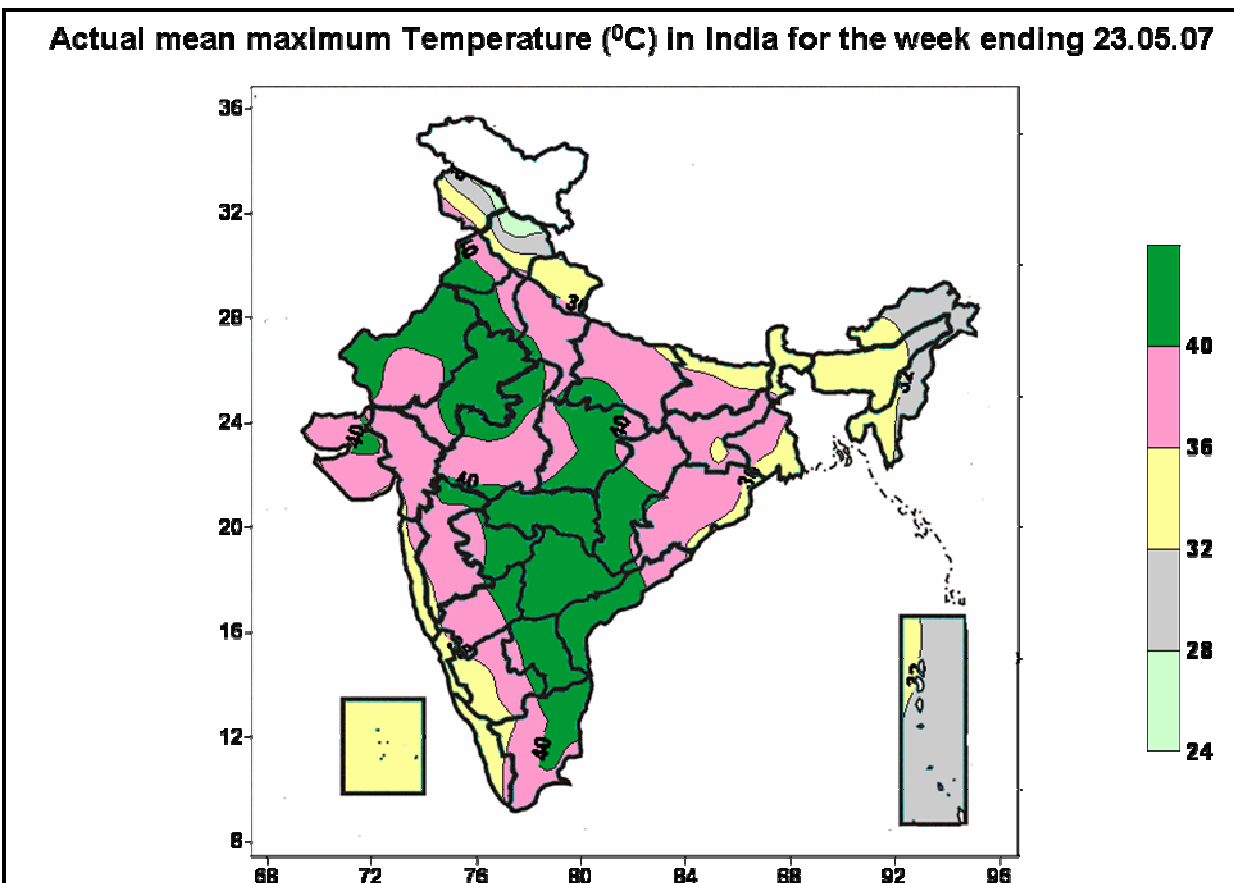
CUMULATIVE SEASONAL RAINFALL (1ST MARCH TO 23RD MAY, 2007)

Rainfall was excess/normal in 17 and deficient/scanty in 19 out of 36 meteorological sub-divisions. (Actual: 94.8 mm, Normal: 114.8 mm and Departure: -17%).

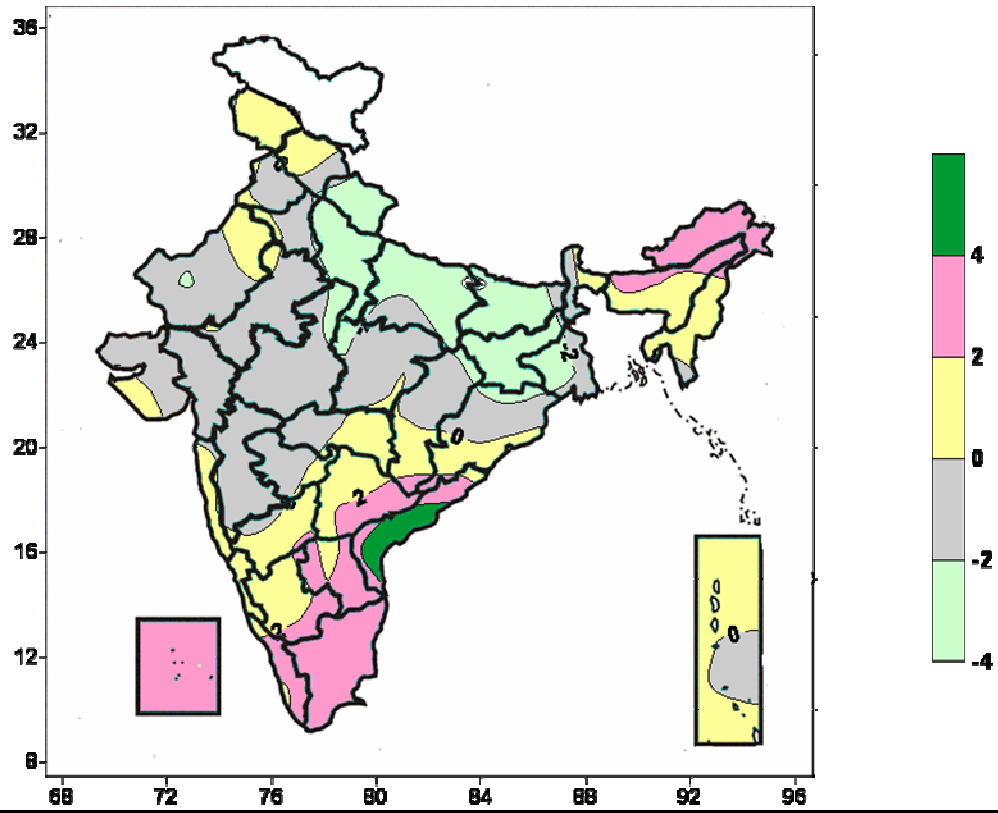
OUTLOOK FOR THE WEEK ENDING ON 30TH MAY, 2007.

- Under the influence of the western disturbance, isolated to scattered rain/thundershower activity likely over northwest India and Rajasthan.
- Scattered rain/thundershowers activity likely over northeast India and isolated over of east India.
- Increase in rain/thundershowers activity likely over south peninsula.

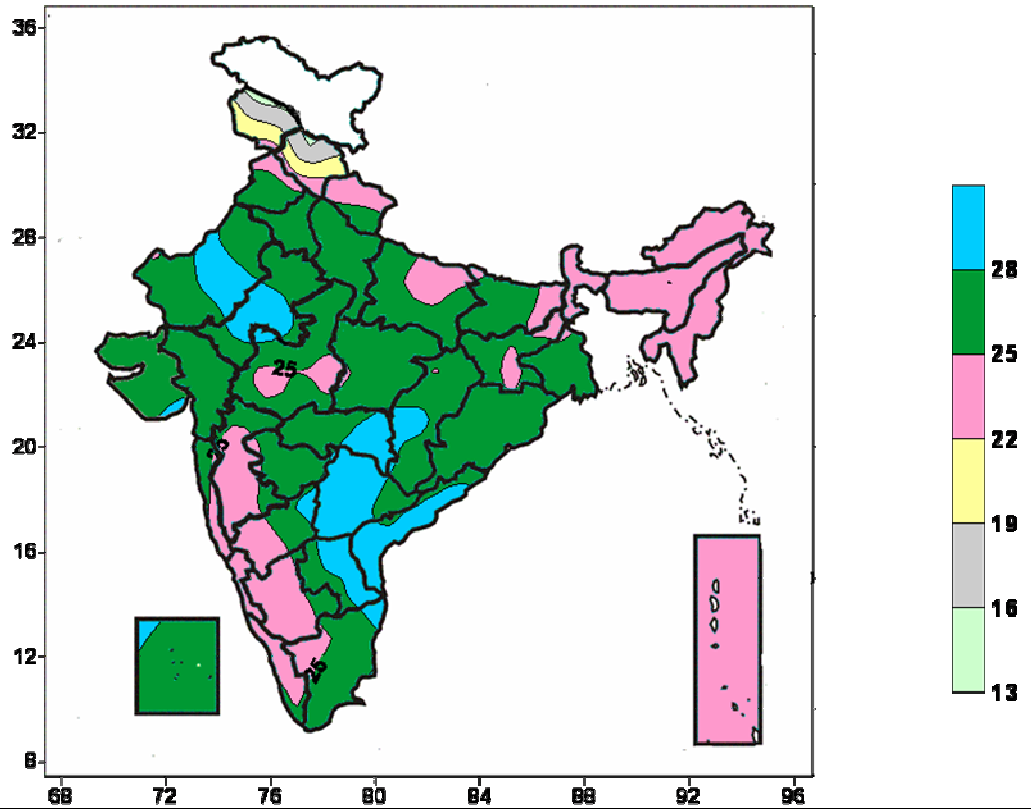
Contour maps for the week ending 23rd May, 2007



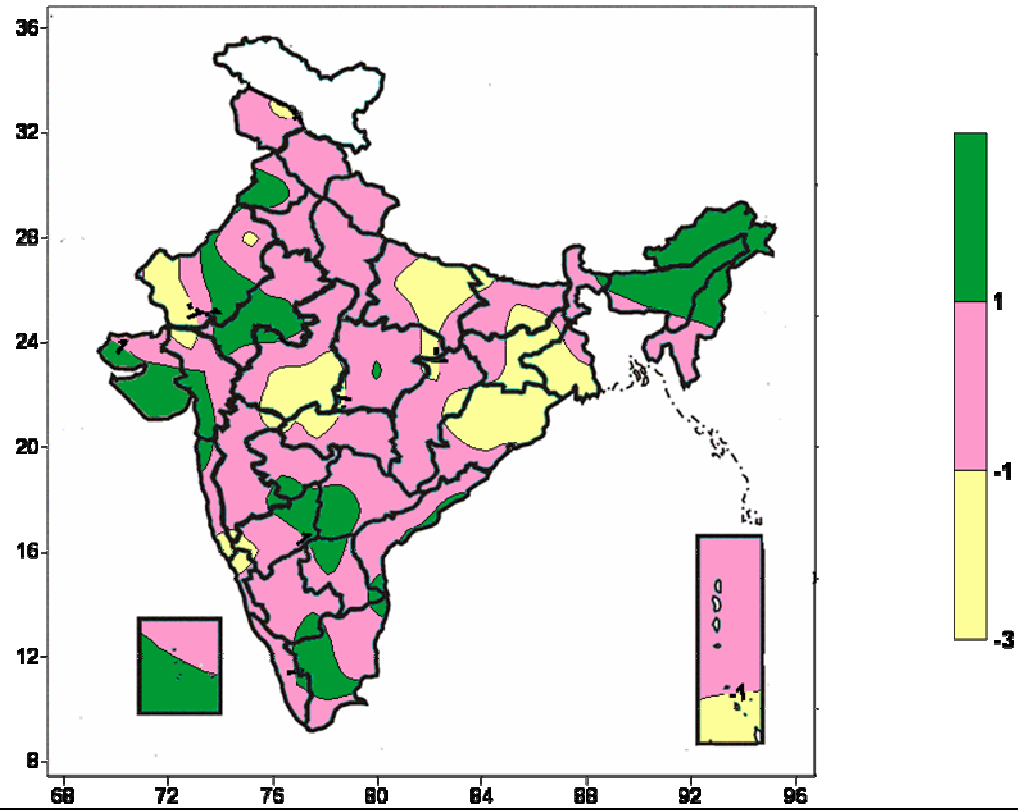
Maximum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 23.05.07



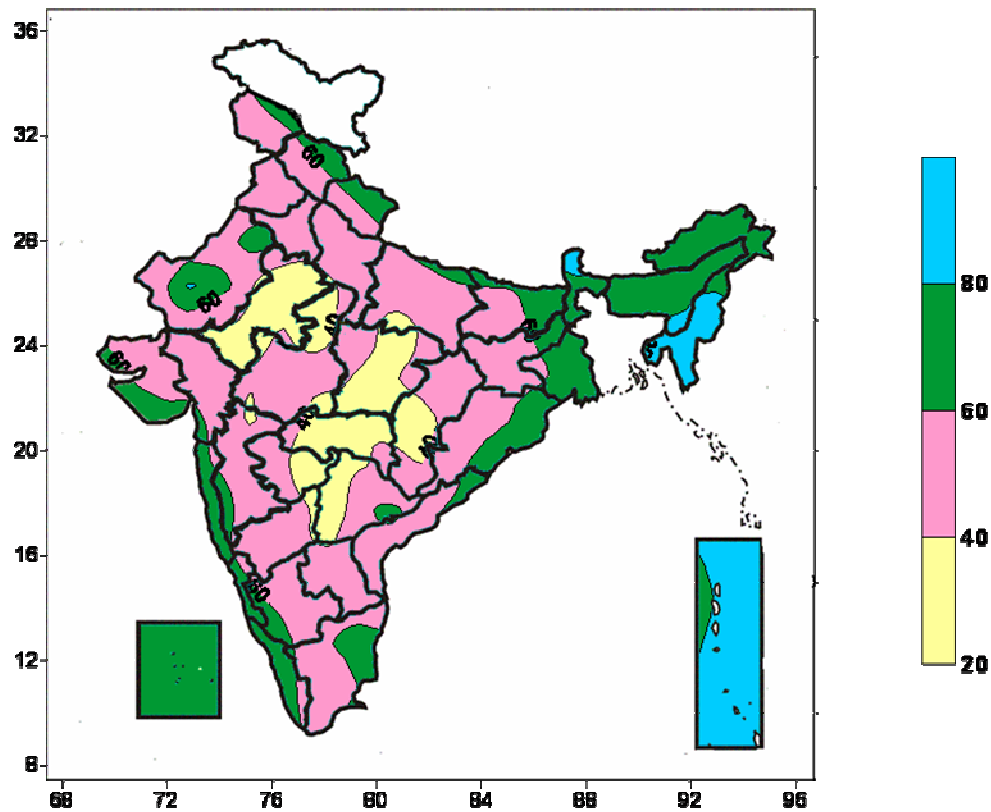
Actual mean Minimum Temperature ($^{\circ}\text{C}$) in India for the week ending 23.05.07



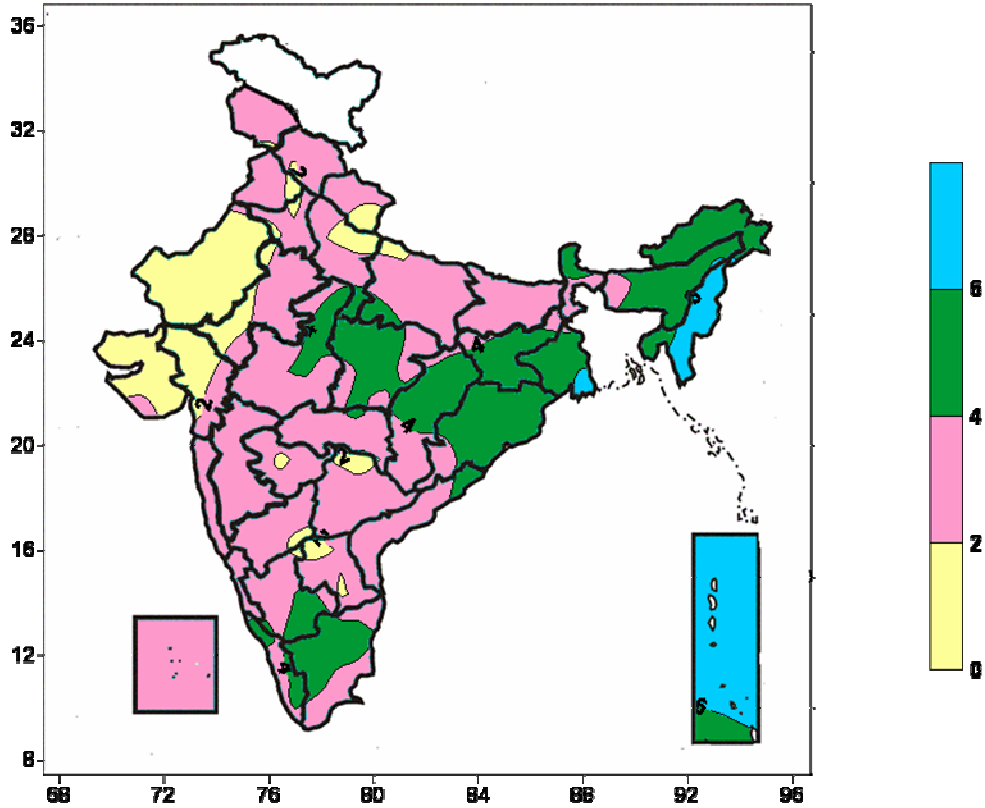
Minimum Temperature ($^{\circ}\text{C}$) Anomaly in India for the week ending 23.05.07



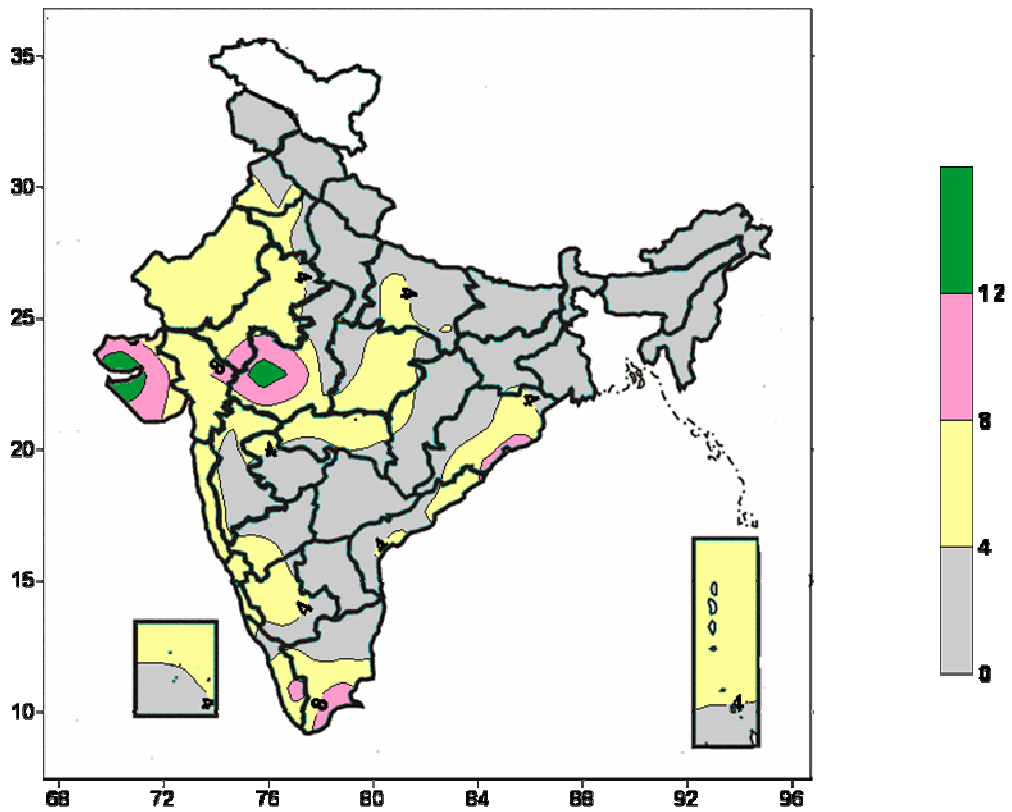
Relative humidity (%) over India for the week ending 23.05.07



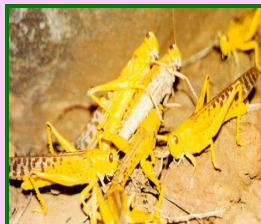
Cloud amount (okta) over India for the week ending 23.05.07



Wind speed (knots) over India for the week ending 23.05.07



Desert Locust Forecasting



Rainfall (mm)							
Station Name	17.05.07	18.05.07	19.05.07	20.05.07	21.05.07	22.05.07	23.05.07
Amritsar	-	-	-	-	-	-	-
Barmer	-	-	-	-	-	-	-
Sriganganagar	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-
Kota	-	-	-	-	-	-	-
Deesa	-	-	-	-	-	-	-
Churu	-	-	-	-	-	-	-

Temperature (degree Celcius)							
Station Name	17.05.07	18.05.07	19.05.07	20.05.07	21.05.07	22.05.07	23.05.07
Amritsar	-	33.0	27.5	33.0	31.5	31.0	-
Barmer	-	-	33.5	-	-	-	-
Sriganganagar	-	-	37.0	-	33.0	34.5	-
Jaisalmer	-	33.0	-	-	-	-	32.5
Kota	-	36.5	37.5	-	-	-	-
Deesa	33.0	33.0	33.5	33.5	32.5	32.5	32.5
Churu	-	-	-	-	-	-	-

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

CROP – STATE – STAGE

Delhi

Vegetables	Early sown summer vegetable crops	Rice	Arhar	Early sown Arhar
Sowing	Vegetative / Flowering / Fruiting	Nursery preparation	Land preparation/Sowing	Germination / early vegetative

Haryana

Early sown Sugarcane	New Sugarcane	Oilseeds	Horticultural crop
Vegetative	Sowing	Flowering/seed formation	Vegetative
Cotton	Paddy	Kharif Groundnut	Kharif Pulses
Sowing	Land preparation/Sowing	Field preparation and Sowing	Field preparation and Sowing

Himachal Pradesh

Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger, Bhindi)	Onion	Potato	Maize
Nursery sowing /Transplanting	Vegetative / Flowering/ fruiting / harvesting	Bulb development / Maturity	Sprouting / early vegetative / vegetative	Land preparation and sowing
Apple	Rice			
Fruit development	Nursery sowing			

Jammu & Kashmir

Vegetable crops	Brown Sarson	Wheat	Summer mash and moong	Maize/ Rice

Fruiting/harvesting–in Kashmir Div.	Seed formation – in Kashmir Division	Grain development -in Kashmir division	Flowering	Sowing (Kashmir div.)
			Early sown Maize/ Rice	
			Early vegetative/Vegetative	

Punjab

Sugarcane	Sunflower	Horticultural crop	Cotton	Wheat
Vegetative	Flowering/seed formation	Vegetative	Sowing	End Harvesting
Kharif Groundnut		Paddy		
Field preparation/Sowing		Nursery field preparation/Sowing		

Rajasthan

Zaide Moong	Zaide Fodder	Early sown Cotton	Cotton	
Pod formation	Vegetative	Germination / seedling	Sowing – in some areas	

Uttar Pradesh

Sugarcane	Winter Vegetables (Onion & Garlic)	Summer Vegetables	Sunflower	Mango
Early vegetative	Maturity/ harvesting stage	Vegetative	Flowering/Pod formation	Fruit setting
Rabi Pulses (Urad, Moong, Lobia)	Maize	Bajra	Wheat / Barley	Rice
Vegetative / flowering/Grain formation	Early vegetative	Early vegetative	Harvesting	Preparation of Nursery

Uttarakhand

Potato	Mango/Litchi/ Apple	Wheat	Sugarcane	
Vegetative growth	Fruit setting/Fruit development/maturity	Late harvesting	Vegetative	

Assam

Early sown Summer vegetables	Early Ahu rice	Jute	Maize	Sugarcane
Vegetative/Flowering/Fruiting/Harvesting	Tillering	Germination/Early vegetative/Vegetative	Vegetative	Sprouting/Early vegetative
Regular Ahu Rice	Early sown direct seeded Regular Ahu Rice			
Transplanting	Germination/Early vegetative			

Arunachal Pradesh

Summer vegetables	Ginger	Millet	Jhum Paddy	Maize
Vegetative/Harvesting	Rhizome formation	Vegetative	Vegetative	Flowering/Cob formation
WRC Rice				
Early vegetative				

Bihar

Summer Vegetables	Boro Summer Rice	Mango & Litchi	Green Gram / Black gram	Summer Maize
Vegetative	Grain formation/Maturity	Fruiting	Pod formation	Vegetative
Kharif rice	Sesamum	Sugarcane	Early sown Sugarcane	
Nursery preparation	Pod formation	Planting	Seedling/Early vegetative	

Jharkhand

Boro rice	Summer vegetables		
Grain formation	Vegetative		

Sikkim

Maize	Orange	Vegetables	Large Cardomom	Ginger
Vegetative	Fruiting New planting in some places	Vegetative	Capsule formation	Vegetative

Rice				
Nursery sowing				

West Bengal

Boro rice	Sesamum	Green gram	Groundnut	Arhar
Harvesting	flowering / pod formation / maturity/harvesting	Flowering / pod formation /early maturity	Land preparation / sowing	Land preparation / sowing
Aus rice	Early sown Sugarcane	Jute	Early sown Jute	
Land preparation / sowing	Early vegetative/ Vegetative	Land preparation / sowing	Germination / early vegetative/vegetative	

Chattisgarh

Sugarcane	Vegetables (Tomato, chilli, brinjal)	Summer Vegetables	Sunflower	Groundnut
Vegetative	Fruiting / harvesting	Vegetative / Flowering / Fruiting	Seed maturity / harvesting	Seed maturity / harvesting
Summer sesamum	Green Gram	Summer rice	Maize	
Flowering/Capsule formation / early maturity/harvesting	Flowering / Pod formation/early maturity	Grain maturity/harvesting	Vegetative	

Gujarat

Sugarcane	Rice	Summer Groundnut	Summer Bajra	
Vegetative	Grain maturity/Harvesting	Pod maturity/Harvesting	Grain maturity/Harvesting	

Maharashtra

Sugarcane Preseasonal (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Groundnut (Madhya Maharashtra, Marathwada, Vidarbha & Konkan)	Summer Rice (Konkan, Vidarbha & Kolhapur dist.)	Summer Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Bajra (Madhya Maharashtra, Marathwada & Vidarbha)
Early vegetative / active growth	Pod formation/ pod maturity– in Kolhapur, Nashik, Nagpur & Aurangabad. Pod maturity / harvesting in Konkan, Pune, Latur & Amravati	Panicle initiation / flowering – in Vidarbha. Grain formation / grain ma in Kolhapur. Grain maturity / harvesting in Thane, Raigad, Ratnagiri and Sindhudurg dist.	Head formation (Seed maturity in Latur & Amravati Division)	Grain maturity / harvesting
Summer Maize (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Maharashtra, Marathwada and Vidarbha)	Irrigated cotton (Madhya Maharashtra, Marathwada & Vidarbha)	Early sown irrigated cotton (Madhya Maharashtra, Marathwada & Vidarbha)	
Cob formation / Cob maturity / harvesting	Early vegetative	Sowing	Germination / Early vegetative	

Madhya Pradesh

Summer moong	Sugarcane			
Pod maturity	Vegetative			

Orissa

Summer Vegetables	Dalua Rice	Summer pulses	Sugarcane	Jute
Vegetative/Fruiting	Harvesting	Vegetative	Vegetative	Field preparation and Sowing
		Summer Groundnut	Early sown Summer Groundnut	
		Field preparation and Sowing	Early vegetative	

Andhra Pradesh

		Kharif rice		
		Land preparation and nursery sowing		

Karnataka

Sugarcane (Ratoon crop)	Summer rice	Kharif Jowar/Maize/Grou ndnut/Sunflower	Early sown Kharif Jowar/Maize/Ground nut/Sunflower	
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Vegetative	Grain maturity / harvesting	Sowing	Germination / early vegetative	
Kerala				
Rubber		Virippu rice		
Tapping		Raising nursery		
Tamil Nadu				
Rice (Kuruvai)	Sunflower	Cotton	Sugarcane(Early and Mid season)	Oilseeds (Groundnut)
Nursery raising	Seed / pod maturity	Boll development	Vegetative	Seed / pod maturity
Summer gingelly /Maize				
Flowering				
