

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

Agricultural Meteorology Division, India Meteorological Department, Pune, India

Thursday, 26th April, 2007

(For the period 26th April to 30th April, 2007)
The extended version of the bulletin is also available at http://imdagrimet.org

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

Punjab

Heat wave to severe heat wave prevailed in northern parts of the State on 24th and 25th. April. Rainfall occurred at isolated places in the station on 23rd April. Weather remained dry during rest days of the period.

Isolated duststorm / thunderstorm is likely over the State during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rain during last week in most of the districts and only isolated duststorm / thunderstorm is likely over the State during next 24 hrs and mainly dry weather thereafter, apply irrigation to summer sunflower, sugarcane, and horticultural crops. As heat wave conditions are likely over some parts of the state apply light frequent irrigation to the crops.
- Farmers are advised to continue harvesting of matured wheat crops. Harvested produce can be sun dried before taking them indoor / safer places.
- Complete planting of early maturing varieties of sugarcane i.e COJ 64, COH 56 and COH 92 and mid season varieties CO 7717, COH 99 and COS 8436.
- Undertake sowing of cotton.

Haryana

Heat wave prevailed in western parts of the State on 24th April which abated on 25th April.

Isolated duststorm / thunderstorm is likely over State during next 24 hours and mainly dry weather thereafter.

Advisories

- As there was no significant rain during last week in most of the districts and only isolated duststorm / thunderstorm is likely over the State during next 24 hrs and mainly dry weather thereafter, apply irrigation to summer sunflower, sugarcane, and horticultural crops. As heat wave conditions are likely over some parts of the State apply light and frequent irrigation to the crops.
- Farmers are advised to continue harvesting of matured wheat crops. Harvested produce can be sun dried before taking them indoor / safer places.
- Complete planting of early maturing varieties of sugarcane i.e. COJ-64, COH 56 and COH 92 and mid season varieties CO 7717, COH 99 and COS 8436.
- Undertake sowing of cotton.

Rajasthan

Duststorm / thunderstorm / rain occurred at isolated places in Jodhpur / Kota divisions and weather remained mainly dry in rest divisions of the State. Heat wave conditions prevailed over some parts of North-Rajasthan and likely to continue with spread over the rest State.

Isolated duststorm / thunderstorm is likely over Rajasthan during next 48 hrs.

Advisories

- Heat wave conditions prevailed over some parts of the State during last week and likely to continue for the
 next three days. Apply light and frequent irrigation in early sown moong crop in view of continued heat wave
 conditions.
- After the harvest of *rabi* crops, summer ploughing may be undertaken in order to conserve moisture during summer showers and to control soil borne pests and diseases.
- Continue sowing of *zaide* moong and fodder in irrigated areas. Select among K-851, MUM-2 and RMG-268 etc. for sowing of moong. Undertake seed treatment with *Rhizobium* before sowing moong.
- Continue sowing of *desi* cotton in irrigated areas. Undertake seed treatment with chemicals before sowing.
 Select varieties from LHH-144, RG-8, RG-18, Bikaneri Narma, RS-810, RS-875, RST-9, Ganganagar Ageti, RHH-16, RS-2013 etc. for sowing.

Uttar Pradesh

Weather was mainly dry in all divisions of the State on 23^{rd} April. Weather was mainly dry in Agra, Jhansi & Merrut divisions & dry in remaining divisions of the State on 24^{th} April. Heat wave conditions prevailed over U.P. and weather was mainly dry in all divisions of the State on 25^{th} April.

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

Advisories

- As mainly dry condition prevailed most of the districts in the State during last three weeks and only isolated duststorm / thunderstorm is likely over West Uttar Pradesh during next 24 hours and mainly dry weather thereafter and isolated rain / thundershowers are likely over East U.P. for the next three days, apply irrigation to summer maize, sunflower, pulses and vegetable crops.
- To control borer in early sown sugarcane, spray the solution of Endosulphon 35 EC @ 1.25 litre / ha.
- To control mosaic disease in ladies finger, spray the solution of Dimethoate 30 EC @ 1.6 ml / litre of water.
- Continue harvesting of matured crops of onion and garlic.
- The blossoms of Mango (30-45 cm in length) are affected with malformation disease. Destroy it & to save the fruits spray Naphthalene Acetic Acid 15 ppm or 4 ml Planofix / 9 litres of water.
- Complete sowing of summer sugarcane. Field preparation and sowing of maize may be continued.

Himachal Pradesh

Precipitation occurred at few places.

Mainly dry weather is likely over the State.

- As there was no significant rain in most of the districts of the State during last week and mainly dry weather is likely for next three days, apply irrigation to vegetables, wheat, barley, gram and onion.
- Continue land preparation and nursery sowing and transplanting of cauliflower and cabbage in low and mid hills and planting of potato.
- Harvest already matured crops of wheat and barley on bright sunny days. Wheat is ready for harvest when grain will produce cracking sound while pressed between the teeth.
- There is mild chance of attack of powdery mildew in vegetables. If attack crosses economic threshold level, spray carbendazime 0.5 % to control the disease.
- There is mild chance of attack of pod borer in gram. If attack crosses economic threshold level, spray Monocrotophos (Monocil 36 EC/SL) or Carbaryl 50 WP (Sevin) @ 875 ml or Endosulfan 35 EC (Thiodan/Hindon/Endocel) @ 1250 ml in 625 litres of water per ha.

- There is mild chance of attack of purple blotch disease in onion. If attack crosses economic threshold level, spray mancozeb 0.25 % to control the disease.
- Damage of apple crop is reported from Kullu and Shimla districts due to hails. Where the fruits are damaged due to hails, farmers are advised to spray urea 1.5 kg + Babstin 100 gm + Biozyme or Boon or Biobeta (500 ml) in 200 litres of water.

Uttarakhand

Light to moderate rain was recorded at many places on 19th April and at a few places on 20th April and very light rain at isolated places on 24th April in the hills, while mainly dry weather prevailed during rest of the period. Sky remained mainly clear to partly cloudy during the period.

Mainly dry weather is likely over the State.

Advisories

- As there was excess rainfall in Almora, Garhwal tehri and Nainital for the last two weeks, apply light
 irrigation in these districts depending on profile stored soil moisture. There was no significant rain during last
 week in the remaining districts and mainly dry weather is likely over the State for next three days. Under the
 circumstances, apply irrigation to mango, litchi, apple, potato and sugarcane crops.
- Continue harvesting of matured crops of wheat. Undertake chemical control for mango and litchi as dry weather expected. Maintain cleanliness in the orchards.
- Undertake mulching to conserve soil moisture and to prevent weeds in apple and potato.

Jammu & Kashmir

Light rain / thundershowers occurred at isolated places on 23rd and 24th April over J & K state.

Isolated rain / thundershower is likely over the State during next 24 hrs and mainly dry weather thereafter.

Advisories

- There was no significant rainfall during last week and rain / thundershower is likely to occur only at isolated places during next 24 hours. Under the circumstances, apply irrigation to wheat, brown sarson and vegetable crops in Kashmir division.
- Continue harvesting of wheat at proper maturity stage. After the harvest of wheat, undertake sowing of *Dhaincha* in the fallow land.
- There is mild chance of occurrence of aphids in cucurbits in Jammu division. Monitor the crop for the pest and if the pest population crosses ETL, spray Endosulphan 35 EC @ 0.07%.
- Continue land preparation and sowing of maize in the higher belts in Kashmir division. Undertake seed treatment with *Azospirillum* before sowing.
- Undertake land preparation and sowing of rice in the nursery in Jammu and Kashmir divisions. Undertake seed treatment with *Azospirillum* before sowing.
- Continue land preparation and planting of *Gladioulus*, *Dahia* and Cana bola in Jammu division. Undertake thinning of excess saplings in peach, plum, grapes and papaya in Kashmir division as more population leads to poor growth.

Delhi

Weather remained dry.

Isolated duststorm / thunderstorm is likely over the state during next 24 hours and mainly dry weather thereafter.

Advisories

• As there was no significant rainfall during last few weeks over the State and only isolated duststorm /

thunderstorm is likely over the state during next 24 hours and mainly dry weather thereafter, apply irrigation to vegetables.

- Prepare land and perform sowing of radish, chilli and arhar.
- Use Pusa Chetki variety for sowing of radish.
- Select varieties from UPA 120 and T 21 for sowing of arhar.
- Harvest the matured crops of wheat on bright sunny days. Wheat is ready for harvest when grain will produce cracking sound while pressed between teeth.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Rain / thundershowers occurred at a few places in the State on 23rd & 24th April. Dry weather prevailed on 25th April.

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

Advisories

- There was excess rainfall in most of the districts during last week except in Alappuzha, Kasaragod, Malappuram and Thiruvananthapuram districts. Under the circumstance, postpone irrigation to plantation crops viz., coconut, arecanut, rubber and banana. Apply irrigation in the above mentioned districts to bring the soil moisture to field capacity.
- Start harvesting of *puncha* rice on bright sunny days. Continue land preparation and sowing of *virippu* rice in the nursery. Undertake seed treatment with *Azopirillum* before sowing.
- Attack of powdery mildew is reported in rubber. Spray Wettable sulphur @ 0.2% or Carbendazim @ 0.05% on a non rainy day to control the disease.
- Attack of leaf rot is reported in coconut. Spray the crowns and leaves with 1% Bordeaux mixture or 0.5% Copper Oxy Chloride formulation or 0.4% mancozeb on a non rainy day as a prophylactic measure. In the leaf rot affected plants, remove the rotten portions from spear and the two adjacent leaves and pour 300 ml fungicidal solution on a non rainy day 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 to control the disease.
- Attack of spindle bug is reported in arecanut. Spray Carbaryl @ 4 g / litre of water on a non rainy day to control the pest.
- 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 Chlorpyriphos @ 0.03% or Carbaryl @ 0.2% on a non rainy day. 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.
- Undertake lime application in rubber and arecanut to protect the crops from scorching.

Tamilnadu

Rainfall occurred at a few places over interior Tamilnadu and dry weather prevailed over Coastal Tamilnadu on 24th April. Rainfall occurred at one or two places over the State on 23rd and 25th April.

Rain / thundershowers are likely at a few places over South Tamil Nadu and isolated rain / thundershower is likely over north Tamil Nadu.

- There was excess rainfall during last week in Coimbatore, Dharmapuri, Erode, Karur, Krsihnagiri, Namakkal, Nilgiris, Salem, Sivagangai, Thiruvannamalai, Theni, Vellore and Virudunagar districts. Under this circumstance, postpone irrigation to rice, millets, sunflower, maize, sugarcane, pulses, cotton and groundnut. Apply irrigation to the crops in the remaining districts to bring the soil to its field capacity.
- Monitor groundnut for aphids and if the pests population crosses ETL, spray Dimecron 100EC or Metasystox
 25EC @ 1 ml / litre of water to control the pest. Spraying may be continued on a non rainy day in south

Tamilnadu.

- Continue harvesting rice and rice fallow pulses on bright sunny days.
- Monitor early sugarcane for shoot borer and if the pest population crosses ETL, undertake spraying of Endosulfan 35 EC or Monocrotophos 40 EC @ 1.5 litres / ha. Spraying may be continued on a non rainy day in south Tamilnadu.
- Continue planting mid season sugarcane. Adopt 30000 nos. of two budded setts for planting one acre. Undertake sett treatment with *Azospirillum* before planting.

Karnataka

On 23rd April rainfall occurred at a few places over Coastal Karnataka and South Interior Karnataka and dry weather prevailed over North Interior Karnataka. On 24th April mainly dry weather prevailed over South Interior Karnataka and dry weather prevailed over Coastal Karnataka and North Interior Karnataka. On 25th April rainfall occurred at isolated places over South Interior Karnataka and dry weather prevailed over Coastal Karnataka and North Interior Karnataka.

Isolated rain / thundershower is likely over South Interior Karnataka and Mainly dry weather is likely over the rest region.

Advisories

- Apply irrigation to summer groundnut, sunflower, sugarcane and rice as rain / thundershowers is likely to
 occur at isolated places over South Interior Karnataka for the next three days. Conserve moisture where the
 crops are at maturity stage.
- Monitor groundnut for leaf miner and if the pest population crosses ETL, spray Methyl demeton @ 0.02% to control leaf miner. Avoid spraying where the crops are at maturity stage.
- 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.
- Monitor rice for leaf roller, stem borer and thrips and if the pests population crosses ETL, spray Methyl parathion 50 EC @ 350 ml / ha to control stem borer. Spray Dimecron 100 EC @ 0.5 ml / litre of water to control thrips and leaf roller.

Andhra Pradesh

Isolated rain occurred over the State from 19th to 21st April, over Coastal Andhra Pradesh on 22nd, 23rd, 25th April, over Rayalseema on 24th April. Dry weather prevailed elsewhere over the State during the week.

Isolated rain / thundershower is likely over Rayalaseema and Coastal Andhra Pradesh. Mainly dry weather is likely over the rest region of the State.

Advisories

- Undertake summer ploughing after the harvesting of *rabi* crops in order to conserve moisture due to summer showers and to kill pathogen and eggs of pests.
- Start land preparation and undertake sowing of nursery for kharif rice from first week of May.

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

Assam

Light to Moderate rain occurred at most places during the period with isolated rather heavy falls on 23rd & 24th April.

Rain / thundershowers are likely at many places over the state till tomorrow and scattered thereafter.

Advisories

As rain / thundershowers are likely at many places over the state till tomorrow and scattered thereafter,

postpone intercultural operation, fertilizer application and irrigation to the crops.

- Maintain 3-5 cm water in field of early *ahu* rice.
- Mild incidence of Brown Plant Hopper, Yellow stem borer and blast and sheath blight diseases in *boro* rice and early *ahu* rice is reported in a few localities.
- Monitor attack of Brown Plant Hopper and blast and sheath blight diseases in *boro* rice. If attack crosses economic threshold level, to control Brown Plant Hopper insecticides like Chloropyriphos 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.
- Apply plant protection measures after current spells of rain.
- Prepare land after current spells of rain from tomorrow and continue sowing of summer vegetables like ladies finger, ridge gourd, cucumber etc. and sowing of jute, maize, sugarcane and regular *ahu* rice.
- Plough land and ladder 5 -6 times to obtain a fine seed bed for sowing of jute. In termite and cricket infested field the soil is to be treated with Malathion 5% dust @ 30 kg per hectare. Use seeds of varieties JRC 212, 321, 7447 etc. for sowing.
- Well drained soil is suitable for Maize cultivation. Apply Compost @ 1 tonne along with Urea @ 18 kg, SSP
 @ 33 kg and MOP @ 9 kg per bigha at the time of land preparation for sowing of maize. Use seeds of varieties Ganga-5, Hi- Starch, Campo NLD, Naviot etc. for sowing.
- As rain / thundershowers are likely at many places over the state till tomorrow and scattered thereafter, postpone intercultural operation to already sown jute and maize. As maize crop is highly susceptible to water logging, make arrangement for surface drainage to remove excess water from the field.

Arunachal Pradesh

Sky remained mainly cloudy over the State. Rain / thundershowers occurred at most places on 23rd and 24th April, at a few places on 25th April.

Rain / thundershowers are likely at many places over the State till tomorrow and scattered thereafter.

Advisories

- As rain / thundershowers are likely at many places over the State till tomorrow and scattered thereafter, postpone irrigation to summer vegetables, millet, maize and ginger. Provide drainage facilities to avoid waterlogging.
- Complete transplanting of wet seeded (WRC) rice by this week.

Bihar

Light rain occurred at one or two places on 21st, 22nd & 23rd April.

Isolated rain / thundershower are likely over the State.

Warning: Isolated squall is likely over the State

- As there was no significant rainfall during last week over the State and rain / thundershowers are likely at isolated places over the State, apply irrigation to vegetables, summer maize, green gram and sesamum.
- There is mild chance of occurrence of Red spider mite in vegetable crops. If the crops are affected, spray Sulphur dust @ 3.0 Kg / ha or Dycofol @ 1 lit / ha.
- Maintain 3–5 cm water in the *boro* rice field.
- In mango, continue to give regular irrigation and if there is attack of mealy bug or hopper then spray with Carboryl @ 2g / litre of water.

Harvest the wheat in morning hours. It will facilitate better harvesting and least grain shedding. Temperature
has substantially increased. Make arrangements to complete harvesting of the wheat to avoid the lodging of
crops due to squall.

.Iharkhand

Weather remained mainly dry.

Isolated rain / thundershower is likely over the State.

Warning: Isolated squall is likely over the State.

Advisories

- As there was no significant rainfall in most of the districts and isolated rain / thundershowers are likely over the State for the next three days, apply light irrigation to summer vegetables.
- Make arrangements to harvest the wheat to avoid the lodging of crops due to squall.
- Continue sowing of summer vegetables like bhendi.
- 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@ 2 gm / litre of water.

Sikkim

Sky remained generally cloudy during the period. Moderate to nearly heavy rain occurred at many places on 21st & 24th April. Very light to light rain occurred at a few places on 20th, 23rd & 25th April over East Sikkim. Rainfall was excess during the period.

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

Advisories

- Rain / thundershower is likely to occur at a few places along with isolated thunder squalls over the State for the next three days. Under the circumstances, postpone irrigation to large cardamom, orange, maize and ginger.
- Monitor large cardamom for leaf eating caterpillar, stem borer and shoot fly and if the pest population crosses
 ETL, spray Endosulfan 35 EC @ 1 ml / litre of water on a non rainy day to control the pests. Chirkey and
 Foorkey affected plants may be destroyed by burning.
- 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.

West Bengal

During the said period very light to light rain at a few places along with moderate rain at isolated places occurred on 23rd, very light to light rain at most places with moderate to rather heavy rain at many places on 24th, very light to light rain at most places with rather heavy rain at isolated places on 25th April over Sub Himalayan West Bengal.

But light rain occurred at isolated places on 23rd, very light rain at isolated places on 24th April. Very light to light rain with moderate rain at a few places on 25th over Gangetic West Bengal. Weather was mainly dry elsewhere. Thunder squall reaching speed of 57 km/hr passed over Digha on 24th April.

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

Advisories

 As there was sufficient rain during last week in Coochbehar, Darjeeling and Jalpaiguri districts and rain / thundershowers are likely at a few places over the State for next three days, postpone irrigation to the crops in these districts. Apply irrigation to sugarcane, sesamum, groundnut and green gram crops in remaining districts of the State.

- There is mild chance of attack of brown plant hopper in *boro* rice. If 10 or more pests are seen in 10 hills of different places, apply dust endosulphone 2%. After 7 10 days apply emidaclopride 17.6% @ 1 ml per 7.5 litres of water. 750 litres of water will be required for one hectare of land. Apply chemicals on a non-rainy day.
- Complete land preparation on a non-rainy day and planting of sugarcane. Select early maturing varieties form C.O.J. 7218, C.O. 62197, C.O. 87263 and medium maturing varieties form B.O.91, C.O. 62033, C.O. 7202, C.O. 7224, C.O. 1148, C.O. 87268, C.O.S. 776. etc. for planting of sugarcane. Sett rate is 50 62.5 q / ha. Use top 1/3rd portion of the cane as a seed for best germination. Soak in water for 24 hours for better sprouting. Treat the setts in 100 gm Mithoxy Ethyl Mercuric chloride per 40 litres of water for 20 minutes and then dry in shade. Alternatively setts can be treated by Carbendazim 50% @ 1 gm / litre of water.
- 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.
- Undertake preparation of land and 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 Crabendazim 50% @ 1 gm / kg seeds.

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

Gujarat

Weather remained mainly 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, summer groundnut and summer bajra to bring the soil moisture to field capacity.
- Maintain 3 5 cm water in the rice field. Apply 30 kg N / ha as a supplementary dose to the crop at tillering stage. Water may be drained out before fertilizer application & maintain water level after 2 days.
- Apply 75 kg N / ha as top dressing at 45 days after planting of sugarcane crop. For saving of 25% Nitrogen fertilizer apply 2 kg Bio fertilizer azetobactor mixed with 100 kg FYM / ha in furrows at an interval of 30 & 60 days from sowing.
- If groundnut appears yellowish spray mixture of 100 gm ferrous sulphate + 10 gm citric acid (lemon arc) dissolved in 10 liters of water and spray over the crop in 500 liters of water.
- Apply 60 kg N as a supplementary dose to summer bajra at vegetative stage.

Chhattisgarh

Isolated rain / thundershowers are likely to occur over the State.

- As there was no significant rain during last few weeks in the State and isolated rain / thundershower is likely
 to occur over the state along with possibility of heat wave which may cause higher evapotranspiration loss
 from the crops for next three days, apply irrigation to sugarcane, vegetables, sunflower, summer groundnut,
 sesamum and green gram crops.
- Maintain 3 5 cm water in summer rice field.
- Apply 75 kg N / ha as top dressing at 45 days after planting of sugarcane.

Complete intercultural operation in groundnut at flowering stage (within 6 weeks of sowing).

Maharashtra

Mainly dry weather prevailed all over the State. Hot wave conditions prevailed in East Vidarbha on 25th April.

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 is likely over the State along with possibility of heat wave in Vidarbha which may cause higher evapotranspiration loss from the crops for next three days, apply irrigation to sugarcane (Pre-seasonal), summer groundnut, summer sunflower, summer bajra, summer maize and sugarcane (Suru).
- Complete intercultural operation wherever summer groundnut crops are at flowering stage to keep the field weed free. Harvesting of matured crops may be done in Sindhudurga district.
- Maintain 3 5 cm water in summer rice field. Second dose of 40 kg Nitrogen / ha may be applied after 30 days from transplanting in Vidarbha & third dose of 40 kg Nitrogen / ha may be applied after 60 days from transplanting in Konkan. 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. Harvesting of matured crops may be started in Sindhudurga district.
- To increase pollination at flowering stage, hand covered with woolen cloth may be moved 3 to 5 times on floral disc of summer sunflower smoothly early in the morning.
- Third dose of 25 kg Nitrogen / ha may be applied after 12 to 14 weeks from planting of sugarcane (*Suru*). Use 1 kg Neem cake powder with 6 kg Urea at the time of application of Nitrogen.
- This is the time for sowing of irrigated Cotton. Select a variety from high yielding varieties like LRH-5166, JLH-168 & hybrid varieties like Fule-492, Fule-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

Dry weather prevailed over the State.

Isolated duststorm / thunderstorm is likely over northwest Madhya Pradesh. Mainly dry weather is likely over the rest region.

Advisories

- Continue land preparation and sowing / planting of summer moong and sugarcane.
- Undertake seed treatment with *Rhizobium* before sowing of moong. Do sett treatment with *Azospirillum* before planting sugarcane.
- Monitor early sown summer moong and sugarcane for pests and diseases and if the pest population crosses ETL, undertake plant protection measures.
- Apply irrigation to early sown crops as dust storm / thunder storm is likely to occur at isolated places over northwest Madhya Pradesh and mainly dry weather is likely to prevail in rest of the region for the next three days.

Orissa

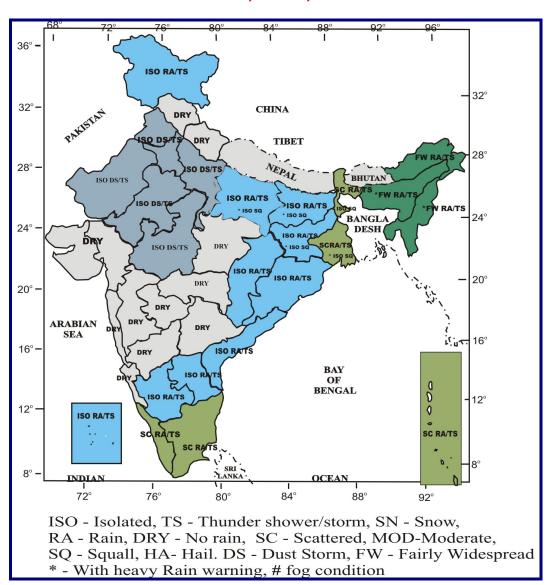
Rainfall occurred at isolated places over the State during the period.

Isolated rain / thundershower is likely over the State.

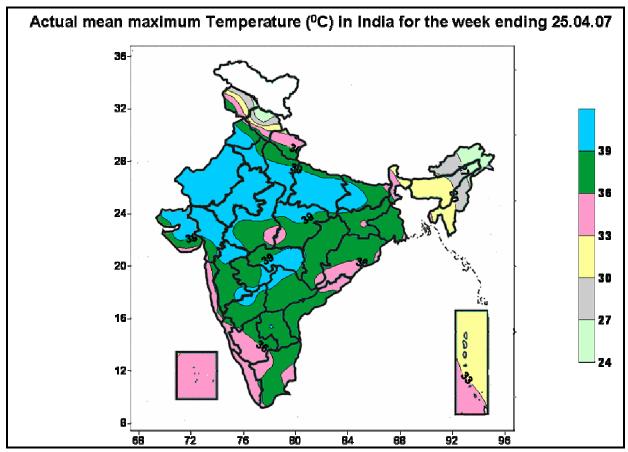
Advisories

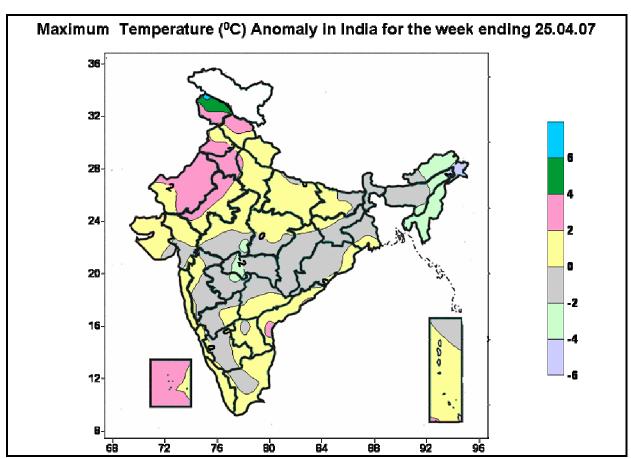
- As there was excess rainfall in Deohar, Gajapati, Khurda and Malkangiri districts and isolated rain / thundershowers are likely over the State for next three days, apply light irrigation to vegetables, sugarcane and pulses grown in these districts. Apply irrigation to the remaining districts to bring the soil to its field capacity.
- There is mild chance of occurrence of *Spodoptera* in summer pulse crop. To manage the pest, spray Chloropyriphos @ 2 ml per litre of water. To control the Yellow vein mosaic spray methyl demeton @ 2 ml per litre of water.
- Harvest the matured crops of *Dalua* rice to avoid lodging of crops due to thundersquall in the northern districts of the State.

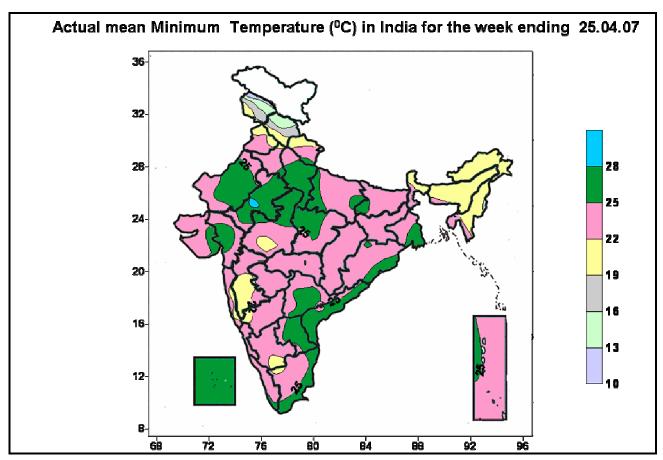
Forecast Map Valid upto 29th April 07

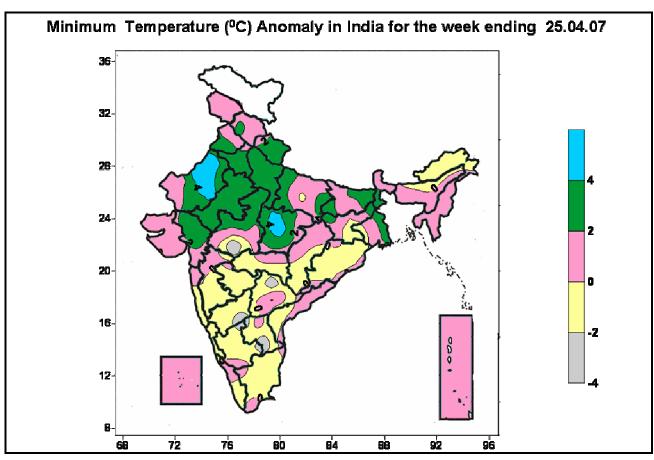


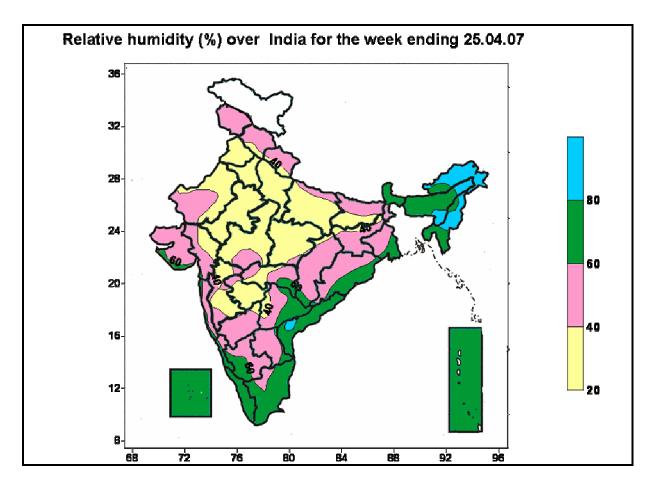
Contour maps for the week ending 25th April, 2007

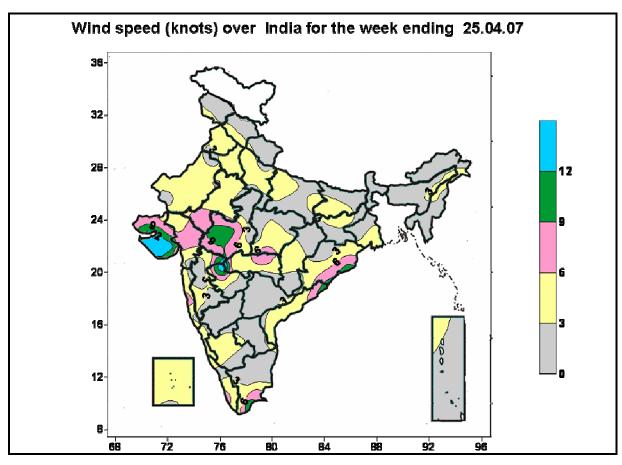


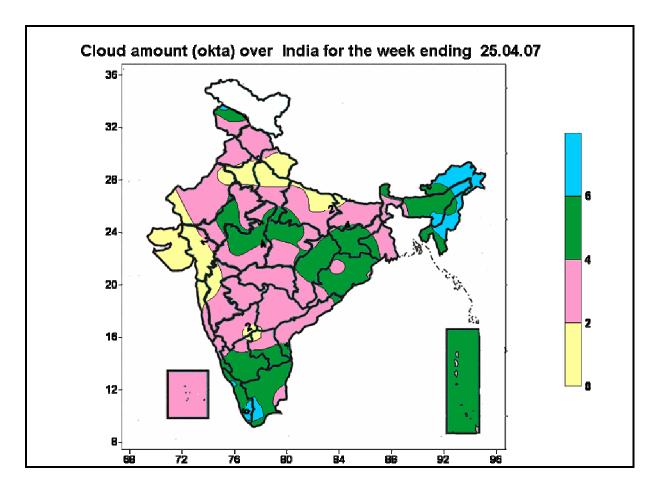












Salient weather features for the week ending 25/04/07

METEOROLOGICAL ANALYSIS

- A trough in the westerlies at times with embedded cyclonic circulation ran from Sub-Himalayan West Bengal & Sikkim to north Orissa/north Bay of Bengal in lower tropospheric levels throughout the week.
- Last week's cyclonic circulation over West Uttar Pradesh and adjoining West Madhya Pradesh at lower levels lay over East Uttar Pradesh and neighbourhood on 19th April, over Jharkhand and adjoining Bihar and West Bengal on 20th April, central West Bengal and neighbourhood on 21st April and became less marked on 22nd April.
- A cyclonic circulation lay over East Rajasthan and adjoining West Madhya Pradesh extending upto 1.5 Km a.s.l. on 19th & 20th April and became less marked on 21st April.
- Another cyclonic circulation lay over north Pakistan and adjoining Jammu & Kashmir and Punjab on 22nd April extending upto 2.1 Km a.s.l. It lay over Himachal Pradesh and adjoining Uttarakhand on 23rd April and moved away eastward on 24th. However a fresh cyclonic circulation lay over central Pakistan and neighbourhood extending upto 0.9 Km a.s.l. on 24th April. It lay over central Pakistan and adjoining Rajasthan on 25th April.
- A north-south oriented trough at times with embedded cyclonic circulation at lower levels ran across south peninsula throughout the week.

RAINFALL

Under the influence of the above systems

- Fairly widespread rain/thundershowers with isolated heavy to very heavy falls occurred over northeastern States during the week. Scattered to fairly widespread rain/thundershowers also occurred over Sub-Himalayan West Bengal & Sikkim on most of the days during the week. Isolated rain/thundershowers occurred over remaining sub-divisions of east India during a few days of the week.
- Isolated rain/thundershowers occurred over extreme south peninsula on many days and over remaining parts of south peninsula, central India and Western Himalayan region on a few days of the week.
- Isolated dust storm/thunderstorm occurred in the plains of the northwest India during a few days of the week.

MAXIMUM TEMPERATURES

- Heat wave conditions prevailed over some parts of Punjab and Haryana on 23rd April and over some parts of Rajasthan on 19th, 22nd and 25th April.
- The maximum temperatures were above normal by 2-5° C over northwest India during the week.
- They were normal during first half and above normal by 2-3° C during second half of the week over Central and East India.
- They were above normal by 2-5° C over Rajasthan throughout the week and over Gujarat on many days. They were below normal by 2-3° C during first half and normal during second half of the week over remaining parts of West India.
- They were below normal by 2-3° C in the beginning of the week and became above normal by 2-3° C towards the end of the week over Karnataka and Andhra Pradesh. They were normal during first half of the week and above normal by 2-3° C during second half of the week over remaining parts of south India.
- They were below normal over northeast India on many days of the week by 2-7° C.

RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 25TH APRIL, 2007)

Rainfall was excess/normal in 18, deficient/scanty in 16 and no rain in 2 out of 36 meteorological sub-divisions (Actual: 12.7 mm, Normal: 9.3 mm and Departure: +37%).

CUMULATIVE SEASONAL RAINFALL (1ST MARCH TO 25TH APRIL, 2007)

Rainfall was excess/normal in 19 and deficient/scanty in 17 out of 36 meteorological sub-divisions. (Actual: 60.5 mm, Normal: 62.3 mm and Departure: -3%).

OUTLOOK FOR THE WEEK ENDING ON 2ND MAY, 2007.

- Gradual rise in day temperature leading to heat wave conditions over some parts of northwest, central and east India during second half of the week.
- Decrease in rainfall activity over northeastern states.



Rainfall (mm)							
Station Name	19.04.07	20.04.07	21.04.07	22.04.07	23.04.07	24.04.07	25.04.07
Amritsar	-	-	-	-	0.6	-	-
Barmer	-	-	-	-	-	-	-
Sriganganagar	19.3	-	3.2	-	-	-	-
Jaisalmer	-	-	-	-	-	5.9	-
Kota	-	-	-	-	-	-	0.8
Deesa	-	-	-	-	-	-	-
Churu	5	-	-	-	-	-	-

Temperature (degree Celcius)							
Station Name	19.04.07	20.04.07	21.04.07	22.04.07	23.04.07	24.04.07	25.04.07
Amritsar	-	29.5	30.0	28.0	29.5	30.0	32.5
Barmer	34.5	-	32.0	-	33.0	32.5	32.5
Sriganganagar	31.0	-	31.5	32.0	34.5	-	32.0
Jaisalmer	34.0	32.0	31.5	32.5	33.0	32.0	32.0
Kota	34.5	35.0	36.0	34.5	-	35.5	35.5
Deesa	33.5	34.0	33.0	32	32.0	31.5	30.5
Churu	-	-	-	-	-	-	-

In western **Pakistan**, small-scale breeding is in progress where low numbers of solitarious hoppers and adults are present. Since there were light rains in Rajasthan last week, there is mild chance for locust migration in the coming weeks. Farmers are advised to monitor the locust and carry out antilocust operations if needed.

CROP - STATE - STAGE

		Delhi		
Vegetables	Early sown summer vegetable crops	Wheat	Arhar	
Sowing	Vegetative	Harvesting	Land preparation/Sowing	
		Haryana	I.	
Early sown Sugarcane	New Sugarcane	Oilseeds	Gram and Lentil	Wheat
Vegetative	Sowing	Early vegetative	Harvesting	Harvesting
Cotton	Horticultural crop			
Sowing	Vegetative	Himachal Pradesh		
Wheat	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley	Rape seeds and Mustard
Harvesting (low hills) Maturity (mid hills)	Nursery sowing /Transplanting	Vegetative/flowering/ fruiting / harvesting	Harvesting (low hills) Maturity (mid hills)	Pod maturity/Harvesting
Onion	Gram (low hills)	Gram (mid hills)	Potato	Apple
Bulb development	Maturity / harvesting	Pod development / pod maturity	Planting	Fruit setting
		Jammu & Kashmir	II.	
Vegetable crops	Brown Sarson	Wheat (in Kashmir division)	Pea/Lentil/ Mustard	Wheat (in Jammu)
Vegetative- in Kashmir Division	Seed formation – in Kashmir Division	Flowering	Harvesting	Grain maturity / harvesting
Fruit crops	Summer mash and moong	Maize/ Rice		
Plantation	Vegetative (Jammu div.)	Sowing (Kashmir div.)		
	· · · · · · · · · · · · · · · · · · ·	Punjab		
Sugarcane	Early sown Sugarcane	Oil seeds	Cotton	Wheat
Sowing	Vegetative	Early vegetative	Sowing	Harvesting
Horticultural crop	Gram/Lentil	, ,		
Vegetative	Harvesting			
	8	Rajasthan		L
Zaide Moong, Zaide Fodder, Cotton		,,		
Germination / seedling				
		Uttar Pradesh		
Sugarcane	Winter Vegetables	Summer Vegetables	Sunflower	Mango
	Maturity/ harvesting			_
Early vegetative	stage	Early vegetative	Early vegetative	Fruit setting
Rabi Pulses (Urad, Moong & Lobia)	Maize	Bajra	Wheat / Barley	
Early vegetative	Seedling/early vegetative	Sowing	Harvesting	
	vegetative	Uttarakhand		l
Potato	Mango/Litchi/ Apple	Wheat	Sugarcane	
Vegetative growth	Flowering / fruit setting	M/Harvestingaturity	Vegetative	
- 6 6		Assam		I
Summer vegetables	Early sown Summer vegetables	Early Ahu rice	Boro Rice	Maize
Sowing	Germination/ vegetative/Flowering/Fr uiting	Tillering	Maturity/Harvesting	Land preparation/ Sowing
Early sown Maize	Regular Ahu Rice	Jute	Early sown Jute	Sugarcane
Germination/Early	Nursery prepration and		Germination/Early	Land preparation and

		4 1 17			
Summer vegetables	Ginger	Arunachal Pradesh Wheat		Jhum Paddy	Maize
Vegetative	Vegetative	Harvesting		Vegetative	Vegetative
WRC Rice	Millet	That vesting			
Transplanting	Vegetative				
	T	Bihar	•		1
Summer Vegetables/ Fruit crops	Boro Summer Rice	Wheat		Green Gram / Black gram	Summer Maize
Vegetative	Panicle initiation	Harvesting		Flowering	Vegetative
	Sesamum Flowering				
	Howering	Jharkha	ınd		
Boro rice	Summer veg	-		Vheat	
Panicle initiation	Vegetati			vesting	
Maize /Ginger	Orange	Sikkim Summer vegetables		Early transplanted vegetables	Large Cardomom
Vegetative	Fruiting	Transr	olanting	Early vegetative	Flowering
		West Ber		, , , , , , , , , , , , , , , , , , ,	
Boro rice	Wheat	Sesa	mum	Groundnut	Green gram
Grain formation	Harvesting		/ flowering / rmation	Flowering / peg / pod formation	Flowering / pod formation
New Crop Sugarcane	Early sown Sugarcane	Jı	ute	Early sown Jute	Aus rice
Planting	Early vegetative/ Vegetative	Land preparation / sowing		Germination (North Bengal)	Land preparation / sowing
		Chattisg	arh	T	T
Sugarcane	Vegetables (Tomato, chilli, brinjal)	Summer Vegetables		Sunflower	Groundnut
Vegetative	Fruiting / harvesting	Vegetative/Flowering		Flowering / head formation/Seed formation	Flowering /Pegging/Seed formation
Summer sesamum	Green Gram		ner rice		
Vegetative / flowering/Capsule formation	Flowering/Pod formation	Panicle initiation /Flowering/Grain formation			
Tormation		Gujara			
Sugarcane	Rice	Summer (Groundnut	Summer Bajra	
Vegetative	Tillering/Panicle initation	Vegetative/Flowering		Vegetative / ear head formation/Milk	
		Maharas	htra		
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	Flowering / pegging – in Kolahapur , Pegging /Pod formation in Pune, Nashik , Amravati (pod Maturity in Latur pod formation / pod maturity in Thane, Raigad & Ratnagiri & Pod maturity/Harvesting in Sindhudurga district)	Tillering/Flag leaf initation – in Vidarbha. Panicle initiation/Flowering/Grain formation in Kolhapur . Flowering/Grain formation in Thane, Raigad, & Ratnagiri dist. Grain formation/Grain maturity in Sindhudurg dist.		Flowering /Head formation (Seed maturity in Latur)	Flowering/Grain formation
Summer Maize (Madhya Maharashtra, Marathwada & Vidarbha)	Sugarcane (Suru) (Madhya Mahrashtra, Marthwada and Vidarbha)	(Madhya M Marath	ed cotton Iaharashtra, iwada & irbha)	Early sown Irrigated cotton (Madhya Maharashtra, Marathwada & Vidarbha)	
Cob initiation/Cob formation	Early vegetative	Sov	wing	Germination	

		Madhya Pradesh		
Summer moong and sugarcane	Early sown Summer moong and sugarcane	Wadnya Pradesn		
Sowing / planting	Germination/sprouting			
		Orissa		
Vegetables	Dalua Rice	Mustard	Rabi Pulses	Summer pulses
Fruiting / Harvesting	Grain maturity / maturity	Pod maturity/Harvestin		Vegetative
Summer Vegetables	Sugarcane	Rabi Groundnut	Summer Groundnut	
Early vegetative	Vegetative	Pod maturity/Harvestin	ng Sowing	
		Andhra Pradesh		
Rabi Groundnut	Rabi rice			
Harvesting	Harvesting			
		Karnataka		
Sugarcane (Ratoon crop)	Sunflower	Summer groundnut	Summer rice	
Vegetative	Grain development/Early maturity	Pod development/Early maturity	Flowering	
		Kerala		
Rubber	Puncha rice			
Tapping	Grain development / maturity			
		Tamil Nadu		
Rice (Navarai)	Sunflower	Cotton	Rice fallow Pulses (Blach gram and Green gram)	Oilseeds (Groundnut)
Harvesting	Vegetative	Vegetative	Harvesting	Vegetative
	Summer gingelly/ Maize	Early sown Summer gingelly /Maize	Mid season Sugarcane	Sugarcane
	Sowing	Vegetative	Planting	Vegetative