

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

Agricultural Meteorology Division, India Meteorological

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(For the period 5^h October to 9th October, 2006) The extended version of the bulletin is also available at <u>http://imdagrimet.org</u>

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

Punjab & Haryana

Punjab

Weather remained dry over the State.

Mainly dry weather is likely over the State.

Advisories

- Weather was dry in the State during last week and weather is likely to be mainly dry in the State for the next three days. Under the circumstances, apply required irrigation to sugarcane and cotton to bring the soil moisture to its field capacity.
- Conserve moisture wherever the crops are at maturity stage.
- Cotton crop is susceptible to the incidence of bollworm and other leaf eating caterpillar. Farmers are advised to apply integrated pest management with application of synthetic pyretheroid to check the same, if damage exceeds economic threshold level. Also undertake plant protection measures against spotted boll worm by spraying Quinalphos @ 1.5-2 litres/ha in 800 litres of water.
- Incidences of shoot borer and Gurdaspur borer are reported in sugarcane. Spray Nuvacran @ 1.5 litres of water to control the pests, if the pests population exceeds ETL.
- Farmers are advised to monitor the locust and carry out antilocust operations i.e. spray of pesticides on standing crops and vegetation.
- Undertake sowing of berseem along with javi and sarson by utilizing the residual moisture. Also conserve excess soil moisture to take up sowing of *rabi* crops.

Haryana

Weather remained dry over the State

Mainly dry weather is likely over the State.

- Weather was dry in the state during last week and dry weather is likely to prevail for the next three days. Under the circumstances, apply required irrigation to horticultural crops, sugarcane and cotton to bring the soil moisture to its field capacity.
- Conserve moisture wherever the crops are at maturity stage.
- Incidences of boll worm are reported in cotton. Spray Monocrotophos @ 1.5 litre/ha in 800 litres of water to control the pests, if the pests population exceeds ETL.
- Farmers are advised to monitor the locust and carry out antilocust operations i.e. spray of pesticides on standing crops and vegetation.
- Undertake sowing of berseem by utilizing the residual moisture. Also conserve excess soil moisture to take up sowing of rabi crops.

Rajasthan

Light to moderate rainfall recorded at isolated places in Kota division. Weather remained mainly dry in rest divisions of the state.

Mainly dry weather is likely over the State.

Advisories

- As all the standing crops in the state are now at maturity stage, conserve moisture in the soil.
- Start harvesting matured crops of bajra, maize and pulses.
- This is proper time for sowing mustard. Start land preparation and apply Gypsum @ 250 kg/ha before sowing.

Uttar Pradesh

Rain occurred at isolated places in Varanasi division on 2^{nd} October, in Varanasi and Jhansi divisions on 3^{rd} October and in Allahabad, Lucknow and Jhansi divisions on 4^{th} October. It was at a few places in Gorakhpur, Varanasi, Faizabad divisions on 4^{th} October. Weather was mainly dry in remaining divisions of the State from 2^{nd} to 4^{th} October.

Weather will be mainly dry in the State.

Advisories

- There was no significant rain in the State during last week and mainly dry weather is likely to prevail over the State for the next three days. Under the circumstance apply irrigation to bring the soil moisture to its field capacity.
- Continue weeding and hoeing, along with top dressing of nitrogen in rice
- Complete the sowing of *toria* using residual soil moisture.
- Monitor sugarcane for borer pests and to control Agala borer spray the solution of Endosulphon 35EC @ 1.25 litre / hectare in water if the population exceeds E.T.L.
- Monitor pulse crops for leaf roller attack. If the population crosses ETL, spray Endosulphan @ 1.5 litres/ha.
- To control gummosis disease in mango spray solution of Napthalene Acetic Acid 200 PPM and 4ml planofix in 9 litre in water.

Himachal Pradesh

The weather was mainly dry during the week in the State.

Mainly dry weather is likely over the State.

- As there was no rain during last week and mainly dry weather is likely over the State for next three days, apply irrigation to maize, moong, potato and early sown vegetable crops to bring the soil moisture to field capacity.
- Conserve soil moisture wherever the crops are at maturity stage.
- Harvest the matured rice, maize and apple crops.
- Continue land preparation and sowing of Arcle peas in the high hills, sowing of radish, turnip and carrot, preparation of nursery of cauliflower and cabbage in lower hills and transplanting of cauliflower and cabbage in mid hills.
- Monitor the crop for attack of citrus leaf minor, if attack crosses economic threshold level, spray Nuvan

@ 1ml per litres of water and repeat spray if it persists.

Uttaranchal

Mainly dry weather prevailed during the week. Sky remained mainly clear to partly cloudy.

Mainly dry weather is likely over the State.

Advisories

- Weather was dry in the state during last week and mainly dry weather is likely to prevail over the State for next 3 days. Under the circumstances, apply irrigation to mango, apple, sugarcane and vegetable crops to bring the soil moisture to its field capacity.
- Maintain 5 7 cm water in rice field.
- Carry out intercultural operation, application of fertilizer and plant protection measures to mango, apple, sugarcane and rice crops.
- Continue sowing toria, pea and potato.

Jammu & Kashmir

Weather remained mainly dry over J & K state.

Weather is likely to be mainly dry in J & K state.

Advisories

- Keep vigil against **desert locust** to prevent crop damage.
- Mainly dry weather prevailed during last week and dry weather is likely to prevail in J & K State for the next three days. Under the circumstances, apply required irrigation to vegetables, pulses, rice and maize to bring the soil moisture to its field capacity.
- Monitor pulse crops for hairy caterpillar and jassid due to prevailing weather conditions. If it crosses economic threshold level, spray Malathion @ 0.05% to control the pest.
- Continue sowing of carrot, beet root and turnip for seed crop in Jammu division. Undertake transplanting of methi, palak, coriander, radish, cabbage and knol-khol in Kashmir division.
- Continue sowing of toria crop in Jammu division and brown sarson, lentil and wheat in Kashmir division to utilize residual moisture. Before sowing, undertake ploughing followed by planking to conserve moisture.

Delhi

Mainly dry weather is likely over the State.

Weather remained mainly dry on remaining days.

- As there was no rainfall during last week and mainly dry weather is likely over the State for next three days, apply irrigation to early sown *kharif* vegetable crops, fodder crops, maize, arhar, mustard and bajra to bring the soil moisture to its field capacity.
- Prepare land and continue transplanting of 4 6 weeks old early varieties of cauliflower and cabbage plants. Also undertake transplanting of brinjal and chilly.
- Also prepare nursery for cabbage varieties like Golden Acre, Pusa Ageti and mid time cauliflower varieties like Pusa Synthetic, Pusa Subhra and Pusa Himjyoti.
- Prepare land and perform sowing of Pusa Reshmi variety of raddish, Pusa Kesar variety of carrot and Pusa Kanchan variety of turnip.
- Prepare land and continue sowing of toria, mustard, Berseem.

• Monitor ergot disease of bajra and if noticed, remove the plants and burn them well outside the field.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

Southwest monsoon was weak over the State on 3^{rd} & 4^{th} October. Rain occurred at a few places on 4^{th} October and at isolated places on 3^{rd} October.

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

Advisories

- There was no significant rainfall during last week and rainfall is likely to occur at a few places in the State for the next three days. Under the circumstance, apply irrigation to plantation crops to bring the soil moisture to its field capacity.
- Continue intercultural operations and fertilizer application on a non rainy day in arecanut, coconut, pepper, rubber and banana.
- Attack of leaf spot, bunchy top and pseudostem weevil is reported in banana. Spray Bordeaux mixture @ 1% to control leaf spot. Eradicate the bunchy top affected plants and apply Phorate @ 25 g/pit before planting to prevent attack of bunchy top in new plants. Spray Chlorpyriphos @ 2.5 ml/litre of water to control pseudo stem weevil. Spraying of chemicals may be continued on a non rainy day.
- Attack of rhinoceros beetle and red palm weevil insects and stem bleeding disease is reported in coconut. Hook out the beetles from the affected palms and fill the leaf axils with Sevidol 8 G @ 25 gm and fine sand 200 gm. Use Pheramone trap for controlling red palm weevil. Cut stem bleeding affected region and paste with coal tar. Spraying of chemicals may be continued on a non rainy day.

Tamilnadu

Rainfall occurred at isolated places over the State on 2nd, 3rd and 4th October.

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

Advisories

- There was no significant rainfall except in Chennai, Dharmapuri, Nagappattinam, Namakkal, Perambalur, Salem, Pondicherry and Thanjavur districts during last week and rain/ thundershowers is likely to occur at isolated places over the State for the next three days. Under the circumstances, apply required irrigation to pulses, early/mid sugarcane and millets to bring the soil moisture to its field capacity. Apply irrigation depending upon soil profile stored moisture in the above mentioned districts.
- Continue intercultural operations to keep the field weed free and application of fertilizers and pesticides to early/mid sugarcane and kar rice.
- Monitor sugarcane for internode borer. Release *Trichogramma chilonis* parasite @ 5 cc/ha to control the pest. Repeat after 15 days.
- Complete harvesting late season sugarcane. Continue picking matured *kapas* of cotton.

Karnataka

Monsoon was active on all the days over Coastal Karnataka. Over North Interior Karnataka, it was weak on $2^{nd} \& 4^{th}$ October. Over South Interior Karnataka, it was weak on all the days. Rainfall occurred at a few places on $2^{nd} \& 3^{rd}$ and at isolated places on 4^{th} October over North Interior Karnataka. Over South Interior Karnataka, rainfall occurred at isolated places on all the days.

Rain/thundershowers likely to occur at many places over Coastal Karnataka & at a few places over Interior Karnataka.

Warning: Isolated heavy rainfall likely over Coastal Karnataka.

Advisories

- Postpone irrigation, intercultural operations and application of fertilizers in Coastal Karnataka as rain/thundershowers likely to occur at many places for the next three days.
- Arrange for drainage facilities as heavy rainfall is likely to occur at isolated places.
- There was no significant rainfall in Interior Karnataka during last week. Rain/thundershowers are likely at few places for the next three days. Under the circumstance, apply irrigation to sugarcane, maize, jowar and groundnut crops depending upon soil profile stored moisture.
- Weeding, application of fertilizers and pesticides and intercultural operations may be continued after spells of rain in coastal Karnataka and on a non rainy day in Interior Karnataka.
- Wooly aphid incidence is reported at Mysore, Mandya, Hassan, Bidar & Bagalkote districts. Release predators like *Dipha* sp after spells of rain in coastal Karnataka and on a non rainy day in Interior Karnataka to control the pest.
- Undertake inter-cropping with soyabean and pulses of short duration to reduce wooly aphid incidence.

Andhra Pradesh

Rain occurred at a few places over Coastal Andhra Pradesh on 29th September over Rayalaseema on 2nd October and over Telagana on 1st October. Isolated rain occurred elsewhere over the state during the week except it was mainly dry and dry over Telangana on 4th October and 29th September respectively.

Isolated rain or thundershowers are likely over the State.

Advisories

- There was no significant rainfall in the state except in Srikakulam district in coastal Andhra Pradesh and in Adilabad and Nizamabad districts in Telangana and rain/ thundershowers likely to occur at isolated places over the State. Under the circumstances, apply irrigation to maize, groundnut, cotton, chilly and tur to bring the soil moisture to its field capacity. Apply irrigation depending upon soil profile stored moisture in the above mentioned districts as there was excess rainfall during last week.
- Continue intercultural operations, application of fertilizers and pesticides in the standing crops in the State.
- Attack of sucking pests is noticed in cotton. Monitor the crop continuously and if damage exceeds economic threshold level, spray Acephate @ 1.5 g/litre of water or Monocrotophos @ 1.6 ml/ litre of water to control the pest.
- Attack of blast is reported in rice. Spray Tricyclozole @ 0.6 g/litre of water or Ediphenphos @ 1 ml/litre of water to control the disease.

Eastern Region (Assam, Bihar, Sikkim, West Bengal)

Assam

Light to moderate rain occurred at a few places on $2^{nd} \& 3^{rd}$ October and at isolated places on 4^{th} October with isolated heavy falls on $2^{nd} \& 3^{rd}$ October over the State. Sky was generally Cloudy.

Rain / thundershowers are likely at many places over the State. Decrease in rainfall activity after 2 days.

Warning: Isolated heavy to very heavy falls are likely over the State.

- As rain / thundershowers are likely at many places with isolated heavy to very heavy rainfall over the State for next three days; postpone irrigation to Sugarcane, arhar, black gram, green gram and Sali rice. Arrange drainage facilities in the standing crops.
- Maintain 3 5 cm water level in *Sali* rice field.

- Apply plant protection measures to *sali* rice when one adult of rice hispa per hill or one leaf is found damaged by hispa. Apply Monocrotophos 40 EC @ 1.5 ml per litre of water or Chloropyriphos 20 EC @ 2 ml per litre of water to control the insect. If attack of Stem borer is noticed apply Monocrotophos 40 EC @ 1.5 ml per litre of water. Spraying may be continued after current spells of rain under the prevailing weather conditions.
- Land preparation and sowing of early winter vegetables may be continued after current spells of rain.

West Bengal

The South West Monsoon was active over the districts of Sub Himalayan West Bengal during the period and weak over the districts of Gangetic West Bengal during the period 2nd to 4th October. During the period rain occurred at isolated places on 2nd October, heavy rain at isolated places along with most places on 3rd and 4th October over the districts of SHWB. But during rain occurred at isolated places during the period 2nd to 4th October over the districts of GWB.

Rain / thunder showers will occur at a few places over the State.

Advisories

- As there was no significant rainfall in the State except in Coochbehar, Darjeeling, and Jalpaiguri districts during last week and rain / thundershowers are likely at a few places over the State for the next three days, apply irrigation to bring the soil moisture to its field capacity in sugarcane, green gram and groundnut. Apply irrigation depending on the soil profile stored moisture in the above mentioned districts as excess/normal rainfall is received during last week.
- In *aman* rice apply 2nd top dressing of nitrogenous fertilizer @ 25 kg / ha for high yielding varieties and 20 kg / ha for medium duration varieties at 40 45 days after transplanting and 20 kg / ha for long duration varieties at 60 65 days after transplanting. Water may be drained out before the application of fertilizer and 3 5 cm water may be maintained in the field after 2 3 days. Application of fertilizers may be continued on a non rainy day.
- Continue intercultural operation and application of fertilizer and plant protection measures to the crops on a non rainy day.
- Field preparation and sowing of lentil and gram may be done.

Bihar

Rain occurred at a few places on 30th September. Rest of the days rain occurred at isolated places.

Rain/ thundershowers likely to occur at isolated places over the State.

Advisories

- There was no significant rainfall in the State except Purnea district during last week and rain/thundershowers are likely at isolated places for next three days. Under the circumstances, apply required irrigation depending on the soil profile stored moisture to vegetables, maize, pulses, and oilseed crops.
- Weeding and intercultural operations may done in rice and apply 25-30 kg/ha Nitrogen as top dressing.
- Start field preparation and sowing of *rabi* crops with available residual moisture.

Jharkhand

Rain / thunder showers occurred at a few places.

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

Advisories

• There was no significant rainfall except Girioih district during last week in the State and rain / thundershowers are likely at isolated places for next three days, apply required irrigation depending on soil profile stored moisture to vegetables, maize, and other crops.

- Also, continue intercultural operation, application of fertilizer and plant protection measures.
- Continue weeding and top dressing in rice.
- Maintain 3-5cm of standing water in the rice field.
- Continue field preparation, sowing/transplanting of tomato, cabbage, cauliflower, brinjal, chilli, potato and pea.

Sikkim

Sky remained generally cloudy during the period. Light to moderate rain occurred at many places on 30th September, 1st, 2nd & 4th October. Very light rain occurred at a few places on 3rd over East Sikkim. No rain occurred on 28th & 29th September over East Sikkim. Rainfall was deficient during the period.

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

Advisories

- As there was no significant rainfall in the state during last week and rain / thunder showers are likely to occur at few places over the State for next three days, apply required irrigation to orange, large cardamom and ginger to bring the soil moisture to its field capacity.
- Continue intercultural operations, application of fertilizers and pesticides in orange, vegetables and ginger on a non rainy day.
- If caterpillar infestation is seen in large cardamom, it may be handpicked and destroyed. Rouging of Chirkey and foorkey affected plants may be done at regular intervals and destroyed by burning.
- Maintain water level of 3-4 cm in rice field.
- Monitor orange for trunk borer and plug the holes in case of damage. Also monitor orange for fruit fly. Keep bait made of 20 ml Malathion and 200 g molasses or gur in 2 litres of water on a non rainy day to control fruit fly and prevent fruit drop.

Arunachal Pradesh

Sky remained mainly cloudy over the State during the period. Rain / thundershower occurred at many places on 4th October, at a few places on 3rd October and at one or two places on 2nd October.

Rain / thundershower are likely to occur at many places over the State. Decrease in rainfall activity after 2 days.

Warning: Isolated heavy to very heavy falls are likely over the State.

Advisories

- Rain / thundershowers are likely to occur at many places in the State for the next three days. Under these conditions, postpone irrigation to new crop of ginger. Arrange adequate drainage facilities.
- Drain out the water 15 days before harvesting in wet seeded rice field and start harvesting of matured crop.
- Field preparation and sowing of winter vegetables, potato, wheat and mustard may be continued after current spells of rain.

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

Gujarat

Rainfall occurred at a few places over Gujarat region, Daman, DNH on 2nd October. Rainfall occurred at isolated places over Gujarat region, Daman, DNH on 3rd and 4th October.

Rain / thundershowers are likely at isolated places over south Gujarat region and mainly dry over the rest region.

Advisories

- As there was no significant rain in the State except Kheda and Sabarkantha districts during last week and isolated rain / thundershower over south Gujarat region and mainly dry weather is likely north Gujarat region and Saurashtra & Kutch region for next three days, apply irrigation to sugarcane, *Kharif* groundnut, *Kharif* bajra, *Kharif* maize, pre-monsoon irrigated cotton, *Kharif* cotton and castor to bring the soil moisture to field capacity. Apply irrigation depending on the soil profile stored moisture in the above mentioned districts.
- Maintain 3 5 cm water in rice fields.
- There is possibility of attack of stem borer in *kharif* rice. Monitor the crop for stem borer and if crosses economic threshold level, apply carbofuran 3 % @ 25 kg / ha or cartap hydrochloride 4% @ 20 kg / ha for the control of the insect. To control the sucking pest spray Monocrotophous 12 ml or DDVP 5 ml or trizophous 10 ml in 10 liter of water.
- At tillering stage give supplementary dose of Nitrogen 32 Kg for early varieties, 40 Kg for medium and 48 Kg/ha for late ripening varieties.
- If population of sucking pests like aphid, jassids, thrips & Heliothis of cotton crosses economic threshold level, release chrysoperla eggs or first in star larvae @ 10000 / ha twice at the interval of 15 days.
- For monitoring & management of boll worms & Heliothis of cotton hang 5 pheromance traps in one ha. Change the lures at an interval of 15 days. Destroy trapped moths every day. If boll worm population crosses economic threshold level, release parasite tricogamma @ 1.5 lakhs / ha 5 to 6 times as per requirement depending upon infestation found in field.
- If white fly population crosses economic threshold level in cotton, spray Neem oil @ 4 liter / ha. For control of top shoot borer of cotton spray Endosulphan 35 EC @ 2 liter / ha if population crosses economic threshold level.
- Continue intercultural operation and application of fertilizer and plant protection measures to the crops under prevailing weather condition.

Chhattisgarh

Rain occurred at isolated places on 2^{nd} October in Bastar div., on 3^{rd} October in Bilaspur, Raipur div. and on 4^{th} October in Bilaspur and Bastar division. Weather was mainly dry from 2^{nd} to 4^{th} October in remaining divisions.

Mainly dry weather is likely over the State.

- As there was no significant rainfall in the State except Bastar, Dhamtari, and Kanker districts during last week and mainly dry weather is likely over the State for next three days, apply irrigation to bring the soil to field capacity to Sugarcane, green gram, black gram, red gram, soybean, groundnut and vegetables. Apply irrigation depending on soil profile stored moisture in the above mentioned districts.
- Drain out water from the rice field and apply second split dose of N @ 25 30 kg / ha at 45 50 days after transplanting as top dressing. Maintain 3 5 cm water in the field after 2 3 days of fertilizer application.
- Continue preparation of nursery for vegetables like tomato, chilly, brinjal etc. on the bed of 6-8 inch height.
- Continue sowing of Niger seed and *Kulthi* in Bastar division. For *Kulthi* prefer variety like A.K. 21, Marukulthi, B.K. 1 and for Niger seed I.G.P. 76, G.A.10, J.N.C. 6, B.N. 1.
- Monitor the crop for the attack of stem borer and gall midge in rice. Monitor the crops and if crosses economic threshold level, thimet 10 G @ 10 kg / ha or carbofuran 3 G @ 25 kg / ha may be applied.
- Monitor the crop for the attack of leaf eating or leaf curl insects in pulses. Monitor the crops and if

crosses economic threshold level, Endosulphon 35 EC @ 1000 ml or Quinalphos or Methyl demeton 25 EC @ 800 ml / ha may be applied.

Maharashtra

Monsoon was vigorous in Konkan on 2nd October. Rainfall occurred at most places in Konkan & North Madhya Maharashtra, at a few places in South Madhya Maharashtra, Marathwada and at isolated places in Vidarbha.

Rain / thundershowers are likely at many places over Konkan & Goa; at a few places over south Madhya Maharashtra and isolated over north Madhya Maharashtra, Marathawada and mainly dry weather is likely over Vidarbha.

Warning: Isolated heavy rainfall likely over South Konkan & Goa.

- As rain/thundershowers are likely at many places over Konkan & Goa, postpone irrigation to Sugarcane, Jowar, *kharif* groundnut, bajra, soybean, sunflower, *kharif* cotton, tur, moong and cotton (irrigated) crops. Arrange drainage facilities in south Konkan & Goa.
- There was no significant rainfall in Ahmednagar, Nasik, Pune, Sangli, Satara, Sholapur, Beed, Nanded, Usmanabad, Parbhani, Chandrapur, Gondia, Nagpur, and Washim districts during last week and rain / thundershowers are likely at a few places over south Madhya Maharashtra and isolated over north Madhya Maharashtra, Marathawada and mainly dry weather is likely over Vidarbha. Under these conditions, apply irrigation to bring the soil moisture to its field capacity to sugarcane, jowar, *kharif* groundnut, bajra, soybean, sunflower, *kharif* cotton, tur, moong and cotton (irrigated) crops in the above mentioned districts. Apply irrigation depending on the soil profile stored moisture in the remaining districts as excess/normal rainfall is received during last week.
- Mild incidence of White Woolly Aphids in Aurangabad, Latur, Kohlapur and Pune and Pyrilla, White fly and Mealy bug in Nashik in sugarcane, Stem borer in Raigad, Army worm, Leaf roller, Blue beetle and Hispa in Konkan and Goa, Raigad and Sindhudurga and Aphids and Army worm in Sangli district & Blight and blast in Nagpur division in *Kharif* rice, Stem borer, aphids and jassids in Satara and Sangli dist. & shoot fly in Amraoti div. in jowar, Leaf eating cater pillar, Rust, Leaf roller in Kolhapur in Groundnut, Leaf eating cater pillar in Kolhapur, Latur and Amraoti div. and Wardha dist and White fly, Jassids & Thrips in Nashik division in soybean, Leaf cater pillar and sap sucking isects in Latur division in sunflower, Aphids & Jassids in Aurangabad & Chandrapur and Vidarbha div. and Root rot in Nashik in irrigated cotton and Aphids and Jassids in Aurangabad and Vidarbha division in *kharif* cotton, leaf roller in Amravati division in tur and White fly, Jassids & Thrips in Nashik & Sap sucking insects, Leaf cater pillar in Latur division in tur and White fly.
- For the control of White Woolly Aphids in sugarcane, release 2500 eggs or larvae of *Krisoperla Karnea* or *Konobatra Aphidivora* parasite on the leaves or spray Endosulphan 1 ml plus Metasistox 1 ml mixed in 1 liter water.
- Monitor the stem borer population in rice and if crosses economic threshold level, use phorate 10G @ 10 kg or Quinalphos 5G @ 15 kg / ha.
- Monitor the army worm population in rice and if crosses economic threshold level, spray 25 % Cypermethrin @ 120 ml or 36 % Monocrotophos @ 700 ml / ha in 500 liter water.
- Monitor the blast disease in rice and if crosses economic threshold level, Blitox 50 (Copper oxychloride)
 @ 2.25 kg or Bavistin 50 WP @ 750 g or Hinosan @ 750 ml in 750 litre water / ha may be applied.
- Monitor the stem borer, aphids and jassids population in jowar and if crosses economic threshold level, spray 5 % Neem seed extract or 35 % Endosulphon @ 14 ml or 30 % Dimethoate @ 10 ml plus 10 ml sticker in 10 liter water. Monitor the leaf roller population in groundnut and if crosses economic threshold level, spray 36% WSC Monocrotophos @ 700 ml or 25% WSC Quinolphos @ 1000 ml / ha in 500 liter water.
- Spraying may be continued in north Madhya Maharashtra, Marathawada and Vidarbha and on a nonrainy day in south Madhya Maharashtra and after current spells of rain in Konkan & Goa.

• Field preparation and sowing of rabi maize, sunflower, safflower, wheat, gram and jowar may be started in Madhya Maharashtra, Marathwada and Vidarbha.

Madhya Pradesh

South West Monsoon has withdrawn from NorthWest M.P. and parts of South West and North East M.P. on 4th. Rainfall occurred at isolated places in West M.P. on 2nd October, NorthWest M.P. on 3rd October and North M.P. on 4th October. Dry weather prevailed over the state for remaining period.

Mainly dry weather is likely over the State.

Advisories

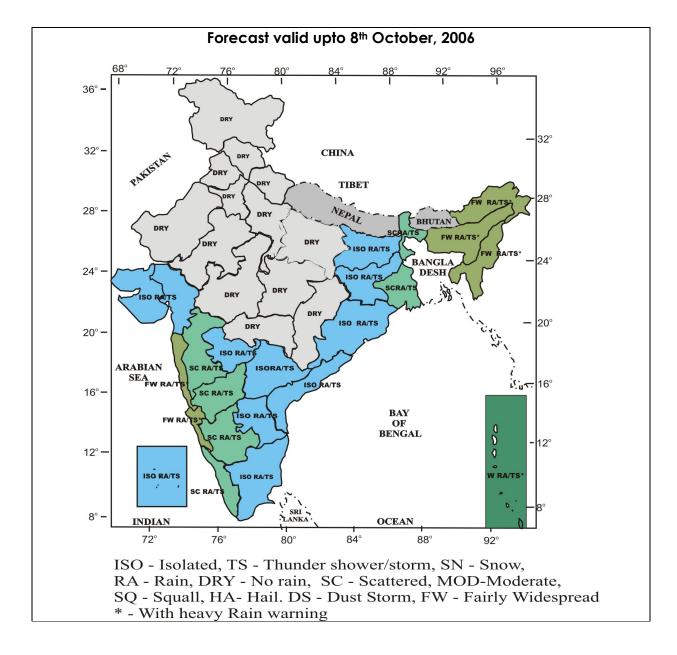
- There was no significant rainfall except Khargone and Jhabua districts and mainly dry weather is likely over the State for the next three days. Under the circumstance, apply irrigation to sugarcane, moong, *kharif* soybean, jowar, urad, tur, cotton and maize crops to bring the soil moisture to field capacity. Apply irrigation depending on the soil profile stored moisture in the above mentioned districts. Conserve moisture wherever the crops are at maturity stage.
- Maintain 3-5 cm water level in *kharif* rice field.
- To protect rice crop from Blast disease spray Mancozeb 1kg per hactare.
- Conserve moisture wherever the *kharif* crops are at maturity stage.

Orissa

Rain fall occurred at isolated places over the State during the period.

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

- There was excess/normal rain during last week except in Angul, Balasore, Bargarh, Deogarh, Jharsuguda, Kendrapara, Malkangiri, Nawapara, Sambalpur, Sonepur and Sundargarh districts and rain or thundershowers are likely to occur at isolated places over the State for next 3 days. Under the circumstances, apply irrigation depending on soil profile stored moisture in vegetables, sugarcane, ground nut, pulses and jute crops. Apply irrigation to bring the soil moisture to field capacity in the above mentioned districts.
- Maintain 3-5 cm water in the rice field wherever crops are at tillering stage.
- At five months stage of sugarcane crop perform propping by combining plants of two rows so that the crops do not lodge by wind.
- Field preparation and sowing of *rabi* groundnut may be done.



Salient weather features for the week ending 04/10/06

WITHDRAWAL OF SOUTHWEST MONSOON

The southwest monsoon further withdrew on 3rd October from remaining parts of West Uttar Pradesh & Rajasthan, many parts of East Uttar Pradesh, West Madhya Pradesh & north Gujarat and some parts of Bihar & East Madhya Pradesh. The withdrawal line passed through Raxaul, Allahabad, Bhopal, Vallabha Vidyanagar and Porbandar.

METEOROLOGICAL ANALYSIS

• Last week's low pressure area over east central and adjoining northeast Bay of Bengal persisted and became well marked on 28th September morning. It concentrated into a depression in the same evening. Moving west-northwestwards, it lay centred at 0830 hours IST of 29th over northwest Bay of Bengal, about 125 Km east-southeast of Gopalpur. Moving further westwards, it crossed Orissa coast near Gopalpur around 1730 hours IST of 29th. It weakened into a well marked low pressure area and lay over south Chhattisgarh and neighbourhood on 30th morning. It lay as a low pressure area over Vidarbha and neighbourhood on 1st October morning and became less marked on 2nd. However the associated cyclonic circulation extending upto mid-tropospheric level persisted over same area on 2nd; over Madhya Maharashtra and neighbourhood on 3rd and over south Konkan & Goa and neighbourhood on 4th.

- Last week's low pressure area over northeast & adjoining east-central Arabian Sea moved westwards and became less marked on 28th.
- An off shore trough on sea level ran from Konkan coast to Kerala coast during last two days of the week.
- A north-south trough extending upto lower tropospheric level ran from Bihar to northwest Bay of Bengal across Jharkhand and north Orissa on last day of the week.

RAINFALL

Under the influence of the above systems:

- The monsoon was active with isolated heavy to very heavy falls over Orissa during 29-30th. Fairly widespread rainfall with isolated heavy falls also occurred over Orissa on 1st & 4th Oct and over Gangetic West Bengal and Jharkhand during 30th Sep to 1st Oct and on 4th Oct.
- The monsoon was active with isolated heavy to very heavy falls over Chhattisgarh on 30th Sep. Fairly widespread rainfall with isolated heavy falls also occurred over Vidarbha on 1st Oct.
- The monsoon was active with isolated heavy to very heavy falls over Konkan & Goa on 2nd Oct. Fairly widespread rainfall with isolated heavy falls occurred over Konkan & Goa on 1st, 3rd & 4th, over Marathwada on 1st and over Madhya Maharashtra on 2nd.
- The monsoon was active with isolated heavy to very heavy falls over Coastal Karnataka on 30th. Fairly widespread rainfall with isolated heavy falls occurred over Coastal Karnataka and Andaman & Nicobar Islands during many days of the week and over North Interior Karnataka during 1-2 Oct.
- Scattered to fairly widespread rainfall with isolated heavy falls occurred over northeastern states during the week.
- Rainfall was isolated or mainly dry weather prevailed over northwest India while scattered/isolated rainfall activity occurred over remaining parts of west, central & peninsular India during the week.

RAINFALL DURING THE WEEK ENDING ON 4[™] OCTOBER, 2006

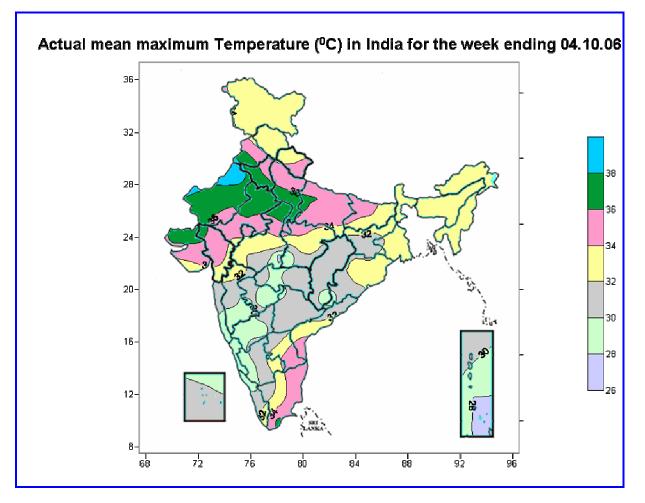
Rainfall was excess/normal in 9, deficient/scanty in 22 and there was no rain in 5 out of 36 meteorological sub-divisions (Actual: 18.3 mm, Normal: 28.9 mm and Departure: -37%).

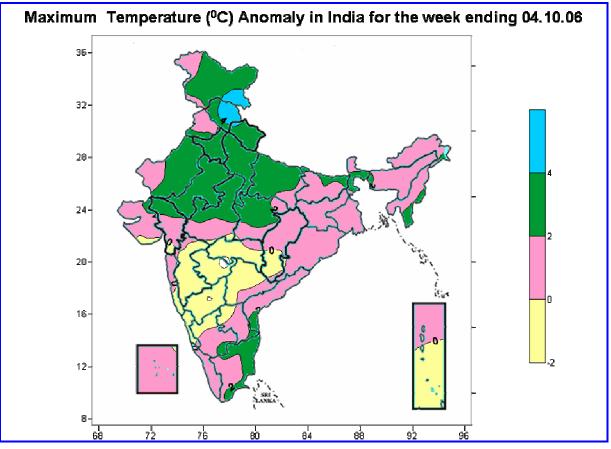
CUMULATIVE SEASONAL RAINFALL (1st JUNE TO 30th SEPTEMBER, 2006)

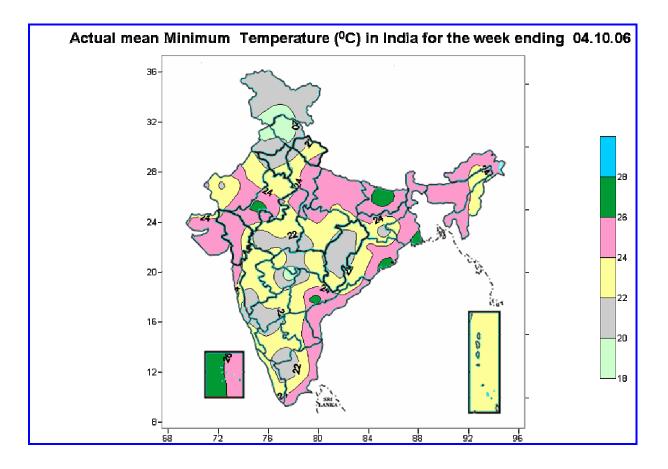
Rainfall was excess/normal in 26 and deficient in 10 out of 36 meteorological sub-divisions. (Actual: 886.6 mm, Normal: 892.2 mm and Departure: -1%).

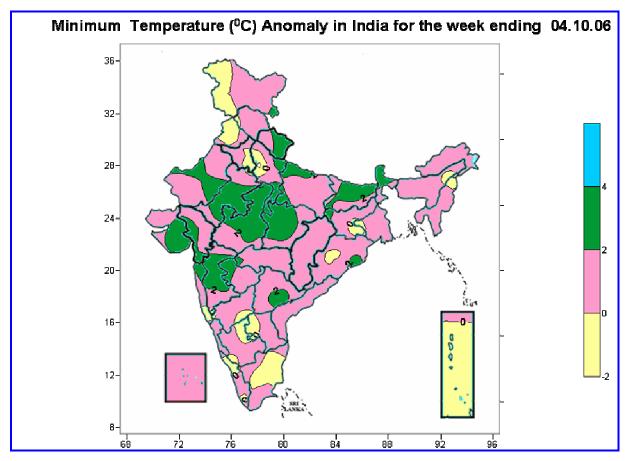
OUTLOOK FOR THE WEEK ENDING ON 11[™] OCTOBER, 2006.

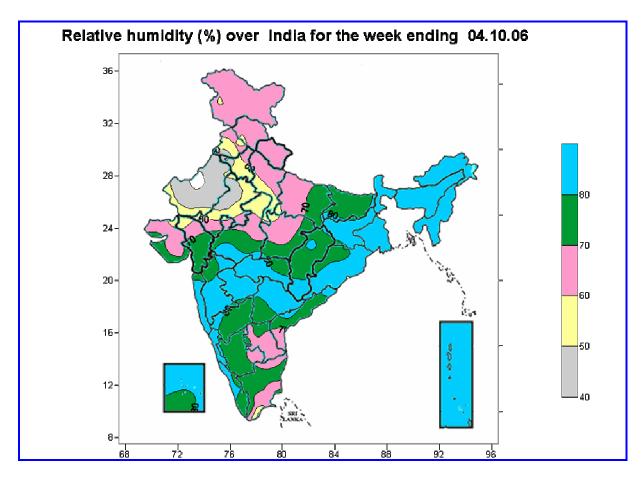
- Conditions are favourable for further withdrawal of monsoon from some more parts of central, east and west India.
- Increase in rainfall activity over southeast peninsula.
- Scattered to fairly widespread rainfall activity is likely to continue over northeastern states.

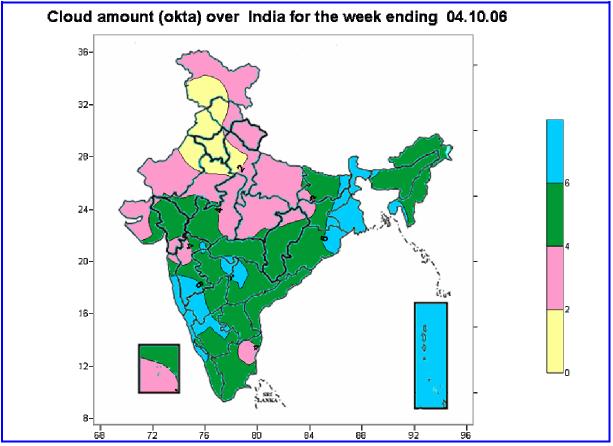


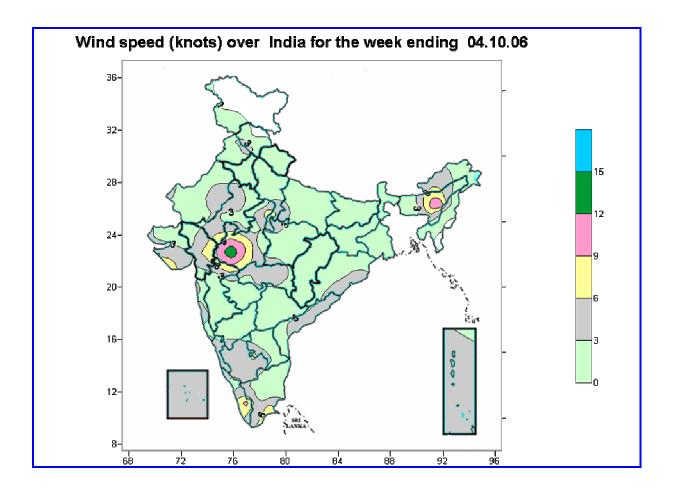












Desert Locust Forecasting



Although the monsoon rains have finished along the **Indo-Pakistan** border and only scattered adults are present, limited breeding could still occur in Rajasthan and the adjoining areas as heavy rains and flooding occurred last month along the **Indo-Pakistan** border (Rajasthan, **India** and Tharparkar, **Pakistan**).

Farmers are advised to monitor locust population and carry out anti locust operations, if the population of the pest crosses Economic Threshold Level (ETL).

CROP – STATE – STAGE

		Delhi		
Toria	Vegetables (Brinjal, Chilly, Cauliflower and cabbage, raddish, carrot,and turnip	Arhar	Rice	Green gram, black gram
Sowing	Nursery sowing/ Transplanting	Maturity / harvesting	Grain formation / maturity	Maturity/harvesting
Bajra	Fodder (Mixed maize , Lobia)	Maize	Early sown vegetable crops	Mustard
Grain formation / maturity	Vegetative	Maturity	Vegetative/ flowering/ fruiting/ harvesting	Sowing
Berseem				
Sowing				
		Haryana		

		11ul yullu		
Horticultural crop	New Horticultural crop	Paddy	Maize	Cotton
Fruiting	Planting	Grain development / early maturity	Cob development / early maturity	Boll development
Bajra	Groundnut	Kharif pulses	Sugarcane	
Ear head maturity / harvesting	Pod development / early maturity	Pod maturity / early harvesting	Vegetative	
		Himachal Pradesh		

	Himachal Pradesh			
Maize	Maize Apple		Fodder crops	
cob maturity/harvesting	Harvesting	Vegetative/flowering / fruiting / harvesting	Vegetative	
Fruit plants	olants Potato Summer vegetables Radish, Turnip, Carrot		Summer vegetables (Cauliflower, Cabbage)/Arcle peas	
New growth	Tuber maturity	Sowing	Preparation of nursery in low hills & Transplanting in high hills / Sowing	
	Jammu & Kashmir			
Rice	Maize	Kharif crops	Horticultural crops	
Grain formation / development	Grain maturity / early harvesting	Grain development	Vegetative	
Flower crops	Toria	Brown Sarson	Lentil	
Seed bed preparation for sowing	Sowing	Sowing	Sowing	
	cob maturity/harvesting Fruit plants New growth Rice Grain formation / development Flower crops Seed bed preparation for	cob maturity/harvestingHarvestingFruit plantsPotatoFruit plantsPotatoNew growthTuber maturityImage: Seed bed preparation forGrain maturity / early harvestingFlower cropsToria	Cob maturity/harvestingHarvestingVegetative/flowering /fruiting / harvestingCob maturity/harvestingHarvestingVegetative/flowering /fruiting / harvestingFruit plantsPotatoSummer vegetables Radish, Turnip, CarrotNew growthTuber maturitySowingVegetative/flowering /fruiting / harvestingSowingNew growthTuber maturitySowingGrain formation / developmentGrain maturity / early harvestingGrain developmentFlower cropsToriaBrown SarsonSeed bed preparation forSowingSowing	

Punjab							
Sugarcane	Paddy	Maize	Cotton	Kharif pulses			
Vegetative	Grain development / early maturity	Cob development / early maturity	Boll development	Pod maturity / early harvesting			
Groundnut							
Pod							
development /							
early maturity							
	Rajasthan						
Cotton	Groundnut	Bajra	Pulses	Soyabean			

Wheat Sowing

Cotton	Groundnut	Bajra	Pulses	Soyabean
Boll maturity	Pod maturity	Ear head maturity / harvesting	Pod maturity / harvesting	Pod maturity

Maize Cob maturity / harvesting								
narvesting			Uttar F	Pradesh				
	Kharif	f Pulses				-		
		k Moong)	Sugarcane		Kharif Vegetal	oles		
	Grain fo	rmation /	Vegetati	ve	Fruiting/harves	ting		
Mango	Kharif	'Maize, , Bajra	<i>Kharif</i> ri	ice	Toria		Kharif Oilseeds	
Harvesting	Grain dev	velopment turity	Panicle initiation	/flowering	Sowing		Flowering / seed formation	
New Mango		oria					101111111	
Active growth		ving						
			Uttara	anchal				
Rice	Mango)/Litchi	Apple		Sugarcane		Toria	
Milking / dough / maturity	See	dling	Maturit	у	Grand growt	h	Sowing	
2	Millets	s (Ragi)	Pea & Po	tato				
	Grain fo	rmation /	Souring					
	mat	urity	Sowing	5				
			Ass	sam				
Maize		rcane	Early winter v	egetables	Vegetables		Balck gram and Green gram	
Harvesting		aturity / esting	sowing	5	Land preparati	on	Vegetative	
Sali rice		har						
Vegetative /	Vaga	tativa						
tillering	vege	etative						
			Arunacha	ıl Pradesh				
Wet seeded rice	Gir	nger	Potato		Wheat and		Winter vegetables	
	Ulliger		i otuto		Mustard			
Maturity /	Vege	etative	Land preparation		Land preparation /		Nursery sowing /	
harvesting	U				sowing		transplanting	
Fruits and			Bil	nar				
Vegetables	Winter w	egetables	Rice		Maize		Pulses and Oil seeds	
_	Sow	ving /	Panicle initiation / flowering				Seed formation /	
Vegetative		lanting			Cob formation		Maturity	
				khand			2	
D'		Up	and crops	Γ.	•11 /			
Rice			ndnut, urad)	Fin	ger millet		Maize	
Panicle initiation flowering / gra			ive / flowering	Vegetat	ive/flowering		Cob formation	
formation Kharif vegetal	oles							
(Tomato, Cabb		Early 1	planted <i>kharif</i>					
Cauliflower, Br			egetables	Imely	sown Arhar		Pea & Tomato	
Chilli)								
Transplantin	g		y vegetative / Maturity / harvesting			Sowing		
P	0	V	egetative		,			
0		•		kim	D 11	<u> </u>	<i>C</i> !	
Orange	R	ice	Large Card	amom	Rabi vegetab	les	Ginger	
Fruit maturity / harvesting	Grain fo	ormation	Harvesti	ng	Transplanting	g	Maturity / early harvesting	
nai vestillg			Wost 1	Bengal			nai vesulig	
Aus rice	Suga	rcane	Jute	bengai	Gram		Aman rice	
					Field preparation	on /	Panicle initiation /	
Grain maturity	Vegetative		Harvesti	ng	sowing	/	flowering	
Groundnut	Le	ntil						
		paration /						
Pod formation		ving	~					
			Chatt	isgarh	-			
Chilly, Brinjal, Ladies finger, Beans, Bottle	Niger, Kulthi		Sugarca	ne	<i>Kharif</i> rice		Soybean	

sowing	Vegetative	panicle initiation / flowering	Flowering	
Groundnut	Red Gram Tomato, chilli, brinjal			
Flowering/ pegging	Pod formation	Nursery preparation /		
	Guiarat	uansplanting		
Pre-monsoon	_		~	
irrigated Cotton	Kharif groundnut		Sugarcane	
maturity	Pod maturity / harvesting	tillering/tillering	Cane development	
Castor	Kharif bajra	Kharif Rice		
Vegetative	Grin maturity / harvesting	Active tillering / panicle initiation		
	Maharashtra			
Tur (Madhya Maharashtra, Marathwada & Vidarbha)	Irrigated Cotton	Sugarcane (Seasonal)	Bajra (Madhya Mahrashtra, Marthwada and Vidarbha)	
Branching / flower bud formation	Active vegetative/ flowering/ boll formation	Active vegetative / elongation	grain maturity/ harvesting	
Kharif sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	Soyabean (Madhya Maharashtra, Marathwada & Vidarbha)	Kharif rice (Konkan)	Kharif rice (Madhya Maharashtra, Marathwada & Vidarbha)	
Head formation / maturity / harvesting	pod maturity / harvesting	initiation / flowering (late varieties) Flowering / grain formation (medium varieties) Grain formation / grain maturity	Active tillering / flag leaf initiation (in Vidarbha) Panicle initiation / flowering / grain formation (in Madhya Maharashtra, Marathwada)	
Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)	<i>Rabi</i> Jowar (Madhya Maharashtra, Marathwada & Vidarbha)	<i>Rabi</i> Sunflower (Madhya Maharashtra, Marathwada & Vidarbha)	<i>Rabi</i> Wheat (Madhya Maharashtra, Marathwada & Vidarbha)	
Active vegetative	Field preparation / sowing	Field preparation / sowing	Field preparation / sowing	
<i>Rabi</i> maize (Madhya Maharashtra, Marathwada & Vidarbha)	<i>Rabi</i> Safflower (Madhya Maharashtra, Marathwada & Vidarbha)			
Field preparation / sowing	Field preparation / sowing			
	Madhya Pradesh			
Moong	Kharif crops (Jowar, urad, tur)	Kharif Soyabean	Kharif rice	
Pod maturity / harvesting	pod formation/ grain formation /maturity	pod maturity	Flowring / grain formation	
Cotton				
		1	1	
Boll formation				
	Orissa			
Boll formation Earlier sown vegetables	Orissa Early sown Groundnut	Rabi Groundnut	Sugarcane	
	Groundnut Flowering/ pegging Pre-monsoon irrigated Cotton Boll formation / maturity Castor Vegetative Vegetative Uegetative Kharif sunflower (Madhya Maharashtra, Marathwada & Vidarbha) Branching / flower bud formation Kharif sunflower (Madhya Maharashtra, Marathwada & Vidarbha) Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha) Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha) Fleid preparation / sowing Mooong Pod maturity / harvesting	GroundnutRed GramFlowering/ peggingPod formationFlowering/ peggingPod formationBoll formation / maturityPod maturity / harvestingBoll formation / maturityPod maturity / harvestingCastorKharif bajraVegetativeGrin maturity / harvestingTur (Madhya Maharashtra, Marathwada & Vidarbha)Irrigated CottonBranching / flower (Madhya Maharashtra, Marathwada & Vidarbha)Active vegetative/ flowering/ boll formationKharif sunflower (Madhya Maharashtra, Marathwada & Vidarbha)Soyabean (Madhya Maharashtra, Marathwada & Vidarbha)Head formation / maturity / harvestingRabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)Field preparation / sowingRabi maize (Madhya Maharashtra, Marathwada & Vidarbha)Field preparation / sowingRabi maize (Madhya Maharashtra, Marathwada & Vidarbha)Field preparation / sowingField preparation / sowingField preparation / sowingField preparation / sowingField preparation / sowingPod maturity / harvestingField preparation / sowing	sowingVegetativeInstructGroundnutRed GramTomato, chilli, brinjalFlowering/ peggingPod formationNursery preparation / transplantingPre-monsoonKharif groundnutEarly Sown RiceBoll formation / maturityPod maturity / harvestingEarly tillering/tilleringCastorKharif bajraKharif RiceVegetativeGrin maturity / harvestingActive tillering / panicle initiationTur (Madhya Maharashtra, Maharashtra, Maharashtra, Maharashtra, Maharashtra, Maharashtra, Maharashtra, Marathwada & Vidarbha)Active vegetative/ flowering/boll formationKharif sunflower (Madhya Maharashtra, Marathwada & Vidarbha)Soyabean (Madhya Maharashtra, Marathwada & Vidarbha)Head formation / maturity / harvestingpod maturity / harvesting pod maturity / harvestingFlag leaf / panicle initiation / flowering (late varieties) Flowering / grain formation / maturity / maturity / harvestingRabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)Rabi Jowar (Madhya Maharashtra, Marathwada & Vidarbha)Kharif cotton (Madhya Maharashtra, Marathwada & Vidarbha)Rabi Saflower (Madhya Maharashtra, Marathwada & Vidarbha)Field preparation / sowingField preparation / sowingField preparation / sowingField preparation / sowingField preparation / sowingField preparation / sowingField preparation / sowingField preparat	

			development		
Kharif rice	Early transplanted rice		Pulses	Early sown Pulses	jute
Tillering / panicle initiation	Early tillering / tillering / panicle initiation		Sowing (Biri / Mung / Kulthi)	Vegetative / flowering / pod maturity	harvesting
			Andhra Pradesh		
Kharif rice	Kharif crops(Chillies/ Chillies/ Tur)		Maize	Groundnut	Cotton
Tillering	Flowering		Cob formation	Flowering	Ball Formation
			Karnataka		
Groundnut	Sugarcane (Ratoon crop & new crop)		Kharif crops (jowar, maize)	Kharif rice	Kharif cotton
Pod formation	Grand growth		Maturity	Tillering	Boll formation
			Kerala	-	
Rubber	Virippu Rice		Pepper		
Tapping	Harvesting		Berry development /maturity		
	·		Tamil Nadu		
Pulses	Millets		Summer irrigated cotton	Early & mid sugarcane	Groundnut
Pod formation/Maturit	Pod Grain formation / formation/Maturity Maturity		Maturity / Harvesting	Grand growth	Pod formation/Maturity
Rice (Kuruvai) Tillering					