

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

Agricultural Meteorology Division, India Meteorological Department, Pune, India

Thursday, 29th March, 2007

(For the period 29th March to 2nd 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

Weather remained dry in the State during the period.

Isolated rain / thundershowers are likely over the State on 31st March & 1st April.

Advisories

- As isolated rain / thundershowers are likely over the state on 31st March and 1st April, postpone irrigation to summer sunflower, wheat and horticultural crops.
- Undertake planting of early maturing varieties of sugarcane i.e COJ 64, COH 56 and COH 92 and mid season CO 7717, COH 99 and COS 8436 after current spells of rain.
- Attack of aphids is reported in wheat. Continue spraying of Fentitrothion 50 EC @ 250 ml / ha after current spells of rain to control the aphids. Remove loose smut affected earhead so that spores of the fungus do not spread.

Haryana

Weather remained dry in the State during the period.

Isolated rain / thundershowers are likely over north Haryana & Chandigarh on 31st March & 1st April. Mainly dry weather over rest part of the State. Rise in day and night temperatures by 2-3^oC over the State during next 48 hours.

Advisories

- As isolated rain/thundershowers are likely over north Haryana on 31st March and 1st April, postpone irrigation to summer sunflower, wheat and horticultural crops. Apply irrigation to the crops in south Haryana.
- Continue planting of early maturing varieties of sugarcane i.e CO J-64, COH 56 and COH 92 and mid season CO 7717, COH 99 and COS 8436 after current spells of rain.
- Continue sowing of sunflower after current spells of rain.
- Attack of aphids and loose smut is reported in wheat. For controlling aphids, continue spraying of Fentitrothion 50 EC @ 250 ml / ha after current spells of rain. Remove loose smut affected earhead so that spores of the fungus do not spread.

Rajasthan

Rain / thunderstorm occurred at isolated places in Ajmer, Jaipur and Bikaner divisions and weather remained mainly dry in rest divisions of the State.

Mainly dry weather is likely over the State. Rise in day temperatures by 2-3°C, leading to prevalence of heat wave conditions over south Rajasthan during next 48 hours.

- Heat wave conditions are likely to prevail over south Rajasthan during next 48 hours. As the crops are at harvesting stage, crop damage will be lesser. Arrange immediately for harvesting the matured crop of wheat.
- Continue harvesting of matured crops of cumin, gram, mustard and barley.

Uttar Pradesh

Weather was mainly dry in all divisions of the State.

Weather will be dry in all divisions of the State. Rise in day and night temperatures by 2-3^oC.

Advisories

- As mainly dry condition prevailed most of the districts in the State and mainly dry weather is likely over the
 Sate for the next three days, apply irrigation to wheat at grain formation stage and winter vegetable crops
 (onion).
- Monitor the violet spot in onion. To control the disease spray the solution of Mancozeb 0.2% @ 2 gm / liter of water if damage exceeds ETL.
- The blossoming in mango by 30-45 cm in length affected with malformation disease and to control Bhunga insect, spray the solution of Monocrotophos 1 ml / litre of water or Dimethoate 1.6 ml / litre of water and to control Black rotten disease or internal rotten disease in mango, spray the solution of Barex 0.6 % @ 6 gm / litre of water.
- Harvesting of winter vegetables and sugarcane may be continued as dry condition will prevail for next three days.
- Continue the sowing of summer urad, moong, maize, sunflower and sugarcane.

Himachal Pradesh

Weather was mainly dry.

Mainly dry weather is likely over the State till tomorrow and isolated to scattered rain / snow thereafter.

Advisories

- As isolated to scattered rain is expected from tomorrow onwards, postpone irrigation to the crops for two to three days.
- Continue land preparation and nursery sowing and transplanting of cauliflower and cabbage in low and mid hills and sowing of bhindi.
- There is mild chance of attack of powdery mildew in vegetables. If attack crosses economic threshold level, spray carbendazime 0.5 % after current spells of rain 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 after current spells of rain. Spraying can be repeated at 15 days interval, if the pest still persists.

Uttarakhand

Light to moderate rain was recorded at many places on 22nd March while mainly dry weather prevailed during rest of the week.

Mainly dry weather is likely over the State. Rise in day and night temperatures by 2-3 °C during next 48 hours.

Advisories

- Postpone irrigation to mango, potato and wheat crops as scattered rain is likely on 1st April.
- Continue planting of potato in hilly areas after current spells of rain.
- Field preparation and sowing / ratooning of sugarcane may be continued after current spells of rain.

Jammu & Kashmir

Weather remained mainly dry over J & K State.

Weather will be mainly dry over J & K divisions till 30th March and isolated to scattered rain / snow thereafter.

Advisories

• There are chances of cold injury to standing crops in Kashmir. In order to protect the crops from cold injury, farmers are advised to undertake the following measures.

- Arrange for smoking near the field to safeguard the crops from cold injury.
- Wipe out water droplets on the leaves by pulling rope from the two sides of field. This will prevent formation of ice crystals during night time.
- Rouge out loose smut and flag smut affected wheat and barley crops in Jammu and destroy them completely
 to prevent further spread.
- Continue harvesting of the matured crops of mustard, gram, lentil and pea in Jammu division.
- Continue land preparation and sowing of *summer* mash and moong in Jammu division. Sowing of *summer* vegetable crops should be completed without any further delay. Transplanting of tomato, brinjal and chillies from nursery to field area may be undertaken during this period.

Delhi

Weather remained mainly dry.

Mainly dry weather is likely over the State. Rise in day and night temperature by 2-3°C during next 48 hours.

Advisories

- As there was no significant rainfall during last week over the State and mainly dry weather is likely for next three days, apply irrigation to vegetables, wheat and barley.
- Harvest mustard crop on bright sunny days when 80% siliqua are at maturity stage.
- Prepare land and perform sowing of pumpkin, ladies finger, beans and Spinach.
- Use Parbani Kranti, Pusa Savnee and Pusa Sadabahar varieties of ladies finger and Jobner Green, All Green and S-23 varieties of spinach for sowing.
- Monitor red pumpkin beetle in cucurbits and if attack exceeds economic threshold level, spray carbaryl 50% WP @ 750 1000 gms / ha.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Rain / thundershowers occurred at isolated places on 27th March. Dry weather prevailed on 26th & 28th March. Isolated rain / thundershowers are likely over the State.

- Apply irrigation to plantation crops viz., coconut, arecanut, rubber, banana and *puncha* rice as there was no significant rainfall during last few weeks and rain / thundershower is likely to occur at isolated places only for the next three days over the state.
- Attack of leaf folder, stem borer, brown plant hopper and gall midge and blast and blight diseases is reported in *puncha* rice. Spray Carbaryl @ 2 kg / ha to control the pests. Spray Carbendazim @ 1 g / litre of water to control the diseases.
- Attack of powdery mildew is reported in rubber. Spray Wettable sulphur @ 0.2% or Carbendazim @ 0.05% to control the disease.
- Attack of pseudostem weevil is reported in banana. In endemic area, first remove the outer sheath of plants and spray Quinalphos @ 0.05% or Chlorpyriphos @ 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.
- Attack of spindle bug is reported. Spray Carbaryl @ 4 g / litre of water to control the pest.
- Attack of coried bug and leaf rot is reported in coconut. Spray Sevin @ 4 gm / litre of water to control coried bug. Spray crowns and leaves with 1% Bordeaux mixture or 0.5% Copper Oxy Chloride formulation or 0.4% Mancozeb to control leaf rot. In the leaf rot affected plants, remove the rotten portions from 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.

• Protect the plantation crops from scorching by applying lime.

Tamilnadu

Dry weather prevailed over the State from 26th to 28th March.

Mainly dry weather is likely over the state.

Advisories

- Apply irrigation to rice, millets, sunflower, maize, sugarcane, pulses, cotton and groundnut as there was no significant rainfall for the past few weeks and dry weather is likely to prevail over the State for the next three days.
- Undertake intercultural operations to keep the field weed free and application of fertilizers in groundnut, cotton and sunflower.
- Monitor rice for stem borer and mealy bug and if the pest population crosses ETL, spray Methyl Parathion 50 EC @ 350 ml / ha to control stem borer and spray Dimecron 100 EC @ 0.5 ml / litre of water to control mealy bug.
- Monitor groundnut for aphids and if the pest population crosses ETL, spray Dimecron 100EC or Metasystox 25EC @ 1 ml / litre of water to control the pest.
- Continue land preparation and sowing of *summer* gingelly. Adopt 5 kg / ha seed rate for sowing. Apply M.N. mixture or Manganese Sulphate @ 5 kg / ha after sowing.

Karnataka

On 26th March rainfall occurred at isolated places over South Interior Karnataka and dry weather prevailed over Coastal Karnataka and North Interior Karnataka. On 27th March, rainfall occurred at isolated places over Interior Karnataka and dry weather prevailed over Coastal Karnataka. On 28th March, rainfall occurred at isolated places over the State.

Isolated rain / thundershowers are likely over Coastal Karnataka. Mainly dry weather is likely over rest of the State.

Advisories

- Apply irrigation to summer groundnut, sunflower, sugarcane and rice as there was no significant rainfall
 during last few weeks and rain / thundershower is likely to occur at isolated places over coastal Karnataka only
 and dry weather is likely to prevail over rest region for the next three days.
- Monitor rice for leaf roller, stem borer and thrips and if the pest 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.
- Monitor groundnut for leaf miner and if the pest population crosses ETL, spray Methyl Demeton @ 0.02%. Undertake earthing up and apply gypsum @ 200 kg / ha as the crop is now at pegging stage.
- Monitor ratoon sugarcane for wooly aphids and if the pest population crosses ETL, release *Dipha* sp, adopt
 wider spacing, inter-cropping with soyabean and pulses of short duration as plant protection measures against
 wooly aphids in Mysore, Mandya and Hassan districts.

Andhra Pradesh

Except very light rain at Kurnool on 27th March dry weather prevailed elsewhere over the State during the week.

Mainly dry weather is likely over the State.

- Attack of Brown Plant Hopper is noticed in rice. Incidence of sheath rot and sheath blight is noticed in East
 Godavari district. Incidence of blast is noticed in Nellore, Prakasm, East Godawari, West Godawari, Guntur
 and Nizamabad districts. Though there is report of attack of blast, blight and BPH, prevalence of high
 temperature and low humidity do not favour further spread of the pests and disease. Avoid spraying where the
 crop is at maturity stage.
- Continue harvesting matured crops of groundnut and red gram.

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

Assam

Light rain occurred at isolated places on 26th and weather was dry on 27th & 28th March over the State.

Mainly dry weather is likely over the region during next 48 hours and isolated rain/thundershowers thereafter.

Advisories

- Maintain 3-5 cm water at tillering stage in the *boro* rice field.
- Mild incidence of Brown Plant Hopper, Yellow stem borer and blast and sheath blight diseases in 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 management of yellow stem borer, *Trichogramma Japonicum* @ 50,000 per hectare in six releases is to be used. 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 diseases is controlled. For control of sheath blight diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.
- To control rat in wheat field use Celphos / Quickphos tablet (1 or 2 per hole) or prepare poison bait using 80 gm Atta / Crushed Maize, 5gm Gur, 5 gm Dry fish and 5 gm Zinc Phosphate.
- Harvest already matured crops of wheat on bright sunny days. Wheat is ready for harvest when grain will produce cracking sound while pressed between teeth.
- Prepare land and start sowing of summer vegetables like ladies finger, ridge gourd, cucumber etc., transplanting of early *ahu* rice and sowing of jute and maize.
- Field should be prepared well for transplanting of early *ahu* rice and well rotten FYM or compost manure has to be applied @ 1.5 tonnes per bigha in addition to Urea @ 12 Kg, single super phosphate @ 18 Kg & MOP @ 3 Kg per bigha. The roots of uprooted seedlings are to be washed and dipped in 0.02% solution of chloriphos 40 E.C @ 1 ml per litre of water along with 1% Urea for 3 hours as a protective measure against Stem borer, Gall midge and plant hoppers. Maintain 2 3 cm water in the field 2 3 days after transplanting.
- 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.

Arunachal Pradesh

Sky remained partly cloudy over the State. Rain / thundershowers occurred at one or two places on 26th and 27th March and weather remained mainly dry on 28th March.

Mainly dry weather is likely over the State during next 48 hours and isolated rain / thundershower thereafter.

Hot day conditions are likely to prevail over some parts of the State.

Advisories

- Intercultural operation may be continued in ginger.
- continue harvesting of matured mustard crop.
- Continue field preparation and sowing of summer vegetables like ladies finger and cucurbits, fox tail millet, paddy and maize.

Bihar

Light rain occurred at a few places on 23rd March.

Mainly dry weather is likely over the State. Rise in day and night temperatures by 2-3 °C.

Advisories

- As mainly dry condition prevailed in most of the districts in the State and mainly dry weather is likely over the State for the next three days, apply irrigation to summer maize.
- Prepare land and continue sowing of summer vegetables like bhindi, bottle gourd, sponge gourd, maize and urad, moong.
- Maintain 3 5 cm standing water in the *boro* rice field.
- Continue harvesting of matured wheat, maize, *rabi* pulses and oilseeds.

.Iharkhand

Weather remained mainly dry.

Mainly dry weather is likely over the State. Rise in day and night temperatures by 2-3^oC.

Advisories

- As mainly dry condition prevailed in most of the districts in the State and mainly dry weather is likely over the State for the next three days, apply irrigation to wheat. As late sown wheat crop is at milk stage, moisture must be maintained in the soil.
- Continue harvesting of matured maize, pulse, *rabi* vegetable and potato crops.
- Maintain 3 5 cm water in the *boro* rice field.

Sikkim

Sky remained generally cloudy during the period. Light to moderate rain occurred at many places on 22^{nd} & 24^{th} March and light rain occurred on 25^{th} March over East Sikkim. No rain occurred on 23^{rd} , 26^{th} to 28^{th} March during the week. Rainfall was deficient during the period.

Mainly dry weather is likely over the State. Rise in day and night temperatures by 2-3^oC.

Advisories

- Apply irrigation to large cardamom, orange and vegetable crops as there was no significant rainfall for the last few weeks and dry weather is likely to prevail for the next three days over the State.
- Conserve moisture in mustard and wheat as the crops are now at maturity stage.
- Monitor orange for fruit borer and if the pest population crosses ETL, apply poison bait made by Malathion 50 EC @ 20 ml with molasses or gur @ 200 g in 2 litres of water to control the pest.
- Monitor large cardamom for stem borer and if the pest population crosses ETL, spray Endosulfan 35 EC @ 1 ml / litre of water to control the pest. Chirkey and Foorkey affected plants may be destroyed by burning.

West Bengal

During the said period weather was mainly dry.

Mainly dry weather is likely over the State. Rise in day and night temperatures by 2-3°C.

- As there was no significant rain in the State during last two weeks and mainly dry weather is likely for next three days, apply irrigation to sugarcane, sesamum, groundnut and green gram crops.
- Continue harvesting of already matured crops of wheat on bright sunny days. Wheat is ready for harvest when grain will produce cracking sound while pressed between teeth.
- Apply second split dose of 25 30 kg N / ha at 6 weeks after transplanting of boro rice. Maintain 3 5 cm water in the field after 2 3 days of application of fertilizer.
- No supplementary fertilizer dose of N is required if sesame is sown after harvesting of potato crop. Otherwise apply 12.5 kg N per ha at 3 weeks after sowing.
- Prepare land and continue planting of sugarcane. Select early maturing varieties (10 months) form C.O.J. 7218, C.O. 62197, C.O. 87263 and medium maturing varieties (10 12 months) 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 seed in 100 gm Mithoxy Ethyl Mercuric chloride per 40 litres of water for 20 minutes and then dry in shade. Alternatively you can treat the seeds by Carbandazim 50% 1 gm / litre of water.

Prepare land for sowing of jute in North Bengal. 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.

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

Gujarat

Hot day conditions prevailed in some parts of coastal Saurashatra on 26th March.

Mainly dry weather is likely over the State. Rise in day temperatures by 2-3^oC, leading to prevalence of heat wave conditions over parts of the State during next 48 hours.

Advisories

- As there was no rain during last few weeks in the State and mainly dry weather will prevail along with the probability of increase in temperature in the State which may cause higher evapotranspiration loss from the crops for next three days, apply irrigation to new sugarcane crop, 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 new 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.
- Continue harvesting of Castor and Wheat.

Chhattisgarh

Weather remained dry over the state.

Mainly dry weather is likely over the State. Rise in day and night temperatures by 2-3°C.

Advisories

- As there was no significant rain in the State during last two weeks and mainly dry weather is likely for next three days, apply irrigation to new sugarcane crop, vegetables, sunflower, summer groundnut, sesamum and green gram crops.
- Apply 75 kg N / ha as top dressing at 45 days after planting of sugarcane.
- Apply 30 kg Nitrogen / ha after 25 30 days from sowing of sunflower.
- Apply second split dose of 25 30 kg N / ha at 6 weeks after transplanting of summer rice. Water may be drained out before fertilizer application & maintain water level after 2 days. Maintain 3 5 cm water in the field at tillering stage.
- Continue preparation of land and sowing of summer vegetables like ladies finger, pumpkin, barbati etc.

Maharashtra

Mainly dry weather prevailed all over the State.

Mainly dry weather will prevail all over the state. Rise in day & night temperatures by 2 to 3^{0} C in Vidarbha.

Advisories

- As there was no rain during last few weeks in the State and mainly dry weather will prevail along with the probability of increase in temperature in North Marathwada and North 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).
- Apply 140 kg Nitrogen / ha along with 85 kg each of P₂O₅ and K₂O at the time of earthing up in sugarcane (Pre-seasonal).
- Second dose of 125 kg Gypsum / ha may be applied after 30 days after sowing of summer groundnut. Undertake intercultural operation wherever crops are at vegetative or flowering stage (within 6 weeks of sowing) to keep the field weed free.
- 20 kg Blue green Algae / ha may be applied in summer rice field at early tillering stage in Vidarbha. Maintain 3 5 cm water in the field. Second dose of 40 kg Nitrogen / ha may be applied after 30 days from transplanting. 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.
- Apply 30 kg Nitrogen / ha at vegetative stage of summer sunflower. To increase pollination at flowering stage, hand covered with woolen cloth may be moved 3 to 5 times on floral disc smoothly early in the morning.
- Apply 45 kg Nitrogen / ha at vegetative stage of summer bajra.
- Second dose of 100 kg Nitrogen/ha may be applied after 6 to 8 weeks from transplanting of sugarcane (Suru). Use 1 kg Neem cake powder with 6 kg Urea at the time of application.
- Mild incidence of sap sucking insects and tikka disease in Latur in summer groundnut is reported.
- Monitor summer groundnut for sap sucking insects and if exceeds economic threshold level, spray Chlorpyriphos or Rogor @ 15 ml in 10 liters of water. Use 500 liters of above solution for spraying one hectare of land.
- Monitor summer groundnut for tikka disease and if exceeds economic threshold level, spray Carbendazim (Bavistin) @ 5 gm or Tridemorf @ 7 ml in 10 liters water. Use 500 liters above solution for spraying one hectare of land.

Madhya Pradesh

Dry weather prevailed over the State.

Mainly dry weather is likely over the State. Rise in day and night temperatures by 2-3°C.

Advisories

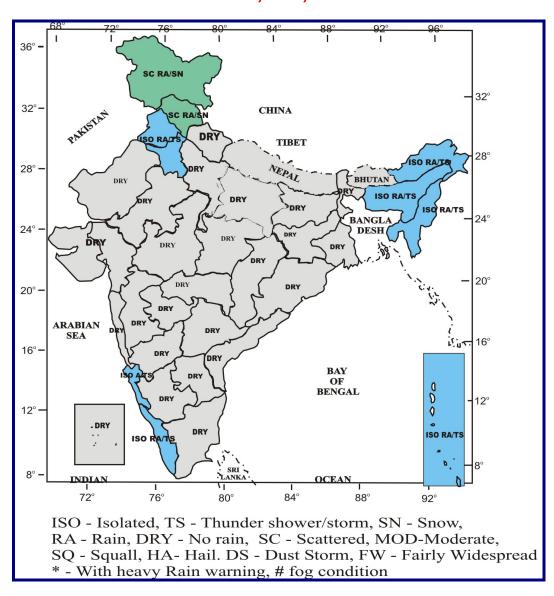
- Continue harvesting of matured crop of *irrigated* wheat.
- Continue land preparation and sowing / planting of *summer* moong and sugarcane. Undertake seed treatment with *Rhizobium* before sowing moong. Do sett treatment with *Azospirillum* before planting sugarcane.

Orissa

Rain fall occurred at isolated places over the State on 28^{th} March and Weather was dry during the remaining days. Mainly dry weather is likely over the State. Rise in day & night temperatures by $2-3^{0}$ C.

- Weather was mainly dry and rainfall occurred at isolated places over the State during last week. Mainly dry
 weather is likely over the State for next three days, therefore, apply irrigation to vegetables, sugarcane and
 pulses.
- Prepare land with basal application of 8 kg N, 16 kg P₂O₅ and 16 kg K₂O / acre and continue sowing of summer groundnut.
- Continue sowing of summer moong with basal application of 8 kg N, 16 kg P₂O₅ and 8 kg K₂O / acre.
- Monitor infestation 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.

Forecast Map Valid upto 1st April 07



Salient weather features for the week ending 28/03/07

METEOROLOGICAL ANALYSIS

- Last week's western disturbance as an upper air system over Jammu & Kashmir and neighbourhood moved away eastward on 22nd. The induced cyclonic circulation at lower levels over central Pakistan and adjoining Punjab & Rajasthan lay over Haryana and neighbourhood on 22nd and became less marked on 23rd.
- An upper air trough in the westerlies ran from Bihar to North Interior Karnataka across Chhattisgarh and Vidarbha extending upto 1.5 km a.s.l. on 22nd. It ran from Sub-Himalayan West Bengal & Sikkim to north Bay of Bengal on 23rd and became less marked on 24th. However, a cyclonic circulation at lower levels lay over Assam and neighbourhood on 24th. It was seen as a trough extending from Assam to north Bay of Bengal at lower tropospheric levels on 25th and became less marked on 26th.
- Strong northwesterly winds prevailed over Indo-Gangetic plains during 2nd half of the week.
- A trough/line of wind discontinuity at lower tropospheric levels ran across south India during many days of the week.

RAINFALL

Under the influence of the above systems

- Fairly widespread precipitation occurred over Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Punjab and scattered precipitation occurred over Haryana, Chandigarh, Delhi and Uttar Pradesh on 22nd.
- Isolated to scattered rain/thundershowers occurred over Bihar and Jharkhand on 22nd & 23rd, Sub-Himalayan West Bengal & Sikkim on 22nd to 24th, northeastern States on 22nd to 26th and Gangetic West Bengal and Orissa on 23rd. Isolated rain/thundershowers also occurred over Orissa on 25th.
- Isolated rain/thundershowers occurred over south India during many days of the week.
- Mainly dry weather prevailed over the remaining parts of the country during the week.

MINIMUM TEMPERATURES

- The minimum temperatures were normal over northwest and south India throughout the week. They were also normal over west India during many days of the week.
- They were above normal by 2-3 °C on 22nd and 23rd and were normal thereafter over central India.
- They were generally normal during first half and below normal by 2-3 °C during second half of the week over many parts of east India.
- They were above normal by 2-4 °C during 24-26th and near normal on remaining days of the week over northeast India.

MAXIMUM TEMPERATURES

- The maximum temperatures were above normal by 2-4 °C over many parts of south India during the week.
- They were normal during first half and above normal by 2-3 °C during second half of the week over Maharashtra and Gujarat.
- They were below normal by 2-3 °C during middle of the week and were normal on remaining days over northwest India.
- They were normal over remaining parts of the country during the week.

RAINFALL DURING THE WEEK (FOR THE WEEK ENDING ON 28TH MARCH, 2007)

Rainfall was excess/normal in 2, deficient/scanty in 18 and no rain in 16 out of 36 meteorological subdivisions (Actual: 3.1 mm, Normal: 8.4 mm and Departure: -64%).

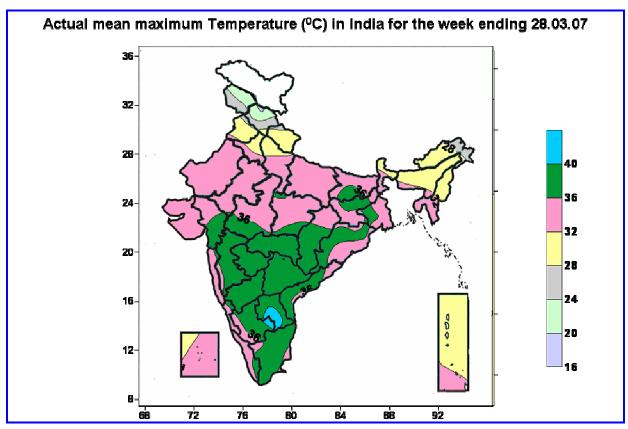
CUMULATIVE SEASONAL RAINFALL (1ST MARCH TO 28TH MARCH, 2007)

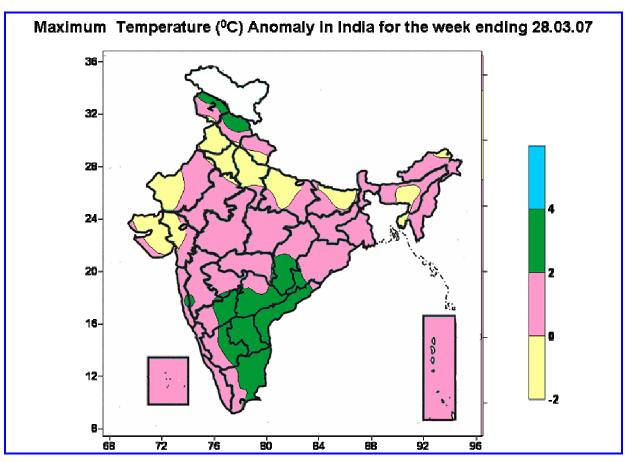
Rainfall was excess/normal in 13, deficient/scanty in 19 and no rain in 4 out of 36 meteorological subdivisions. (Actual: 34.1 mm, Normal: 28.3 mm and Departure: +20%).

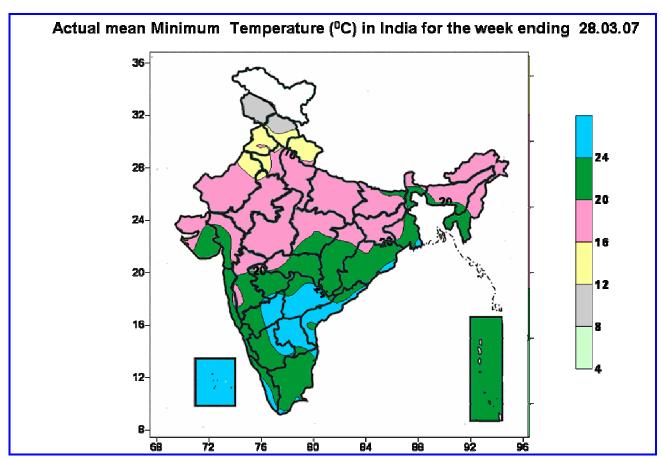
OUTLOOK FOR THE WEEK ENDING ON 4TH APRIL, 2007.

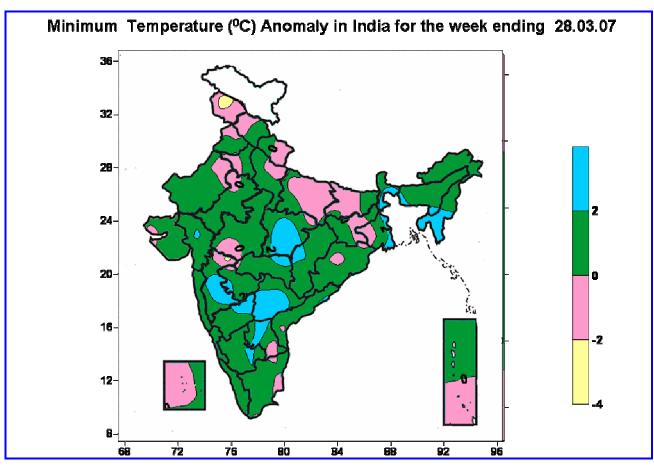
- Under the influence of a fresh western disturbance as an upper air system, scattered precipitation likely over Jammu & Kashmir and isolated over Himachal Pradesh, Uttarakhand, Punjab and north Haryana during 31st March and 1st April onwards.
- Scattered rain/thundershowers are likely over northeast India from 1st onwards.

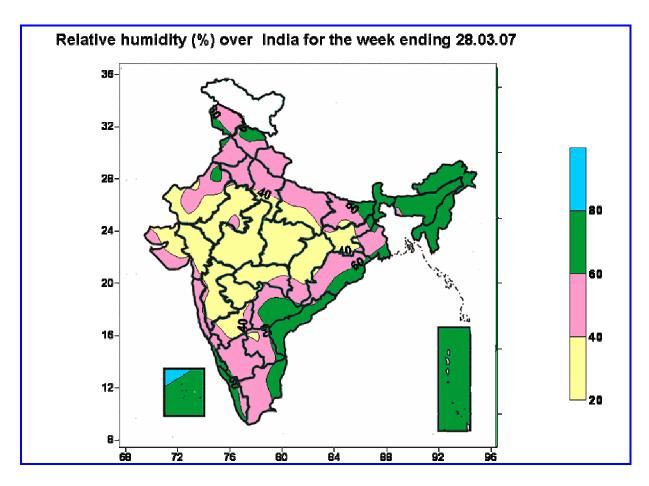
Contour maps for the week ending 28th March, 2007

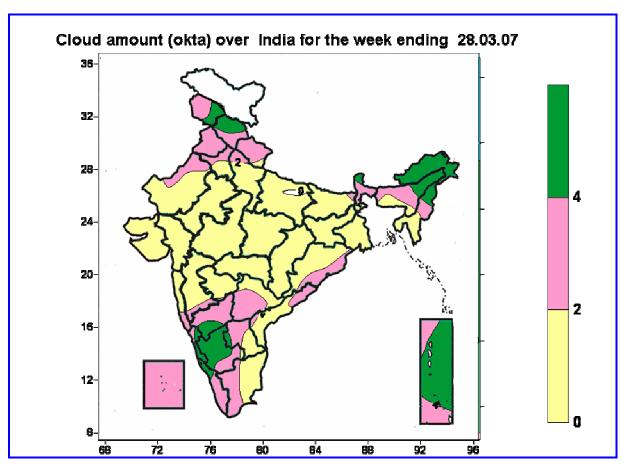


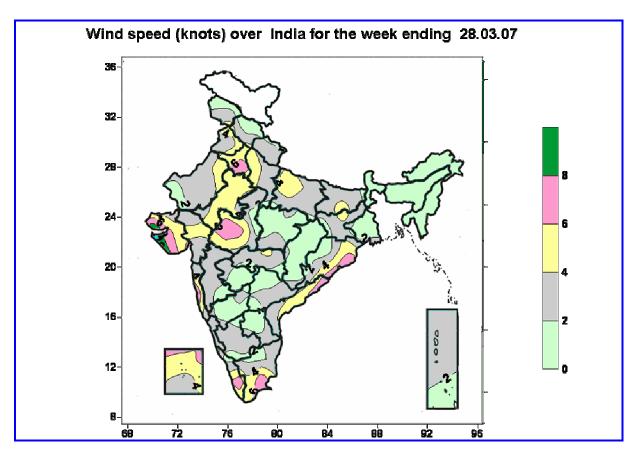














Rainfall (mm)							
Station Name	22.03.07	23.03.07	24.03.07	25.03.07	26.03.07	27.03.07	28.03.07
Amritsar	16.6	-	-	-	-	-	-
Barmer	-	-	-	ı	ı	ı	-
Sriganganagar	-	-	-	-	-	-	-
Jaisalmer	-	-	-	-	-	-	-
Kota	-	-	-	-	-	-	-
Deesa	-	-	-	-	-	-	-
Churu	-	-	-	-	-	-	-

Temperature (degree Celcius)							
Station Name	22.03.07	23.03.07	24.03.07	25.03.07	26.03.07	27.03.07	28.03.07
Amritsar	19.5	18.5	19.0	20.5	20.0	20.5	20.5
Barmer	25.0	25.5	26.5	26.0	-	29.5	-
Sriganganagar	21.5	21.5	21.5	23.0	23.5	24.5	25.0
Jaisalmer	24.0	23.5	24.5	26.5	26.5	-	29.5
Kota	29.0	27.0	26.0	27.5	28.0	28.0	29.5
Deesa	24.5	27.0	26.0	27.5	-	28.5	29.5
Churu	-	-	-		-	-	-

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

CROP - STATE - STAGE

Delhi

		Delhi		
Barley	Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot,and turnip	Early sown vegetable crops	Wheat	Mustard
Grain formation/	currot,una turmp	Vegetative/ flowering/		Seed maturity /
maturity	Sowing/ transplanting	fruiting/ harvesting	Milk / dough	harvesting
Gram	Sowing, transplanting	Turing, har vesting		nai vesting
Pod maturity /				
harvesting				
nai vesung		Haryana		
Early gaven Cyganaga	New Sugarcane	Gram /Lentil	Rabi oilseeds	Wheat
Early sown Sugarcane	New Sugarcane	Gram/Lenth	Kabi offseeds	Grain formation /
Vegetative	Sowing	Maturity	Maturity	milking
Sunflower	Horticultural crop			
Sowing	Vegetative			
		Himachal Pradesh	I	
Wheat	Gram	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley
Flowering	Pod formation	Nursery sowing /Transplanting	Vegetative/flowering / fruiting / harvesting	Flowering
Onion	Rape seeds and Mustard	Fruit plants		
Bulb formation	Pod maturity	Prune		
	· ·	Jammu & Kashmir	I.	L
		Wheat / Barley (in	Pea/Lentil/	Wheat / Barley (in
Vegetable crops	Brown Sarson	Kashmir division)	Mustard	Jammu)
Fruiting/ Harvesting (in		,		• • • • • • • • • • • • • • • • • • • •
Jammu Division)	Seed formation – in		**	
Vegetative- in Kashmir	Kashmir Division	Flowering	Harvesting	Grain development
Division				
Fruit crops	Summer mash and moong			
Plantation	Sowing (Jammu div.)			
	zeving (vanima arvi)	Punjab		
Sugarcane	Early sown Sugarcane	Gram/Lentil	Horticultural crop	Wheat
			-	Grain formation /
Sowing	Vegetative	Maturity	Vegetative	Milking
Toria	Summer Sunflower	Rabi oilseeds		
Harvesting	Early vegetative	Maturity		
Tiul vostilig	Dairy vegetative	Rajasthan	<u> </u>	<u> </u>
Mustard	Wheat	Cumin	Gram	Barley
Harvesting	Grain maturity	Harvesting	Pod harvesting	Harvesting
11al vesuilg	Grain maturity	Uttar Pradesh	1 ou hai vesting	11ai vesuiig
Wheet / Da1	Rabi Pulses		Cummer Cue	Winter Ver-4-11
Wheat / Barley	Kabi Puises	Sugarcane	Summer Sugarcane	Winter Vegetables
Maturity (early varieties) Grain formation (late varieties)	Harvesting / Sowing (Moong,Urad)	Sowing	Field preparation	Flowering/harvesting
Rabi Oilseeds(Rai and Mustard)	Early sown Summer Sunflower	Summer Sunflower	Early sown Summer Vegetables	Summer Vegetables
Harvesting	Seedling /early vegetative	Sowing	Seedling/ early vegetative	Seedling / early vegetative
Mango				
Fruit setting				
		Uttarakhand		
New crop Potato	Mango/Litchi/ Apple	Wheat	Sugarcane	Potato
Germination/Vegetative growth	Flowering	Flowering / milky / dough	Sowing and ratooning	Germination / vegetative growth
<u> </u>	1	Assam		, <u> </u>
Summer vegetables	Sugarcane	Wheat	Boro Rice	Early sown Ahu rice

Maturity / harvesting

Dough / maturity

Early vegetative

Sowing

Harvesting

Barly vegetative Sowing Maturity/Harvesting Maturity/Harvesting	Ahu rice	Early Summer vegetables	, inte		Maize	
Mustard Ginger Potato Wheat Sarrly sown Summer vegetables Carly sown Foxtail millet Foxtail millet Early sown Maize	Transplanting	•	Land preparation/ Sowing			on/
Maturity / Investing			Arunachal P	Pradesh		
Summer vegetables Sowing Germination Land preparation / sowing Germination Land preparation / sowing Summer Vegetables Fruit crops Sowing Sowing Summer Rice Early sogutative/fillering Sowing Summer Vegetables/ Fruit crops Sowing Summer Maize Early vegetative/fillering Maturity/ harvesting Boro Summer Maize Early vegetative/fillering Maturity/ harvesting Boro rice Rabi Maize Early vegetative/fillering Maturity Mulking / grain development Harvesting Rabi vegetables (Tomato, Cabbage, Cauliflower, British, Chill) Harvesting Maturity Sowing Silkim Maize Mustard Summer vegetables Flowering Sowing Silkim Maturity/ Harvesting Maturity/ Harvesting Tuber Maturity Mulking / grain development Harvesting Rabi vegetables (Tomato, Cabbage, Cauliflower, British, Chill) Harvesting Sowing Silkim Maize Mustard Summer vegetables Maturity/ Harvesting Tuber Maturity Mustard Summer vegetables Wheat Maturity Sowing Grain maturity Mustard Summer vegetables Flowering Early sown vegetables Flowering Early sown vegetables Flowering Seasumm Groundnut Flowering Grain maturity Flowering Seasumm Groundnut Farly sown Sugarcane Farly sown						Summer vegetable
Sommer Vegetables Fortial mulet Sowing Germination Land preparation / sowing Bihar Summer Vegetables/ Fruit crops Sowing Farly vegetative/fillering Rabi Oil seeds (Sarson, Rabi Pulses (Lentil), Caran, Pean) Sowing Boro rice Rabi Maize Rabi Maize Rabi Maize Rabi Maize Maturity/Harvesting West Bengal Boro rice Wheat Sowing Maturity/harvesting Maturity/harvesting Maturity/harvesting West Bengal Boro rice Wheat Sessumum Groundnut Green gram Germination/Early vegetative / vegetativ	Maturity / harvesting		Harvesting		Maturity	Germination
Direct Seeded Ahu Rice Land preparation / sowing Summer Vegetables/ Fruit crops Sowing Early sown Summer Maize Early sown Summer Maize Early vegetative/fillering Early vegetative/fillering Early vegetative/fillering Maturity/Harvesting Maturity/Harvesting Jharkhand Boro rice Rabi Maize Wheat Early sown wheat Boro rice Rabi Maize Wheat Early sown wheat Early sown wheat Boro rice Rabi Maize Wheat Early sown wheat Early sown wheat Harvesting Summer vegetables Gram, Pea Gram, Pea Gram, Pea Harvesting Maturity/Harvesting Maturity/Harvesting Maturity/Harvesting Maturity/Harvesting Sowing Sikkin Maize Maturity/Harvesting Sowing Sikkin Maize Wheat Large Cardonom Flowering Sowing	Summer vegetables	dimmer vegetables		Foxtail millet		
Summer Vegetables		Germination	Land preparation / sowing		Germination	
Summer Vegetables/ Fruit crops Sowing Early vegetative/fillering Maturity/ harvesting Harvesting Maturity/ Barvesting Maturity Barvesting Maturity Barvesting Barvestalive / vegetative /	Rice					
Summer Vegetables						
Sowing Early vegetative/illering Maturity/harvesting Harvesting Maturity	G 77 ()) /	Т	Bihar		T	
Sowing Early vegetative/fillering Maturity / Arresting Maturity / Bardy vegetative Sowing Maturity / Bardy vegetative		Boro Summer Rice	\mathbf{W}	heat	Potato	Rabi Maize
Early sown Summer Maize Early vegetative Sowing Maturity/Harvesting Maturity/Harvestin		Early vegetative/tillering	Maturity	/ harvesting	Harvesting	Maturity
Early vegetative Sowing Maturity/Harvesting Maturity/Harvesting	Early sown Summer					
Boro rice Rabi Maize Wheat Early sown wheat	•	Summer Maize				
Boro rice Rabi Maize Wheat Early sown wheat	Early vegetative	Sowing	Maturity/	Harvesting		
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli)			Jharkha	ınd		
Rabi vegetables (Tomato, Cabbage, Cauliflower, Brinjal, Chilli) Harvesting Sowing Mustard Sowing Silkum Maize /Ginger Mustard Sowing Sowing Siliqua maturity Sowing Sowing Sowing Sowing Siliqua maturity Sowing Sowing Sowing Siliqua maturity Sowing Grain maturity Flowering Flowering Boro rice Wheat Sesamum Groundnut Green gram Grain y vegetative / veget	Boro rice	Rabi M	aize	W	heat	Early sown wheat
Cabbage, Cauliflower, Brinjal, Chilli) Summer vegetables Gram, masoor, lentil, linseed, oat, mustard and kusum)	Early vegetative/tiller	ing Matur	ity	Milking / gra	nin development	Harvesting
Maize / Ginger	Cabbage, Cauliflowe		Rabi pulse (Gram, m linseed, oat		asoor, lentil, , mustard and	Potato
Maize / Ginger Sowing Siliqua maturity Sowing Grain maturity Flowering	Harvesting	Sowin			/Harvesting	Tuber Maturity
Sowing Siliqua maturity Sowing Grain maturity Flowering Orange Early sown vegetables Flowering Early vegetative West Bengal Boro rice Wheat Sesamum Groundnut Tillering/Panicle initiation / flowering New Crop Sugarcane Planting Sprouting/Early vegetative / vegeta		T				
Drange Early sown vegetables Flowering Early vegetative						
Boro rice Wheat Sesamum Groundnut Green gram		•	So	wing	Grain maturit	ty Flowering
Boro rice Wheat Sesamum Groundnut Green gram						
Boro rice Wheat Sesamum Groundnut Green gram Tillering/Panicle initiation / flowering New Crop Sugarcane Planting Sprouting/Early vegetative / vege	Flowering	Early Vegetative	West Rea	ngal		
Tillering/Panicle initiation / flowering Maturity / harvesting Maturity / harvesting Early vegetative / ve	Boro rice	Wheat			Groundnut	Green gram
Planting	Tillering/Panicle		Early ve	egetative /	Early vegetativ	Germination / early vegetative /
Planting Sprouting/Early vegetative Vegetati	New Crop Sugarcane	Early sown Sugarcane	Early sow	Early sown Sesamum		Early sown Green
Jute Land preparation / sowing Chattisgarh	Planting			3		arly Germination/Early
Chattisgarh	Jute		50			55000 . 5
Gram, Mustard Vegetables (Tomato, chilli, brinjal) Early vegetative Sprouting/Early vegetative/vegetative Vegetative Summer vegetative Summer rice Linseed						
Harvesting Fruiting / harvesting Early vegetative / veget						
Harvesting Fruiting / narvesting vegetative / vegetativ			Chattisg	arh		l .
Summer vegetative Sowing Tillering Harvesting	Gram, Mustard		Greei	n gram	_	
Summer sesamum Early sown Summer sesamum Green Gram Early sown Green Gram Early vegetative / vegetative Germination / early vegetative Field preparation/Sowing Germination/Early vegetative Kharif Cotton Wheat Rice Castor Summer Bajra	·	chilli, brinjal)	Green Early ve	n gram	Sprouting/Ear	ly Maturity/Harvestin
Summer sesamum Early sown Summer sesamum Early vegetative / Germination / early vegetative / vegetative / vegetative / vegetative / Gujarat Kharif Cotton Wheat Rice Castor Summer Bajra Maturity/ Tillering Harvesting Tillering	Harvesting Sunflower, Groundnut	chilli, brinjal) Fruiting / harvesting Early Sown Sunflower	Green Early ve vege	n gram egetative /	Sprouting/Ear vegetative/vegeta	ly Maturity/Harvestin
Early vegetative / Vegetative Field preparation/Sowing Germination/Early Vegetative Field preparation/Sowing Germination/Early Vegetative Gujarat Kharif Cotton Wheat Rice Castor Summer Bajra Picking Maturity/ Tillering Harvesting Tillering Tillerin	Harvesting Sunflower, Groundnut Early vegetative /	chilli, brinjal) Fruiting / harvesting Early Sown Sunflower Germination / early	Green Early ve vege Summer	n gram egetative / etative Vegetables	Sprouting/Ear vegetative/vegeta	Maturity/Harvesting e Linseed
Kharif Cotton Wheat Rice Castor Summer Bajra Picking Maturity/ Tillering Harvesting Tillering	Harvesting Sunflower, Groundnut Early vegetative / vegetative	chilli, brinjal) Fruiting / harvesting Early Sown Sunflower Germination / early vegetative / vegetative Early sown Summer	Early ve vege Summer	egetative / etative Vegetables wing	Sprouting/Ear vegetative/vegets Summer rice Tillering Early sown Gr	Maturity/Harvesting Ely ative Linseed Harvesting
Kharif Cotton Wheat Rice Castor Summer Bajra Picking Maturity/ Tillering Harvesting Tillering	Harvesting Sunflower, Groundnut Early vegetative / vegetative Summer sesamum Early vegetative /	chilli, brinjal) Fruiting / harvesting Early Sown Sunflower Germination / early vegetative / vegetative Early sown Summer sesamum Germination / early	Early ve vege Summer Sov	regetative / etative Vegetables wing r Gram	Sprouting/Ear vegetative/vegets Summer rice Tillering Early sown Gr Gram Germination/Ea	Maturity/Harvesting E Linseed Harvesting Harvesting
	Harvesting Sunflower, Groundnut Early vegetative / vegetative Summer sesamum Early vegetative /	chilli, brinjal) Fruiting / harvesting Early Sown Sunflower Germination / early vegetative / vegetative Early sown Summer sesamum Germination / early	Early ve vege Summer Sov Green	egetative / etative Vegetables wing n Gram etation/Sowing	Sprouting/Ear vegetative/vegets Summer rice Tillering Early sown Gr Gram Germination/Ea	Maturity/Harvesting E Linseed Harvesting Harvesting
· · · · · · · ·	Harvesting Sunflower, Groundnut Early vegetative / vegetative Summer sesamum Early vegetative / vegetative	chilli, brinjal) Fruiting / harvesting Early Sown Sunflower Germination / early vegetative / vegetative Early sown Summer sesamum Germination / early vegetative / vegetative	Early ve vege Summer Sov Green Field prepar	egetative / etative Vegetables wing n Gram etation/Sowing	Sprouting/Ear vegetative/vegets Summer rice Tillering Early sown Gr Gram Germination/Ea vegetative	Maturity/Harvesting E Linseed Harvesting Harvesting

Mustard	Summer Groundnut	New Sugarcane		
Harvesting	Vegetative	Early vegetative /		
Harvesting	vegetative	vegetative		
Г		Maharashtra	D 1134 1	<u> </u>
Rabi Jowar	Safflower	Wheat	Rabi Maize (Madhya	Rabi Sunflower
(Madhya	(Madhya	(Madhya Maharashti		(Madhya
Maharashtra, Marathwada &	Maharashtra,	Marathwada, Vidarh		Maharashtra, Marathwada &
Vidarbha)	Marathwada & Vidarbha)	& Konkan)	Vidarbha &	Warathwada & Vidarbha)
viuai biia)	viuai biia)		Konkan)	
Harvesting	Harvesting	Harvesting	Cob maturity/Harvesting	Seed maturity / harvesting
Sugarcane Preseasonal	Onion	Summer Groundnu	t	Summer Sunflower
(Madhya	(Madhya	(Madhya Maharashti	Summer Rice	(Madhya
Maharashtra, Marathwada &	Maharashtra, Marathwada &	Marathwada, Vidarb	ho (Konkan, vidaron	
Vidarbha)	Marathwada & Vidarbha)	& Konkan)	& Kolhapur dist.)	Vidarbha)
viuai ona)	viuai biia)		Early tillering / tillerin	
		Vacatativa / flavorina	– in Vidarbha.	
		Vegetative / flowering pegging (Flowering)	, I mering / mag icar	
Early vegetative/active		pegging in Thane, Rais		Vegetative / (floral bud
growth	Harvesting	& Ratnagiri & pod	Thane, Raigad, &	formation in Latur and
800		formation in Sindhudu	rga Ratnagiri dist.	Amravati)
		district)	Flowering / panicle	
			initation in Sindhudur dist.	g
Summer Bajra	Summer Maize	Cuganam (C)	GIST.	
(Madhya	(Madhya	Sugarcane (Suru) (Madhya Mahrashtr	9	
Maharashtra,	Maharashtra,	Marthwada and	α,	
Marathwada &	Marathwada &	Vidarbha)		
Vidarbha) Vegetative / flag leaf	Vidarbha)	,		
initiation (flowering in	Vegetative / Tasseling /	Sprouting/Early		
Nasik)	silking	vegetative		
	Summer moong and	Madhya Pradesh		
Irrigated Wheat	sugarcane			
Harvesting	Sowing / planting			
		Orissa		_
Vegetables	Dalua Rice	Mustard	Pulses	Summer pulses
Flowering / Fruiting / Harvesting	Tillering / panicle initiation / flowering	Pod maturity/Harvestin	Pod formation Matuirty	Germination/Early vegetative
Early sown Sugarcane	Sugarcane	Rabi Groundnut	Watanty	regettative
Harvesting	Early vegettive	Pod maturity/Harvesti	ng	
	1	Andhra Pradesh		
Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice
Pod harvesting	End Harvesting	Harvesting	Pod harvesting	Grain maturity Flowering in some
1 od nai vesting	End Hai vesting	Tai vesting	i od nai vestnig	places
		Karnataka		<u> </u>
Sugarcane (Ratoon	Rabi Jowar and		-	
crop)	Wheat	Sunflower	Summer groundnut	Summer rice
Vegetative	Harvesting	Budding	Pegging	Tillering
, 555	12m Cooling	Kerala		
Rubber	Puncha rice			
Tapping	Flowering	(II) (1.3)		
	Early planted	Tamil Nadu	Diag fallow Dulana	1
Rice (Navarai)	Sugarcane	Cotton	Rice fallow Pulses (Black and Green gram)	Oilseeds (Groundnut)
Flowering	Vegetative	Vegetative	Pod formation /	Vegetative
Flowering	v egetative	_	maturity	v egetative
C	Summer gingelly/	Early sown		
Sunflower	Maize	Summer gingelly /Maize		
Vegetative	Sowing	Vegetative		
v cectative	DOWING	v ogetati ve		