

# Summary of Agromet Advisory Services for different States of the country Issued by

# Agricultural Meteorology Division, India Meteorological Department, Pune, India

# Thursday, 22<sup>nd</sup> February, 2007

(For the period 22<sup>nd</sup> February to 26<sup>th</sup> February, 2007) The extended version of the bulletin is also available at <a href="http://imdagrimet.org">http://imdagrimet.org</a>

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

# **Punjab**

Light rainfall occurred at isolated places on 19<sup>th</sup> February. Weather remained mainly dry on rest days. Rain / thundershower is likely over the State from afternoon of 24<sup>th</sup> February.

#### **Advisories**

- As there was quite excess rain during the week ending 14<sup>th</sup> February in Amritsar, Bhatinda, Hoshiarpur, Jalandhar, Ludhiana, Muktesar, Nawashahar, Patiala, Ropar and Sangrur districts of the State and rain/thundershower is likely over the State from afternoon of 24<sup>th</sup> February, apply light irrigation to sugarcane, wheat, horticultural crops, gram & lentil and oilseed crops depending on soil profile stored moisture in these districts. Apply irrigation in the remaining districts of the State to the crops to bring soil to field capacity.
- Attack of late blight is reported in potato. In order to check further spread of the disease, spray Dithane M-45
   © 500 g / acre.
- Monitor *rabi* oilseeds for aphid attack and if the pests population crosses ETL, spray Dimecron @ 250 ml / ha or Methyl Demiton @ 850 ml / ha.
- Spray one litre Endosulfan 35 EC in 650 litres of water to control aphids in wheat.
- Monitor the pulse crops for pod borer attack and if the pest population crosses ETL, spray Endosulphan @ 500-750 ml / ha.

#### Haryana

Rain / thundershowers is likely over the State from afternoon of 24<sup>th</sup> February.

#### **Advisories**

- As there was quite excess rain during the week ending 14<sup>th</sup> February in Ambala, Chandigarh, Hissar, Jind, Karnal, Kurukshetra, Mahendragarh, Rohtak, Sirsa, and Yamunanagar districts of the State and rain/thundershower is likely over the State from afternoon of 24<sup>th</sup> February, apply light irrigation to sugarcane, wheat, horticultural crops, gram & lentil, and oilseed crops depending on soil profile stored moisture in these districts. Apply irrigation in the remaining districts of the State to the crops to bring soil to field capacity.
- Continue sowing of sunflower.
- Attack of late blight is reported in potato. In order to check further spread of the disease, spray Dithane M-45
   © 500 g / acre.
- Attack of stem borer and termite is reported in wheat. Spray Endosulfan 35 EC @ 1.5 ml / litre of water to control stem borer.
- Apply Aldrin 30 EC @ 5 litres / ha in irrigation water to control termite in wheat.

# Rajasthan

Weather remained mainly dry in the State.

Mainly dry weather is likely over the State.

#### **Advisories**

- Apply irrigation to mustard, wheat, gram, cumin and barley as rain / thundershowers is likely to occur at scattered places only after 24<sup>th</sup> February afternoon over the State.
- Monitor gram for pod borer and if the pest population crosses ETL, spray Monocrotophos or Endosulphan @ 1 ml / litre of water. Spraying may be continued on a non rainy day after 24<sup>th</sup>.
- Monitor wheat for termite attack and apply Endosulfan 35EC @ 2.285 litres / ha or Chloropyriphos 20 EC @ 4 litres /ha to control termite. Spraying may be continued on a non rainy day after 24<sup>th</sup>.
- Cloudy weather conditions are favourable for aphids attack in cumin and if the pest population crosses ETL, undertake plant protection measures.
- Monitor mustard for aphids attack and if the pests population crosses ETL, spray Endosulphan @ 1.25 litres/ha. Spraying may be continued on a non rainy day after 24<sup>th</sup>.

#### Uttar Pradesh

Weather was mainly dry in all divisions of the State.

Mainly dry weather is likely over the State. However rain / thundershower is likely over West Uttar Pradesh from afternoon of 24<sup>th</sup> February & isolated rain / thundershower over East Uttar Pradesh from 24<sup>th</sup> February night.

## **Advisories**

- There was no significant rain during last week and mainly dry weather is likely over the State for next three days except rain / thundershower is likely over West Uttar Pradesh from afternoon of 24<sup>th</sup> & isolated rain / thundershower over East Uttar Pradesh from 24<sup>th</sup> night. Under the circumstances, apply required irrigation to *rabi* oilseed crops, pulses and winter vegetable.
- To control the violet spot disease in Onion spray the solution of Mancozeb 0.2% @ 2gm / liter of water.
- To control fruit borer insect in pea and gram, spray the solution of Endosulphan 35 EC @ 2 litre / hectare in necessary amount of water.
- Monitor mustard crop for sawfly and *mahu* and if the pests population crosses ETL, spray Endosulphan @ 1.25 litres / ha to control the pests.
- Monitor mango for hopper and if the pest population crosses ETL, spray the solution of Carathane or Calixin
   @ 1ml / litre in water.
- Harvesting of winter vegetables and sugarcane may be continued.

# **Himachal Pradesh**

The precipitation occurred at many places in the State.

Mainly dry weather is likely over the State till forenoon of 24<sup>th</sup>, however scattered rain / snow is likely over the State from 24<sup>th</sup> February afternoon.

- As there was quite excess rain during the week ending on 14<sup>th</sup> February in Bilaspur, Hamirpur, Shimla, Sirmaur, Solan and Una districts of the State and mainly dry weather is likely over the State till forenoon of 24<sup>th</sup> and scattered rain / snow is likely from 24<sup>th</sup> February afternoon, apply light irrigation to vegetables, wheat, barley, gram, mustard and rapeseed depending on soil profile stored moisture in these districts. Apply irrigation in the remaining districts of the State to the crops to bring soil to field capacity.
- Continue land preparation and nursery sowing and transplanting of cauliflower and cabbage in low and mid hills.
- Apply second split dose of N @ 25 30 kg / ha at tillering stage of wheat.
- 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. Spraying can be repeated at 15 days interval, if the pest still persists.
- Undertake nursery preparation of onion with N-53 variety. Prepare land and also continue transplanting in

main field.

• Farmers are advised to arrange for smoking around the field to save the crops from cold injury. Also 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.

#### Uttarakhand

Light rain recorded at isolated places on 15<sup>th</sup> February and very light rain was recorded at isolated places on 15<sup>th</sup>, 18<sup>th</sup> & 19<sup>th</sup> February, while it remained mainly dry during rest of the week. Sky remained mainly clear to generally cloudy during the period.

Mainly dry weather is likely over the State till the forenoon of 24<sup>th</sup> February. However, scattered rain/snow is likely over the State from afternoon of 24<sup>th</sup> February.

#### **Advisories**

- There was no significant rainfall during last week and mainly dry weather is likely over the State till the forenoon of 24<sup>th</sup> February. However, scattered rain/snow is likely over the State from afternoon of 24<sup>th</sup> February. Under the circumstances, apply required irrigation to mango, potato and wheat crops.
- Continue harvesting of matured crops of sugarcane and pea.
- Monitor mango for mealy bug and gall midge. If the pest population crosses ETL, spray Monocrotophos @ 1 ml / liter of water to control mealy bug and spray Dimecron @ 0.3 ml / liter of water to control gall midge.
- Monitor litchi for mite attack. Spray Dimethoate @ 0.05% to control mite.
- Undertake planting of potato in hilly areas.

#### Jammu & Kashmir

Light to moderate rain / snow has occurred at a few places on 19<sup>th</sup> February and at isolated places on 21<sup>st</sup> February. Weather remained mainly dry on 20<sup>th</sup> February over J &K state.

Isolated rain / snow is likely over the State during next 24 hours and mainly dry weather till forenoon of 24<sup>th</sup> February. Scattered rain/snow activity is likely to commence again from 24<sup>th</sup> February afternoon.

## **Advisories**

- There are chances of cold / frost injury to horticultural crops in Jammu division. In order to protect the crops from cold / frost injury, farmers are advised to undertake the following measures.
  - Apply irrigation and arrange for smoke near the field to safeguard the crops from cold/frost 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.
- Conserve moisture in mustard, gram, lentil and peas where the crops are at maturity stage.
- Undertake transplanting of poplar from nursery to orchard areas. Cover the early planted saplings with *sarkanda* to prevent from cold injury.
- Continue sowing of bhindi, beans and cucurbits

## **Delhi**

Weather remained mainly dry.

Mainly dry weather is likely over the State. However, scattered rain / thundershower over the State is likely from afternoon of 24<sup>th</sup>.

- As there was no rainfall during last week over the State and only scattered rain / thundershower over the State is likely from afternoon of 24<sup>th</sup>, apply irrigation to vegetables, wheat, barley, gram and mustard.
- 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 Pusa Jyoti variety 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 on a non-rainy day.
- If purple bleach disease is noticed in onion, apply dithane M-45 or dithane Z-78 @ 2 kg / ha on a non-rainy day.

# Southern Region (AP, Tamilnadu, Karnataka and Kerala)

#### Kerala

Rain / thundershowers occurred at isolated places in the State on 19<sup>th</sup> & 20<sup>th</sup> February. Mainly dry weather prevailed on 21<sup>st</sup> February.

Mainly dry weather is likely over the State.

#### Advisories

- Apply irrigation to plantation crops as there was no rainfall during last few weeks and dry weather is likely to prevail for the next three days.
- Continue harvesting of matured crop of *mundakan* rice. Continue transplanting of *puncha* rice.
- Attack of leaf eating caterpillar and coried bug is reported in coconut. Cut and burn the affected leaves.
   Release larval and pupal parasitoids to control leaf eating caterpillar biologically. Spray Sevin @ 4 gm / litre of water to control coried bug.
- Attack of spindle bug is reported in arecanut. Spray Carbaryl @ 4 g / litre of water to control the pest.
- Attack of bunchy top disease is reported in banana. Apply 12.5% Phorate 10G or 10 g Carbofuran 3G / plant in leaf axil or 25 gm Phorate or 20 gm Carbofuran / pit in soil, 165 days after planting.
- Protect the plantation crops from scorching by applying lime.

## Tamilnadu

Rainfall occurred at one or two places over the State on 19<sup>th</sup> and 20<sup>th</sup> February and mainly dry weather prevailed on 21<sup>st</sup> February.

Mainly dry weather is likely over the State.

#### Advisories

- Apply irrigation to rice, millets, sunflower, pulses, cotton and groundnut as there was no significant rainfall
  for the last week except in Nagappattinam, Nilgiris, Pondicherry and Thirunelveli districts and dry weather is
  likely to prevail for the next three days. Apply irrigation depending upon soil profile stored moisture in the
  above mentioned districts.
- Continue planting of early sugarcane. Undertake sett treatment with *Pseudomonas fluorescence* @ 600 g / ha before planting.
- Undertake intercultural operation to keep the field weed free and application of fertilizers in maize, groundnut, cotton and sunflower.

#### Karnataka

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 19<sup>th</sup> & 20<sup>th</sup> February. Dry weather prevailed over the State on 21<sup>st</sup> February.

Mainly dry weather is likely over the State.

# **Advisories**

• Apply irrigation to groundnut, sunflower, sugarcane and rice as there was no significant rainfall during last few weeks and mainly dry weather is likely to prevail for the next three days.

- Monitor rice for leaf roller, stem borer and thrips and if the pests population crosses ETL, undertake plant protection measures.
- Monitor groundnut for thrips and if the pest population crosses ETL, undertake plant protection measures.
- Monitor ratoon sugarcane for army worm in Bidar and Bagalkote districts and if the pest population crosses ETL, undertake plant protection measures.
- Continue harvesting *rabi* crops like jowar, wheat, maize and sunflower.

#### **Andhra Pradesh**

Isolated rain occurred over Coastal Andhra Pradesh from 15<sup>th</sup> & 19<sup>th</sup> February and over Telangana on 16<sup>th</sup> & 17<sup>th</sup> February and over Rayalseema on 19<sup>th</sup> February. Generally dry weather prevailed elsewhere over the State during the rest of the week.

Mainly dry weather is likely to prevail over the State.

#### **Advisories**

- There was no significant rainfall during last week over the state except in Guntur, Nellore and West Godavari
  districts in Coastal Andhra Pradesh and mainly dry weather is likely to prevail over the State for the next three
  days. Under the circumstances, apply irrigation to *rabi* crops like maize, rice and groundnut to bring the soil
  moisture to its field capacity. Apply irrigation depending upon the soil profile stored moisture in the above
  mentioned districts.
- Attack of tikka leaf spot is reported in groundnut. To control the disease spray Dithane-M-45 @ 2 g / litre water or Carbendazim @ 1 g / litre water.
- Undertake weeding followed by application of urea in rice. Maintain 4-5 cm standing water in the field.
- Attack of blast is reported in rice. Spray Tricyclozole @ 0.5 g (or) Edfenophos @ 1 ml / litre of water. Also monitor the crop for stem borer and if the pest population crosses ETL, spray Methyl Parathion @ 350 ml / ha.
- Incidence of stem borer is noticed in maize. To control stem borer spray Endosulfan 2 ml / lit of water.
- Continue harvesting matured crop of Bengal gram.

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

#### Assam

Dry weather prevailed over the region.

Mainly dry weather is likely over the region.

- As there was no significant rain in the State during last week and mainly dry weather is likely over the State for next three days, apply irrigation to vegetables, Potato and Wheat.
- Maintain 3-5 cm water at tillering stage in the rice field.
- Continue harvesting of sugarcane, arhar, rapeseed and mustard, pea, lentil and potato. Red rot infested canes should be harvested early and field should be newly planted and rotooning should be discouraged.
- Mild incidence of pod and apion borer in arhar, late blight in tomato and Hispa, Brown Plant Hopper and blast and sheath blight diseases in rice is reported in a few localities.
- Monitor late blight of tomato and if crosses economic threshold level, spray Indofil M-45, alternatively Indofil Z-78 @ 25 gm in 10 litres of water.
- There is mild chance of attack of aphids and stem borer and leaf blight and leaf spot diseases in wheat. Apply Dimecron 100 E.C. @ 0.5 ml per litre of water or Malathion 50 E.C. @ 2 ml per litre of water to control aphids and stem borer. For control of leaf blight and leaf spot diseases apply Diathane Z -78 @ 2.5 gm per litre of water.

• Monitor attack Hispa, Brown Plant Hopper and blast and sheath blight diseases in rice. If crosses economic threshold level, to control Hispa and Brown Plant Hopper insecticides like Chloropyriphos 20E.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 diseases is controlled. For control of sheath blight diseases Carbendazim (Bavistin) @ 0.5 gm per litre of water is to be applied.

#### **Arunachal Pradesh**

Mainly dry weather is likely over the State.

#### **Advisories**

- As mainly dry weather is likely over the State for the next three days, apply required irrigation to mustard, wheat and ginger crops.
- Intercultural operation may be continued in mustard and ginger.
- Monitor mustard crop for aphid infestation. The crop should be protected from aphids by spraying of Metasystox (1 ml per liter water) or neem based insecticide (2 ml / litre of water) if crosses economic threshold level.
- Continue harvesting of matured crop of potato and winter vegetables.

#### Bihar

Weather was mainly dry.

Mainly dry weather is likely over the State.

#### Advisories

- There was no significant rainfall during last week and mainly dry weather is likely over the State for the next
  three days. Under the circumstances, apply required irrigation to potato, vegetables, maize, pulses, oilseeds
  and wheat.
- Apply split dose of N @ 25 30 kg / ha as top dressing at tillering stage of wheat.
- To protect the late sown rai crop from aphid and alternaria blight, spray mixed solution of acephate @ 800 g / ha plus Copper oxy-chloride @ 2.5 Kg / ha.
- Monitor *rabi* maize for pest and diseases and if there is considerable symptom of leaf blight on leaves spray Mancozeb @ 2.5 Kg / ha.
- Prepare land and continue sowing of summer vegetables like bhindi, bottle gourd and sponge gourd.
- Continue harvesting of matured potato crop.

#### **Jharkhand**

Weather remained mainly dry.

Mainly dry weather is likely over the State.

- There was no significant rainfall during last week and mainly dry weather is likely over the State for the next
  three days. Under the circumstances, apply required irrigation to vegetables, maize and potato, pulses, oilseed
  and wheat crops.
- Monitor wheat for termite attack. Spray Chlorpyriphos @ 2.5 ml / lite of water.
- If early Blight appears in potato and crosses economic threshold level, it may be protected by spraying of Mancozeb (2.5 g per liter of water) or Ridomil (1.5 g per litre of water).

- Beans, pulses and oilseed crops may be affected by aphids. If aphid population crosses economic threshold level, the crops are to be protected by application of neem based insecticide Nimarine or Venguard @ 5 ml per litre water or Metasystox @ 1 ml / litre of water.
- There is mild chance of attack of pod borer in arhar. If crosses economic threshold level, spray Monocrotophos @ 1ml / litre of water.

#### **Sikkim**

Sky remained generally cloudy during the period.

Mainly dry weather is likely over the State.

#### Advisories

- Conserve moisture where the standing crops are at maturity stage.
- Monitor large cardamom for stem borer and undertake plant protection measures to prevent further damage. Remove Chirkey and Foorkey affected plants and destroy the affected plants completely.
- Start land preparation and undertake sowing of maize after applying FYM / compost. Line sowing may be undertaken to ensure plant population.

## **West Bengal**

During the said period light to moderate rain occurred at isolated places over the districts of Sub-Himalayan West Bengal. However, weather was mainly dry over rest of the State.

Mainly dry weather is likely over the State.

#### Advisories

- As there was excess rainfall in 24 Pargana (S), Coochbehar, Darjeeling, Jalpaiguri and Malda districts of the State during last couple of weeks, postpone irrigation to the crops in these districts.
- As there was no significant rainfall during last week in remaining districts of the State and weather will be mainly dry for next three days, apply irrigation to gram, lentil, rapeseed and mustard, wheat and potato in these districts.
- Apply 25 30 kg N / ha at 3 weeks after transplanting of boro rice. Maintain 3 5 cm water in the field at tillering stage.
- Keep vigilance against outbreak of blast disease in *boro* rice. If disease infestation exceeds economic threshold level i.e. at least one leaf or 25 % of the leaves of the plant, spray water soluble Ediphenphos 50% @ 1 ml or Triamiphos 48% @ 1ml or Carbendazim 50% @ 1 gm or Tricycogol 75% @ 0.5 ml per litre of water. 750 litre of water is required for spraying 1 hectare of land.
- Monitor brown rust disease in wheat and in the event of occurrence of this disease, apply carboxyn or oxycarboxyn @ 1 gm per liter of water if more than 20 % plants are affected by the disease.
- Keep vigilance against infestation of loose smut disease of wheat. Wrap the disease affected inflorescence with wet gunny bag and burn the same to prevent spreading of the disease.
- Monitor Pod borer in gram and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 1000 ml or 25 EC Quinolphos @ 1000 ml / ha in 500 liters water.
- Attack of late blight disease is reported in potato in some areas of North Bengal. There is more chance of attack of late blight disease in potato under foggy condition. If attack crosses economic threshold level, apply mancozeb @ 2.5 g per litre of water at 7 10 days interval.

# 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 in the State during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to new sugarcane crop, castor, mustard, wheat and summer groundnut to bring the soil moisture to field capacity.
- Continue harvesting of already matured crops of sugarcane. Harvest the crop when brix reading of sugarcane is 19 or more unit.
- Prepare land and continue transplanting of rice seedling. Transplant 2 3 plants / hill. Maintain 2 3 cm water in rice field 2 3 days after transplanting. Maintain 3 5 cm water in the field wherever crops are at tillering stage.
- There is mild chance of attack of aphids, mustard saw fly and jassids in mustard. If aphid population exceeds economic threshold level, spray pesticides phosphamidon @ 4 ml or dimethoate @ 10 ml or monocrotophos @ 12.5 ml in 10 liter water as per requirement. Second spray 10 to 15 days after first spray if required or dust the methyl parathion 2% powder or quinalphos 1.5 % @ 25 kg / ha.
- There is mild chance of attack of semi looper in castor. If semi looper population exceeds economic threshold level, spray endosulphan 35 EC or quinalphos 25 EC or Monocrotophos 36% SL at the interval 15 days.
- Prepare field for sowing of summer groundnut by 1 or 2 ploughings. Before ploughing apply 8 to 10 MT compost or 1 MT castor cake in the field. Select varieties from J-11, GG-2, 4, 6, TG-26, ICGS-37, 44. Adopt spacing of 22.5 to 30 cm between the rows. Apply 25 kg N, 50 kg P<sub>2</sub>0<sub>5</sub> / ha at the time of sowing as basal dose.
- Prepare field for sowing of summer bajra by 2 or 3 deep ploughings. Select varieties from GHB-526, 558. Apply 60 kg N, 60 kg P<sub>2</sub>0<sub>5</sub> / ha at the time of sowing as basal dose.

#### **Chhattisgarh**

Weather remained dry.

Mainly dry weather is likely over the State.

#### Advisories

- As there was no significant rain in the State during last few weeks and mainly dry weather is likely over the State for next three days, apply irrigation to sugarcane (new crop), vegetables, gram, mustard, potato, linseed and wheat and also to early sown sunflower wherever crops are at vegetative stage.
- Continue preparation of land and sowing of sunflower and planting of new crop of sugarcane.
- Select varieties from CO-62175, C.O.L.K.-8001 etc. for planting of sugarcane. Use top 1/3<sup>rd</sup> portion of the cane as a seed for best germination. Dip 2-3 eyes pieces in a solution of Agelal or Bavistine fungicide (2gm / lit of water) for 30 minutes before planting.
- Attack of stem borer is reported in wheat. Monitor stem borer population in wheat and if crosses economic threshold level, apply demecron 85 EC @ 2 ml / 3 litres of water.
- Monitor Pod borer in gram and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 1000 ml or 25 EC Quinolphos @ 1000 ml / ha in 500 liters water.

#### Maharashtra

Mainly dry weather prevailed all over the State.

Mainly dry weather is likely over the State.

- As there was no rain during last few weeks in the State and mainly dry weather is likely over the State for next three days, apply irrigation to *rabi* jowar, safflower, *rabi* maize, potato, onion, sugarcane (Pre-seasonal) and wheat.
- Apply 136 kg Nitrogen / ha along with 85 kg each of P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O after 12 to 16 weeks from planting of

sugarcane (Pre-seasonal).

- Prepare land for sowing of summer groundnut. For sowing select a variety from SB-11, M-13, GT-26, TAG-24, TPG-41 & Koyna.
- Prepare land and continue transplanting of rice seedlings. Transplant 3-4 seedlings / hill at the time of transplanting. Maintain 2-3 cm water in the field after 3-4 days of transplanting.
- Prepare land for sowing of summer sunflower. For sowing select an improved variety from EC-68414, Morden & SS-56 & hybrid variety from KBSH-11 & APSH-11.
- Prepare land for sowing of summer bajra. For sowing select a variety from Sradha & Saburi.
- Mild incidence of White Woolly Aphids in Pune, Kolhapur and Aurangabad & Pyrilla & White fly in Nashik in sugarcane, Aphids and Leaf cater pillar in Nashik division, Sugary disease in Pune and aphids in Kolhapur division in *rabi* jowar, Aphids in Kolhapur division in safflower, Rust in Kolhapur division in wheat and Pod borer in Pune, Aurangabad, Amravati and Nashik division in gram is reported.
- Monitor infested plant by Sugary disease, aphids in *rabi* jowar & if exceeds economic threshold level, spray 5% Neem extract or Diamethoate 500 ml or Methyl Dimeton 400 ml or Monocrotophos 300 ml / ha in 500 liter water. Spraying may be repeated after 10 15 days.
- Monitor Aphids in Safflower and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 700 ml or 25 EC Quinolphos @ 1000 ml/ha in 500 liter water. Second spraying may be done after 15 days.
- Monitor infested plant by Rust in wheat and if exceeds economic threshold level, spray 75 % Mancozeb 1500 gm + Urea 20 kg/ha in 500 liter water.
- Monitor Pod borer in gram and if exceeds economic threshold level, spray 5 % Neem extract or spray 35 EC Endosulphon @ 1000 ml or 25 EC Quinolphos @ 1000 ml / ha in 500 liters water.

# Madhya Pradesh

Dry weather prevailed over the State.

Mainly dry weather is likely over the State. Isolated rain / thundershower is likely over the State from 24<sup>th</sup> February.

#### Advisories

- Conserve moisture in wheat, gram, mustard, *masoor* and linseed as the crops are at maturity stage. Apply irrigation to irrigated wheat.
- Monitor wheat for *kandwa* disease and remove and destroy the affected plants completely to prevent further spread of the disease.

#### Orissa

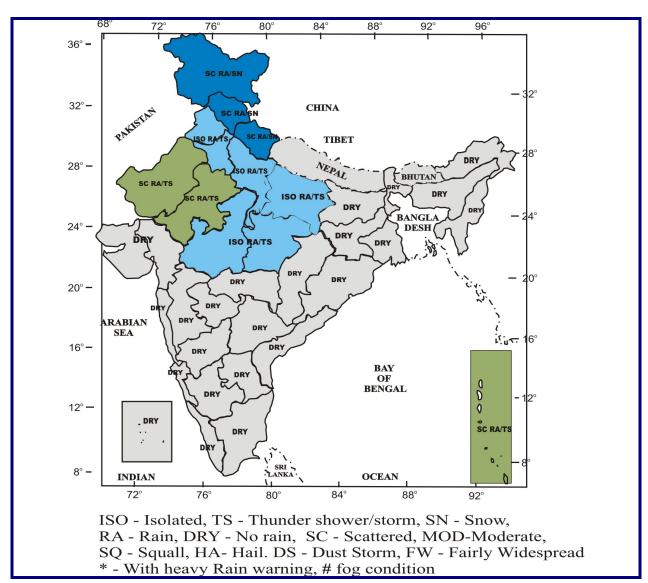
Weather was dry over the State during the above period.

Mainly dry weather is likely over the State.

- As there was no significant rain during last week except in Cuttack, and Jagatsingpur districts and mainly dry
  weather is likely over the State for next three days, apply required irrigation to mustard, vegetables, groundnut
  and pulses. Apply irrigation in the above mentioned districts depending on soil profile stored moisture.
- Prepare land with basal application of 50 kg N, 50 kg P<sub>2</sub>O<sub>5</sub> and 50 kg K<sub>2</sub>O / ha and complete transplanting of *Dalua* Rice. Apply 16 kg Nitrogen per acre as first top dressing for early transplanted crops.
- Prepare land with basal application of 8 kg N, 16 kg P<sub>2</sub>O<sub>5</sub> and 16 kg K<sub>2</sub>O and start sowing of summer groundnut. Select varieties from Smruti and AK 12-24.
- Continue sowing of summer *moong* with basal application of 8 kg N, 16 kg P<sub>2</sub>O<sub>5</sub> and 8 kg K<sub>2</sub>O / acre.

- Monitor the mustard crop for saw fly and spray Endosulfan @ 2 ml / litre of water to control the pest if it crosses economic threshold level (ETL).
- If powdery mildew in cucurbits crosses ETL, spray Mancozeb @ 4 g / litre of water.
- Monitor brinjal and tomato for wilt and if it crosses ETL, spray 1.5 g Streptocycline and 20 g copperoxychloride in 10 litre of water.
- Monitor thrips in chillies and if it crosses ETL, spray 300 ml Ethion or 400 ml Dimethoate per acre.

# Forecast Map Valid upto 25th February 07



# Salient weather features for the week ending 21/02/07

#### **METEOROLOGICAL ANALYSIS**

• Last week's western disturbance as an upper air system over East Uttar Pradesh and adjoining Bihar lay over Assam & Meghalaya on 15<sup>th</sup> February, over east Arunachal Pradesh and adjoining Assam on 16th and moved away eastwards on 17<sup>th</sup> February. However, another upper air cyclonic circulation lay over Bangladesh and neighbourhood at lower levels on 17<sup>th</sup> and 18<sup>th</sup> February.

- A fresh western disturbance affected Western Himalayan region during 16-18<sup>th</sup> February. Another western disturbance affected the region from afternoon of 20<sup>th</sup> February.
- An easterly wave affected south peninsula and Lakshadweep islands during 17-21<sup>st</sup> February.

#### **RAINFALL**

Under the influence of the above systems:

- Isolated to scattered rain/snow occurred over Jammu & Kashmir and Himachal Pradesh during many days of the week.
- Isolated rain/thundershower occurred over Punjab on 15th & 19th and over Rajasthan on 16<sup>th</sup> and 18<sup>th</sup> February.
- Rain/thundershower occurred at isolated places over West Bengal & Sikkim during first half of the week and over Orissa and Jharkhand on 17<sup>th</sup> and 18<sup>th</sup> February.
- Scattered/fairly widespread rain/thundershower occurred over northeastern States during 15-18<sup>th</sup> February.
- Isolated/scattered rain/thundershower occurred over Coastal Andhra Pradesh on 18<sup>th</sup> February, over Tamil Nadu during 18-20<sup>th</sup> February, over Kerala during 19-21st and over Lakshadweep Islands on 20<sup>th</sup> and 21<sup>st</sup> February.
- Mainly dry weather prevailed over the remaining parts of the country during the week.

#### **MINIMUM TEMPERATURES**

- The Minimum temperatures were generally normal over northwest India outside Punjab, where they were below normal by 2-3 °C on 15<sup>th</sup> February and 18<sup>th</sup> February and normal during remaining days of the week
- They were below normal by 2-3 °C over east India on 15<sup>th</sup> and 19<sup>th</sup> February, over West Bengal & Sikkim on 16<sup>th</sup> February, over Bihar on 17<sup>th</sup> February, over East Uttar Pradesh on 18<sup>th</sup> February and over Jharkhand and Orissa on 20<sup>th</sup> and 21<sup>st</sup> February. They were normal over these subdivisions on remaining days of the week.
- They were above normal by 2-3 °C on 15<sup>th</sup>, below normal by 2-3°C on 16<sup>th</sup> February and 19-21<sup>st</sup> February and normal on 17<sup>th</sup> February over northeast India. They were below normal by 2-3 °C over Assam & Meghalaya and normal over remaining parts of northeast India on 18<sup>th</sup> February.
- They were above normal by 2-4 °C over Rajasthan and Gujarat throughout the week. They were normal on remaining parts of west India during the week except on 15<sup>th</sup> February and 17<sup>th</sup> February, when they were below normal by 2-3 °C.
- They were normal over central India during the week except over West Madhya Pradesh where they were above normal on 16<sup>th</sup> and 19<sup>th</sup> to 21<sup>st</sup> February.
- They were normal over south India except over Tamil Nadu where they were above normal by 2-3°C on many days during the week.

## RAINFALL DURING THE WEEK ENDING ON 21<sup>ST</sup> FEBRUARY, 2007.

Rainfall was excess/normal in 4, deficient/scanty in 22 and no rain in 10 out of 36 meteorological subdivisions (Actual: 3.0 mm, Normal: 7.0 mm and Departure: -57%).

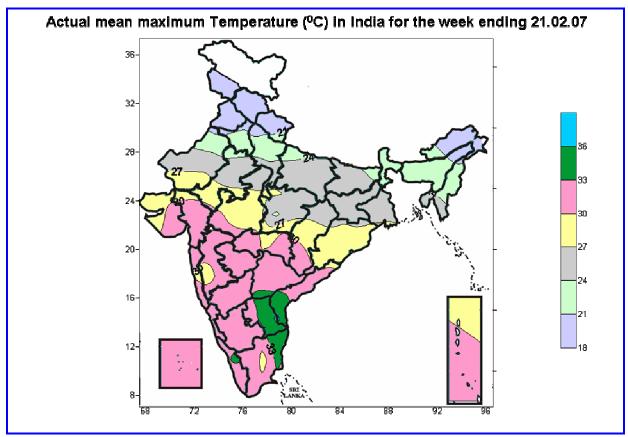
# CUMULATIVE SEASONAL RAINFALL (1<sup>ST</sup> JANUARY TO 21<sup>ST</sup> FEBRUARY, 2007)

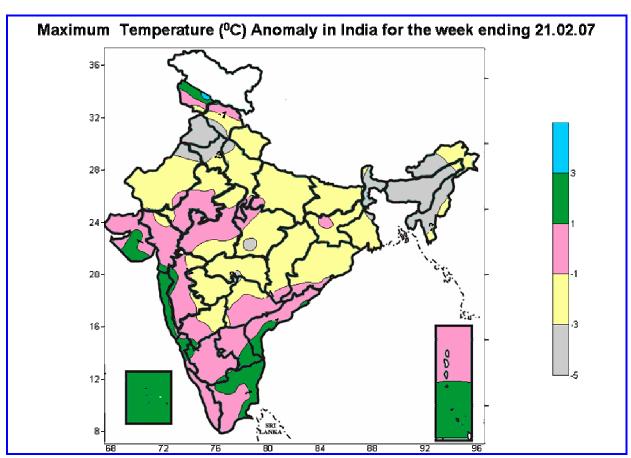
Rainfall was excess/normal in 14, deficient/scanty in 21 and no rain in 1 out of 36 meteorological subdivisions. (Actual: 26.8 mm, Normal: 37.7 mm and Departure: -29%).

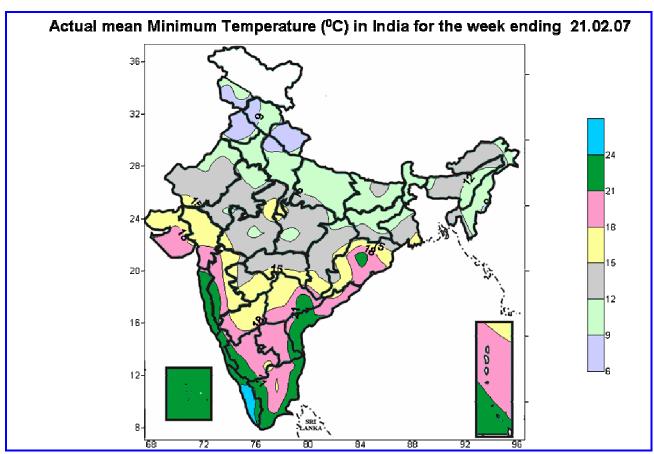
# OUTLOOK FOR THE WEEK ENDING ON 28<sup>TH</sup> FEBRUARY, 2007.

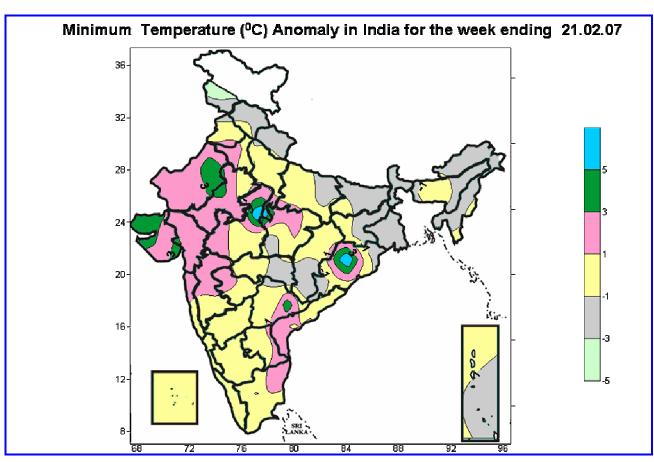
- Due to a western disturbance, isolated to scattered rain/thundershower is likely over northwest & Central India on 25<sup>th</sup> February, over east India on 25<sup>th</sup> & 26<sup>th</sup> February and over northeast India on 26th.
- Another western disturbance is likely to affect Western Himalayan region and adjoining plains towards the end of the week.
- Isolated to scattered rain/thundershowers likely over extreme south peninsula during 2<sup>nd</sup> half of the week.

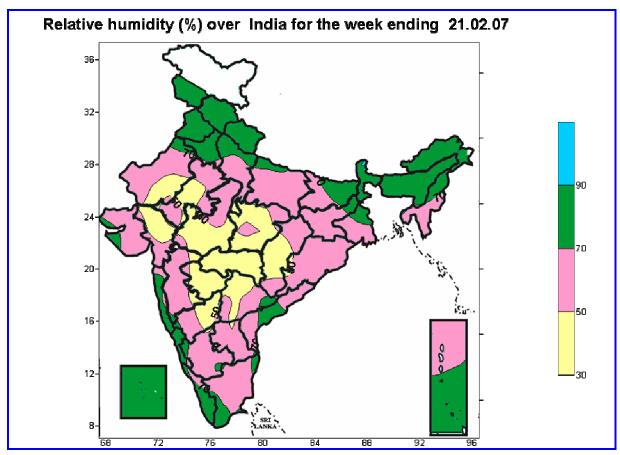
# Contour maps for the week ending 21st February, 2007

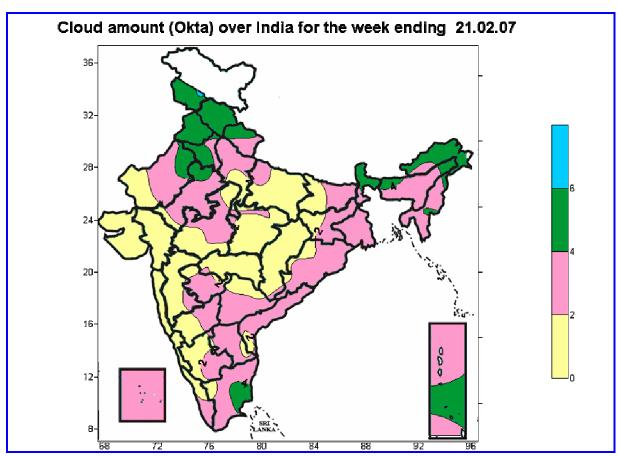


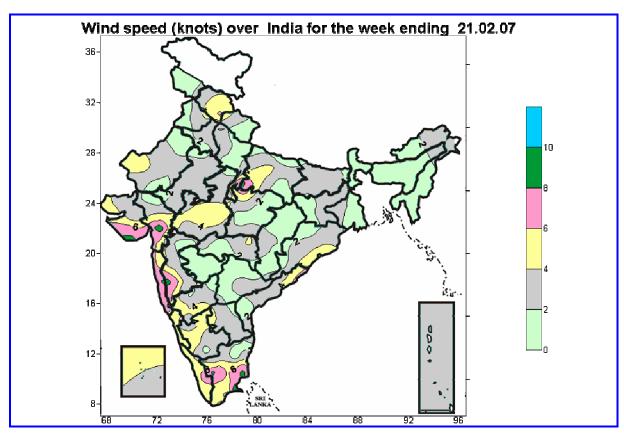














Rainfall (mm)							
Station Name	15.02.07	16.02.07	17.02.07	18.02.07	19.02.07	20.02.07	21.02.07
Amritsar							
Barmer							
Sriganganagar				NIL			
Jaisalmer				1,122			
Kota							
Deesa							
Churu							

Temperature (degree celcius)							
Station Name	15.02.07	16.02.07	17.02.07	18.02.07	19.02.07	20.02.07	21.02.07
Amritsar	11.5	11.5	12.5	13.5	11.5	13.0	13.5
Barmer	20.0	20.5	20.0	22.5	22.0	21.5	-
Sriganganagar	13.0	14.0	13.5	16.0	14.5	16.0	-
Jaisalmer	20.0	-	19.5	21.5	20.5	18.5	21.0
Kota	18.5	20.0	21.0	20.0	22.0	22.5	22.0
Deesa	21.0	21.5	21.5	22.0	23.0	24.0	25.0
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/Gram	
Vegetative	Sowing/ Transplanting	Vegetative/ flowering/ fruiting/ harvesting	Tillering	Flowering/Pod formation	
		Haryana			
Horticultural crop	Sugarcane	Gram /Lentil	Rabi oilseeds	Wheat	
Vegetative	Vegetative	Pod formation	Flowering	Tillering	
Toria	Sunflower	Tod formation	Tiowering	Timering	
Harvesting	Sowing				
That vesting	Bowing	Himachal Pradesh			
Wheat	Gram	Summer vegetables (Cauliflower, Cabbage in low and mid hills)	Vegetables (Tomato, brinjal, ladies finger)	Barley	
Tillering	Flowering/Pod formation	Nursery sowing /Transplanting  Vegetative/flowering / fruiting / harvesting		Vegetative	
Onion	Rape seeds and Mustard	Fruit plants			
Nursery preparation	Vegetative/ Flowering	Prune			
* * *		Jammu & Kashmir		•	
Vegetable crops	Toria / Brown Sarson	Mustard	Pea/Lentil/Gram	Wheat / Barley	
Flowering/ Fruiting/ Harvesting	Maturity / harvesting	Maturity	Pod maturity	Grain formation	
		Punjab			
Sugarcane	Rabi oilseeds	Gram/Lentil	Horticultural crop	Wheat	
Vegetative	Flowering	Pod formation	Vegetative	Tillering	
Toria	Sunflower			-	
Harvesting	Sowing				
8	8	Rajasthan		L	
Mustard	Wheat	Cumin	Gram	Barley	
Siliqua development	Grain formation	Seed formation	Pod development	Grain formation	
		Uttar Pradesh			
Wheat / Barley	Rabi pulses	Sugarcane	Mango	Winter Vegetables	
Vegetative/Flowering	Flowering /seed formation	Harvesting	Flowering / matured tree	Vegetative/ flowering/harvesting	
Rabi Oilseeds( Rai and Mustard)  Flowering /seed formation					
Tormation		Uttarakhand			
Pea	Mango/Litchi	Wheat	Sugarcane	Potato	
Harvestring	Flowering	Flowering	Maturity / harvesting	Tuber growth	
Apple	210	_ 10 011116		23321 813 11 11	
Flowering					
Flowering		Assam			
_	Sugarcane	Assam Wheat	Boro Rice	Potato	
Vegetables	Sugarcane	Wheat	Boro Rice	Potato Tuber growth /	
_	Sugarcane Harvesting		Boro Rice Tillering	Potato Tuber growth / maturity	
Vegetables Vegetative/ Flowering/	-	Wheat		Tuber growth /	
Vegetables Vegetative/ Flowering/ Fruiting/ Harvesting	Harvesting	Wheat Flowering/Milk/Dough		Tuber growth /	
Vegetables Vegetative/ Flowering/ Fruiting/ Harvesting Pea and Lentil Pod maturity/	Harvesting Arhar	Wheat Flowering/Milk/Dough Rape seed and Mustard		Tuber growth /	
Vegetables Vegetative/ Flowering/ Fruiting/ Harvesting Pea and Lentil Pod maturity/	Harvesting Arhar	Wheat Flowering/Milk/Dough Rape seed and Mustard Pod maturity/ Harvesting		Tuber growth /	
Vegetables Vegetative/ Flowering/ Fruiting/ Harvesting Pea and Lentil Pod maturity/ Harvesting	Harvesting  Arhar  Maturity/Harvesting	Wheat Flowering/Milk/Dough Rape seed and Mustard Pod maturity/ Harvesting Arunachal Pradesh Potato Harvesting	Tillering	Tuber growth / maturity	
Vegetables Vegetative/ Flowering/ Fruiting/ Harvesting Pea and Lentil Pod maturity/ Harvesting  Mustard Flowering	Harvesting  Arhar  Maturity/Harvesting  Ginger  Vegetative	Wheat Flowering/Milk/Dough Rape seed and Mustard Pod maturity/ Harvesting Arunachal Pradesh Potato Harvesting Bihar	Tillering  Wheat Flowering	Tuber growth / maturity  Winter vegetables Harvesting	
Vegetables Vegetative/ Flowering/ Fruiting/ Harvesting Pea and Lentil Pod maturity/ Harvesting  Mustard	Harvesting Arhar Maturity/Harvesting Ginger	Wheat Flowering/Milk/Dough Rape seed and Mustard Pod maturity/ Harvesting Arunachal Pradesh Potato Harvesting	Tillering  Wheat	Tuber growth / maturity  Winter vegetables	

Potato	Rabi Oil seeds (Toria, Sarson, Linseed)		ses (Lentil, n, Pea)			
Tuber growth / maturity	Pod formation / maturity	Pod formati	ion / maturity			
		Jharkha	nd 	1		
Boro rice Rabi I				Vheat	Potato	
Transplanting	Tasseling / sil formati	_	Flowering		Tuber formation	
Rabi vegetables (Toma Cabbage, Cauliflowe Brinjal, Chilli)		getables	Rabi pulses and oilsee (Gram, masoor, lenti linseed, oat, mustard a kusum)			
Flowering / Ffruiting/Harvesting	Sowing	g	Pod formation/maturity			
		Sikkir		1		
Maize	Mustard	Rabi vegetables		Wheat	Large Cardomom	
Sowing	Siliqua Maturity	End Harvesting		Grain formation/develop nt	me Vegetative	
		West Bei	ngal			
Boro rice	Sugarcane	Wheat		Rapeseed and Mustard	Gram/ Lentil	
Early vegetative / tillering	Cane maturity / harvesting	_	g / Milking / ough	Pod formation / maturity / harvesti		
Early transplanted Boro rice	Potato					
Early vegetative/Tilllering	Tuber growth / maturity / harvesting					
	Vegeteller /T	Chattisg	arh	<b>N</b> T		
Gram / Mustard	Vegetables (Tomato, chilli, brinjal)	Sugarcane		New crops Sugarcane	Wheat	
Pod formation / early maturity	Vegetative / Flowering/ Fruiting / harvesting	Maturity/Harvesting		Planting	Flowering / Milk/Dough	
Sunflower	Early Sown Sunflower	Summer Vegetables		Potato	Early sown Sugarcane	
Field preparation / sowing	Germination / early vegetative / vegetative	Sowing		Tuber growth / Maturity	Sprouting/Early vegetative/vegetative	
Seed formation / early maturity						
maturity		Gujar	at			
Mustard	Wheat		er Rice	Castor	Summer Bajra	
Pod formation/	NCH (D. )	T.	1	Spike	Land	
Maturity/Harvesting Kharif Cotton	Milk/Dough Summer Groundnut	Transplantation  Early sown Groundnut		formation/Maturi Sugarcane		
	Land	·		Maturity /		
Picking  Early Sown Sugarcane	preparation/sowing Early Sown Rice	Germination/Vegetative		Harvesting	Planting	
Sprouting/Early	Early					
vegetative/Vegetative	vegetative/Tillering					
	<u> </u>	Maharas	htra	Wheat (Madhy	a Gram (Madhya	
Sugarcane (Seasonal) (Madhya Mahrashtra, Marthwada and Vidarbha)	Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	Maha Maratl	r (Madhya rashtra, nwada & nrbha)	Maharashtra, Marathwada, Vidarbha &	Maharashtra, Marathwada, Vidarbha &	
<u> </u>				Konkan)	Konkan)	
cane maturity / harvesting	Grain formation/grain maturity / harvesting		ation /(Head some places)	Milk/Dough	Pod maturity / harvesting	
Rabi Maize	Rabi Sunflower	Sugarcane	Preseasonal			
(Madhya Maharashtra,	(Madhya Maharashtra,	(Madhya M	Iaharashtra,			
Marathwada,	Marathwada &		ıwada &			
Vidarbha & Konkan)	Vidarbha)	Vida	ırbha)			
Cob formation/Cob	Seed maturity /	Sprouti	ng / early			
maturity/Harvesting	harvesting		etative			

Potato (Madhya Maharashtra, Marathwada & Vidarbha)	Onion (Madhya Maharashtra, Marathwada & Vidarbha)	Summer Groundnu (Madhya Maharashtı Marathwada, Vidarb & Konkan)	ra, Summer Rice	Summer Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)				
Tuber growth / tuber maturity	Bulb formation/bulb growth	Land preparation/sowi	ng Germination / seedling	Land				
Summer Bajra	Summer Groundnut							
(Madhya	(Madhya							
Maharashtra,	Maharashtra,							
Marathwada &	Marathwada,							
Vidarbha)	Vidarbha & Konkan)							
Land preparation/Sowing	Germinatio/Seedling							
Т		Madhya Pradesh		1				
Irrigated Wheat	Mustard	Gram	Masoor	Linseed				
Grain formation	Matuirty	Matuirty	Matuirty	Matuirty				
Wheat								
Grain maturity								
		Orissa						
Vegetables	Dalua Rice	Mustard	Pulses	Rabi Groundnut				
Flowering / Fruiting / Harvesting	Transplanting	Pod formation/ pod maturity	Flowering / pod formation	Pod formation/ Pod maturity				
Sugarcane	New Sugarcane crop	Early transplanted Dalua Rice	Early Dalua Rice					
Maturity / harvesting	Planting	Tillering	Tillering					
Andhra Pradesh								
Rabi Groundnut	Rabi Maize	Gram	Rabi red gram	Rabi rice				
Pod formation/Development	Cob development	Harvesting	Pod Maturity	Tillering				
		Karnataka						
Sugarcane (Ratoon crop)	Rabi Wheat	Rabi jowar, Sunflower and maize	Summer groundnut and Sunflower	Summer rice				
Vegetative	Harvesting	Harvesting	Vegetative	Transplanting ( some places) / Vegetative				
		Kerala						
Rubber	Mundakan rice	Puncha rice						
Tapping	Harvesting	Field preparation / transplanting						
	•	Tamil Nadu						
Rice (Navarai)	Thaladi Rice	Cotton	Rice fallow Pulses (Blach gram and Green gram)	Oilseeds (Groundnut)				
Tillering	Raising nursery	Vegetative	Vegetative	Vegetative				
Sunflower	Maize	Early planted Sugarcane	Sugarcane (Early season)	-				
Vegetative	Vegetative	Early vegetative/Vegetativ	Planting					

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