

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

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The extended version of the bulletin is also available at http://imdagrimet.org
Agromet Advisory

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

Punjab

• Rain / thundershowers are likely at isolated places over the State during next 24 hours and increase thereafter.

Advisories

- As there was no significant rain in most of the districts and rain / thundershowers are likely at isolated places over the State during next 24 hours, apply irrigation to the standing crops. Postpone irrigation in Gurdaspur, Patiala and Sangrur districts as there was sufficient rainfall during last week.
- Continue transplanting of rice by utilising the realized rainfall. Iron deficiency (interveinal chlorosis in young leaves) has been noticed in rice nursery in Ludhiana district. Farmers are advised to spray the crop with 0.5-1.0 % Ferrous sulphate solution.
- Monitor the attack of thrips and *pyrilla* in sugarcane in central and western plain zone and if required spray 350 ml Endosulfan 50 EC in 600 liter of water / acre to control the pest. In Jallandhar district, to control iron deficiency in sugarcane, spray the crop with 1% Ferrous sulphate solution and to control black bug, apply chloropyriphos 20 EC @ 350 ml / acre by dissolving in 400 litres of water with manually operated sprayer.
- Continue sowing of radish. Select varieties like Pusa chetki and Punjab Ageti.
- Continue land preparation and sowing of cotton. If cotton crop is attacked by mealy bug and tobacco caterpillar, spray the crop with 1 litre endosulphan or 800 ml quinalphos or 2 litre chloropyriphos or 800 g acephate or 250 g thiodicarb per acre. Rogue out and destroy the leaf curl infected plants.

Haryana

• Isolated rain/thundershowers are likely at places over the State during next 24 hours and increase thereafter.

- As there was no significant rain in most of the districts and rain/thundershowers are likely at isolated places over the State during next 24 hours, apply irrigation to sugarcane, oilseeds, pulses and horticultural crops. Postpone irrigation in Fatehabad district as there was sufficient rainfall during last week.
- Monitor the sugarcane crop for thrips and pyrilla in Eastern zone & if exceeds economic threshold level, spray 350 ml Endosulfan 50 EC in 600 liter of water / acre.
- Undertake direct sowing of radish varieties i.e. Pusa Chetki and Punjab Ageti.
- Farmers are advised to prepare the fields for cotton sowing and to start the sowing of desi cotton with varieties HD-107, HD-123, HD-324 and AAH-1 and American cotton with varieties HS- 6 and H-117 with certified seeds. Treat the seeds before sowing.
- Apply second dose of nitrogen to the rice nursery sown during the middle of May to get seedling ready for transplanting.

• Farmers in western zone are advised to sow the bajra, guar and pulses crop in rainfed areas with certified seed for bajra (HHB 60, HHB 67, HHB 67 improved, HHB 117, HHB 146, HC 10 & HC 20); guar (HG 75, HG 365 & HG 563); groundnut (MH 2, MH 4, M 45, M13), maize (HM1, HM2, HM4, HM5 & QPM1) and moong (Asha & Muskan).

Rajasthan

• Rain/thundershowers are likely at isolated over the state.

Advisories

- As there was no significant rainfall during last week and rain/thundershowers are likely at isolated places over Rajasthan during next three days, apply irrigation to vegetable crops.
- Continue land preparation and sowing of groundnut in and around Jaipur, Ajmer, Dausa and Tonk Apply 250 kg per hectare gypsum at the time of last ploughing and 15 kg nitrogen and 60 kg phosphate at the time of last sowing. Apply 30 kg potash per hectare in potash deficient areas.
- Continue land preparation and planting nursery of *kharif* onion in and around Jaipur, Ajmer, Dausa and Tonk. N-53 and Agrifound dark red are the improved varieties of *kharif* onion.
- Bark eating caterpillar may attack Mango, Ber and Aonla. This insect eats bark of these trees & makes tunnels in them. To control the insect spray Endosulfan @ 1.5 ml per litre of water.
- Complete land preparation and sowing of cotton in and around Jaipur, Ajmer, Dausa and Tonk. Select among RG-8 (170-180 days, Desi), Bikaneri Nerma (190-200 days, American) and RST-9 (190-200 days, American).
- Monitor bhindi for mosaic. To prevent further spread, spray Malathion @ 1 ml per litre water to control the vector (white fly).
- Undertake ploughing and arrange for inputs for taking up sowing of *kharif* pearl millet, sorghum, maize and cluster beans in Jaipur, Ajmer, Dausa and Tonk and sowing of til, moong bean, moth bean and cowpea in Barmer, Churu, Jalore, Jodhpur and Pali districts as the monsoon is approaching over the state.

Uttar Pradesh

• Rain/thundershowers are likely at a few places over U.P. during next 24 hours and increase thereafter.

Advisories

- As rain/thundershowers are likely at a few places over the State during next 24 hours and increase thereafter, postpone irrigation to vegetables, sugarcane, summer pulses and sunflower crops.
- Prepare field and undertake nursery sowing / transplanting of *Kharif* rice utilizing the recent monsoon rain.
- Harvest the matured vegetables. To control wet rotten disease in onion spray the solution of Carbendazim 0.1% on a non-rainy day.
- To control internal rotten disease in mango, spray the solution of 5-6 g Borax / litre of water. Cut the mango hopper affected branch 30-45 cm in length. To prevent mango fruits from falling, spray the solution of Napthalene Acetic Acid @ 15 ppm or 4 ml planofix / 9 litre of water.
- Weeding, hoeing, intercultural operations and application of fertilizers may be done after current spells of rain in summer pulse, sugarcane and sunflower crops.

Himachal Pradesh

• Rain/thunder showers are likely at isolated places over the State.

Advisories

 As there was excess rainfall in Hamirpur, Kangra, Kullu and Una districts of the State during last week, postpone irrigation to the crops in these districts. As the remaining

- districts of the State received no significant rain and rain is likely to occur at isolated places over the State for next three days, apply irrigation to vegetables and potato.
- Undertake sowing of bhindi at a distance of 60x20 cm. Select varieties from Harbhajan, Pusa savani and P-8. Transplant the cabbage and cauliflower in High Hills Temperate Dry zone.
- Complete the nursery sowing of rice if not done till date. Sow 400 g good quality treated seeds in each bed, in rows, 10 cm apart. Four such beds are sufficient for one Bigha.
- Continue preparation of land for sowing of maize by ploughing and mixing biological manures properly. Undertake sowing with the help of recent rain. The crops should be sown between 15th to 30th June in low hills.
- Plucking of tea leaves can be continued at 8-10 days interval.
- Milibug is appearing in the tea plantation. For control spray Deltamethrin (Decis 2.8 EC) @ 1340 ml in 750 litres of water for one hectare. Spray immediately after plucking.
- It is optimum time for transplanting of summer annuals *viz*. Gladiolus, glardia, gomphrina, rudevekia, celosia, balsam cleome, kochia and zenia. Transplanting may be done in the evening.
- Weather is conducive for appearance of aphids in rose in Mild Hills Sub Humid Zone. For control, spray rogor @ 1 ml per litre of water. For the control of green beetle in roses, spray metasystox @ 1 ml per litre of water.
- Aphids are also appearing in gladiolus in High Hills Temperate wet zone. For control, spray metasystox @ 0.05%. For control of blue beetle in godetia spray metacid @0.1%

Uttarakhand

• Rain/thundershowers are likely at isolated places over the state during next 24 hours and increase thereafter.

Advisories

- As there was sufficient rainfall in Champawat, Dehradun, Garwal Tehri, Hardwar and Uttarakasi districts, postpone irrigation to sugarcane, vegetable crops and orchard trees. Apply irrigation in the remaining districts as there was no sufficient rainfall in the remaining districts during last week.
- Undertake intercultural operations in orchards and sugarcane to keep the field weed free.
- Continue picking mango and litchi depending upon market demand.
- Monitor mango trees for powdery mildew and litchi for mite incidences. Undertake need based plant protection measures.
- Continue land preparation and sowing of *kharif* rice, groundnut, maize, amaranthus and vegetables.

Jammu & Kashmir

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

- As rain/thundershower is likely only at isolated places over Jammu & Kashmir during next three days, apply irrigation to the standing crops.
- Undertake intercultural operations, application of fertilizers and pesticides to the standing crops.
- Preparation of seed beds for early raising of vegetable seedlings such as capsicum, chilies, brinjal, paprika etc. and filling of poly bags for sowing of cucurbits under poly house conditions may be continued in Kashmir division. Also undertake sowing of spinach, methi and coriander and planting of garlic in Kashmir division.

- Continue planting of fodder maize in Kashmir division.
- Rouge out virus affected plants from brinjal, tomato, chili, cauliflower and cabbage fields in Jammu division.
- Due to the presence of sufficient moisture in the soil and further chances of rainfall occurrence, undertake direct sowing of rice (var. Jaya, RR-8585, PC-19, IET-1410 and Ratna) in Jammu division with seed rate 75 kg / ha in those areas where there is no nursery planted. Before sowing treat the seeds with Thiram @ 0.3% + Streptocycline @ 100 ppm (1g/10 litre of water) or Carbedazim @ 0.2%. Apply full dose of P, K and 1/3rd dose of N as basal.
- Due the presence of sufficient moisture in the soil, top dressing of nitrogenous fertilizers may be undertaken in the vegetable crops like knol khol, bhindi, pumpkin, bitter gourd, bottle gourd and sponge gourd @ 50, 30, 30, 50, 50 and 20kg/ha, respectively in Jammu division.

Delhi

• Rain/thundershowers are likely at isolated places over the state.

Advisories

- As there was excess rain during last few weeks over the State for next 3 days, postpone irrigation to the crops.
- The farmers who could not transplant early cauliflower seedlings till date, carry out transplanting as early as possible.
- There is chance of attack of fruit fly in vegetables due to favourable weather condition. Farmers are advised to collect the infested fruits and destroy them. Apply malathion @ 500 ml / ha mixed in 1000 litre of water to control fruit fly.
- Weather condition is favourable for the attack of powdery mildew in vegetables. Apply mancozeb @ 2 g / litre of water to control the disease.
- Continue land preparation and undertake transplanting of rice. Prepare the main field by puddling and transplant 25 30 days old rice seedlings in the field. Transplant 2 3 seedlings / hill at a spacing of 20 cm x 20 cm.
- Undertake nursery sowing of tomato and brinjal on raised bed to avoid water stagnation.
- Prepare land and sow maize and arhar utilizing monsoon rain. Sow seeds if sufficient moisture
 is available in soil for germination. Select varieties from Ganga-5, Ganga White, Vikram
 and Kissan for maize and Upas 120 and Manak for arhar for sowing.

Southern Region (AP, Tamilnadu, Karnataka and Kerala)

Kerala

• Rain/thundershowers are likely at many places the state.

- Postpone irrigation, application of fertilizers and pesticides and intercultural operations to plantation crops viz., coconut, areca nut, rubber and banana in the state as rain/thundershowers are likely at many places for the next three days.
- Weather conditions are conducive for mild incidences of leaf roller and stem borer in rice in and around Thrissur and Thiruvananthapuram. Monitor the crop for the pests and use *Trichogramma* cards @ 2 / acre after spells of rain.
- Monitor pepper for *Phytophthora* wilt in Central zone. Spray 1% Bordeaux mixture or *Trichoderma viride* after current spells of rain to control the disease.
- Attack of mahali disease is reported in arecanut. Apply 1% Bordeaux mixture after spells of rain to control the disease.

- Planting of coconut seedlings can be done in south zone. Planting may be done in the pits of dimension 1m x 1m x 1m at spacing of 7.6 x 7.6 m (approximately 70 palms per acre). Select quality seedlings with at least 10 12 cm collar girth and 6 8 leaves. Also undertake intercropping in grown up coconut garden. Pineapple, banana, tapioca and black pepper are ideal for planting as intercrops in coconut.
- Monitor bitter gourd for downy mildew in and around Thrissur. Spray Dithane M-45 @ 2.5 g / litre of water after spells of rain to control the pest.
- Weather conditions are conducive for mild incidences of Sigatoka leaf spot in banana in and around Thiruvananthapuram. Monitor the crop for the pests and spray *Pseudomonas fluorescens* @ 2g/litre of water after spells of rain.

Tamilnadu

Isolated rain/ thunder showers are likely over the state.

Advisories

- Apply irrigation to groundnut, sugarcane and pulse crops as there was no significant rainfall during last week and rain/thundershowers likely at isolated places over State.
- Monitor sugarcane for shoot borer and if the pest population crosses ETL, undertake spraying of Endosulfan 35 EC or Monocrotophos 40 EC @ 1.5 litres/ha. Release parasite @ 1 cc per time for stem borers after 15 days of spraying. Release parasite @ 1 cc per time for the control of stem borers.
- For preventing boll shedding in cotton spraying Napthalene Acetic Acid (NAA) 40 ppm on 60 and 90 days after sowing is recommended. Nipping the terminal bud between 75 to 80 days after sowing is recommended for preventing the vegetative growth in cotton.
- Prevailing dry climate may induce viral diseases in summer irrigated vegetables. The
 vectors like sucking pests may spread rapidly in this dry climate. Hence spraying of
 Dimethoate @ 500 ml / ha is recommended for controlling these vectors.
- Continue land preparation and nursery sowing for *kuruvai* rice. Total 24 kg of seeds are required for one acre *kuruvai* short duration rice (ADT 43, ADT 45 & ADT 48). Before sowing of seeds, seed treatment with 10gms of *Pseudomonas fluorescens* / kg of seed or 2gm Carbendazim / kg of seed should be mixed with 1 litre of water and the seeds should be uniformly treated. Then the treated seeds should be kept for 12 hours in water and the germinated seeds should be broadcasted in the nursery.
- Due to *E. coli*, death of poultry birds is reported in Northwestern zone. Poultry growers may monitor water quality and keep sanitation to prevent further spread of infection.
- Monitor gingelly for flower webber and sunflower for head borer in and around Kovilpatty. Spray Endosulfan or Quinalphos @ 1 litre / ha to control the pests.

Karnataka

- Rainfall occured at most places on 24th & 25th and at many places on 23rd over Coastal Karnataka; at isolated places on all the days over North Interior Karnataka; at a few places on 23rd & 24th and at isolated places on 25th over South Interior Karnataka.
- Rain/thundershowers are likely at many places over Coastal Karnataka and at isolated places over South Interior Karnataka and North Interior Karnataka.

- Postpone irrigation to sugarcane in coastal Karnataka as rain / thundershowers are likely at
 many places over Coastal Karnataka and apply irrigation over South Interior Karnataka and
 North Interior Karnataka as rain / thundershowers are likely at isolated places for the next
 three days.
- Undertake intercultural operations and propping in sugarcane to prevent the crop from lodging. Monitor the crop for white woolly aphids and release predators like *Dipha* sp, adopt wider spacing, inter-cropping with soybean and pulses of short duration as plant protection

measures against wooly aphids. Plant protection measures and intercultural operations may be undertaken after spells of rain in Coastal Karnataka.

- Continue land preparation and sowing of *kharif* crops like green gram, black gram and jowar by utilizing the monsoon showers.
- Farmers in Mysore are advised to undertake sowing of following crops under rainfed situation. Jowar-CHS-5, Jowar + Redgram (2:1), Groundnut+ Red gram (4:1 or 8:2) by using seed drill.
- Monitor vegetable crops for sucking pests and powdery mildew. To control sucking pests, spray 1.7 ml Dimethoate or 1.0 ml Oxydemitonmethyl dissolved in one liter of water. To control powdery mildew disease, spray the crop with 1.0 g Carbendazime dissolved in one liter of water.
- Farmers in Dharwad are advised to undertake sowing of maize and transplanting of rice and also nursery sowing of tomato, brinjal, onion and chillies by utilizing the monsoon showers

Andhra Pradesh

• Rain/ thundershowers are likely at many places over north Andhra Pradesh and at a few places over south Andhra Pradesh.

Advisories

- As rain/thundershowers are likely at many places over north Andhra Pradesh for the next three days, postpone irrigation to sugarcane and chillies. Apply irrigation in south Andhra Pradesh as rain / thundershowers are at a few places for the next three days. Arrange for drainage facilities in north Andhra Pradesh to avoid water stagnation.
- Undertake intercultural operations, application of fertilizers and pesticides after spells of rain in north Andhra Pradesh and on a non rainy day in south Andhra Pradesh.
- Prevailing weather is congenial for mild incidence of jassids and shoot and fruit borer in bhindi in and around Hyderabad. Spray Dimethoate @ 2 ml / litre of water to control jassids and Quinalphos @ 2 ml / litre of water to control shoot and fruit borer. Spraying of chemicals may be undertaken after spells of rain.
- By taking advantage of rains, take up sowing of sunhemp and dhaincha as in-situ green manure crops and green gram as catch crop / green manure crop before taking up rice.
- Continue land preparation and sowing of *kharif* crops by utilizing the monsoon showers.

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

Assam

• Rain/thundershowers are likely at a many places over the state.

- Flood occurred in some parts of Assam during recent past. Farmers are advised to arrange for draining out excess water from the fields.
- As rain / thundershowers are likely at many places with isolated heavy rainfall during next 48 hours over the State, postpone irrigation and intercultural operation to the crops. Provide adequate drainage facilities to avoid water logging.
- Maintain 3 5 cm of water in early *ahu* rice and regular *ahu* rice field.
- As maize crop is very susceptible to water logging, provision of surface drainage should be made in the field.
- Provide mechanical support to the sugarcane crops to prevent lodging.

- Infestation of hispa and stem borer and diseases like sheath blight and blast is reported in regular *ahu* rice from a few localities. For control of pests like Hispa, stem borer etc., Monocrotophos or Phophomidion @ 5ml per litre of water may be sprayed and for sheath blast & blast diseases use Bavistan @1gm/litre of water to control the disease.
- There is mild chance of attack of hairy caterpillars, semi-lopper and stem weevil in jute. To control these pests, Fenitrothion 50 EC @ 1ml per litre of water or Endosulfan 35 EC @2ml per litre of water should be sprayed.
- There is mild chance of attack of stem borer in maize due to favourable weather condition.
 If the pest population crosses economic threshold level, spray fenitrothion 50 EC @ 2 ml / litre of water.
- Undertake intercultural operations and application of fertilizers and pesticides after current spells of rain.
- For early variety of *Sali* rice such as Pankaj, Ranjit, Masuri, Bahadur, Manohar etc. seed bed should be prepared well. Land should be puddled thoroughly. Seed bed of size 10 m in length and 1.25 m breadth with 30 cm gap should be prepared and in each bed 20-30 kg cow dung / composed manure, 80gm urea, 80gm SSP and 40 gm MOP are to be applied and mixed well with the soil and germinated seeds are to be sown @ 650 1000 gm per bed depending upon the grain size. Requirement of seed per bigha is 5-6 kg.
- This is the time for land preparation and sowing of arhar. Prepare land by 3-4 ploughing. Sow seeds of variety T-21 @ 2 Kg seeds per bigha (15 kg per hectare) maintaining the spacing of 75 cm between rows and 30 cm between plants. Fertilizer @ 5 kg urea, 35 kg SSP per bigha is to be applied. Preparation of land and application of fertilizer may be undertaken after current spells of rain.

Arunachal Pradesh

• Rain/thundershowers are likely at many places over the state.

Advisories

- As rain / thundershowers are likely at many places with isolated heavy rainfall during next 48 hours over the state, postpone irrigation to the standing crops. Provide adequate drainage facilities to avoid water logging.
- Undertake intercultural operations, application of fertilizers and pesticides in ginger, *summer* vegetable crops, *jhum* rice and millets after current spells of rain.

Bihar

• Rain/thundershowers are likely at a few places over the State during next 24 hours and increase thereafter.

- As rain/thundershowers likely at a few places over the State during next 24 hrs and increase thereafter, postpone irrigation to the crops.
- Prepare field and undertake nursery sowing of *Kharif* rice.
- There is mild chance of attack of red spider mite in vegetables. If attack crosses economic threshold level, for controlling the red spider mite spray the crop with sulfex @ 3 kg / ha or share @ 3 kg / ha in 700 litre of water after current spells of rain.
- There is mild chance of attack of mealy bug and anthracnose in fruits. If attack crosses economic threshold level, spray the crop with Endosulfan @ 1.5 ml + Chlorthalonil @ 2g + Planofix @ 1 ml per litre of water after current spells of rain.
- Monitor the sugarcane crop for shoot borer incidence. If attack crosses economic threshold level, apply pesticides after current spells of rain.
- Continue harvesting matured crops of maize, and moong on bright sunny days.

• Undertake intercultural operations, spraying, application of fertilisers after current spells of rain.

Jharkhand

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

Advisories

- As there no sufficient rainfall in most of the districts and rain / thundershowers are likely
 only at a few places over the State during next three days, apply irrigation to vegetables.
 Postpone irrigation in East Singhbum and Palamu districts as there was sufficient rainfall
 during last week.
- Undertake land preparation and sowing of *kharif* crops like rice, groundnut, arhar, mung and maize.
- Undertake intercultural operations, spraying and application of fertilisers on a non rainy day.

Sikkim

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

Advisories

- As rain/thundershower are likely at a few places over the State for next three days, apply irrigation to orange, large cardamom, ginger and vegetable crops.
- Monitor orange for trunk borer and undertake plant protection measures on a non rainy day to control the pest. Also undertake deshooting and debugging.
- Continue harvesting matured crops of large cardamom, orange and maize on bright sunny days.
- Gap filling / replanting may be continued in newly planted large cardamom in mid and low hills up to August. Planting materials may be selected from high yielding sucker nurseries free from pest / disease infestation or diseases free high yielding elite garden. Chirke and foorkey infected plants may be destroyed by uprooting / burial at regular intervals in the pits. Regular inspections may be carried out to observe caterpillar / shoot borer / shoot fly incidence if any and may be hand picked and destroyed mechanically. 1% Bordeaux mixture or copper oxychloried @ 3gm / ltr of water may be sprayed to the cardamom plants to protect from fungal diseases if it is not sprayed in the month of May.
- Continue land preparation and sowing of pre-treated, healthy & certified seeds of vegetables in appropriate and well prepared nursery beds in the vegetable garden.
- Monitor ginger for bacterial wilt in Medium and High hills and collect and destroy the affected plants completely to prevent further spread of the disease.

West Bengal

- SW-Monsoon was active over SHWB on 23rd June. Rainfall occurred at most places with heavy to very heavy at an isolated places on 23rd June, at many places with heavy at an isolated places on 24th and at many places on 25th over SHWB. Rainfall occurred at an isolated places on 23rd June, at a few places on 24th and 25th over GWB.
- Rain/thundershowers are likely at a few places over the state.

- On account of recent excess rain flood situation has occurred over different districts of South Bengal. The following suggestions may be adopted by the farmers:-
- 1. If Aus rice has been spoiled due to recent flood, short duration aman rice may be cultivated.
- 2. Prepare seedbed in high land. If possible, prepare the same jointly.
- 3. If all seedlings have not been spoiled due to flood, fill up the gaps with seedlings and apply 15 Kg urea per hectre of land. After 7 days spray 50% carbandazim @ 1 gram per litre of water.

- As there was sufficient rain during last few weeks in most of the districts over the State and rain/thundershowers are likely at a few places over the state for next 3 days, postpone irrigation to the crops. Arrange for draining out excess water from the fields of sugarcane, jute and already sown / transplanted aus and aman rice and already sown groundnut, pigeon pea and soybean.
- For late sown jute, apply second dose of top dressing (at the stage of 5 to 6 weeks after sowing) at the rate of 6 to 7 Kg per bigha on a non-rainy day.
- Prepare land and complete transplanting of aus rice immediately. Apply 1st top dressing to the early sown direct seeded aus rice @ 20 kg Urea per bigha.
- Land preparation and sowing of broadcasted aman rice may be started. Select H.Y.V like Tilak, Kachhary, Patnai-23, Raghusal etc. Recommended varieties for those lands where water logging cannot take more than 6-8" are Pankaj, C.N-540, C.R- 1009, C.R-1011, Sarnodhan. Complete nursery bed preparation for transplanted aman rice as early as possible. One kattah land is required for transplanting one bigha.
- Undertake sowing of groundnut, pigeon pea and soybean after current spells of rain. Select varieties from B-7, UPS-A-120 etc. for pigeon pea and J.S.-2; Soyamax etc.for soybean.
- This is the proper time for planting the coconut seedlings with a distance of 7.5 x 7.5 meter and 2 meter height of bed.

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

Gujarat

• Rain/thundershowers are likely at isolated places over Gujarat State.

- As there was no significant rain during last week in the State and rain/thundershowers are likely only at isolated places over the State during next 3 days, apply irrigation to sugarcane.
- Apply 75 kg Nitrogen / ha as top dressing to sugarcane. Carry out light earthing up at 90 days after planting.
- Prepare land and sow groundnut when sufficient moisture is available in soil. Treat the Seeds with mercuric fungicides like Thiram, Captan etc. before sowing of groundnut. Under assured irrigation facilities farmers are advised to raise *kharif* groundnut varieties GG-2 (erect) and GG-20 (semi spread) to avoid yield loss due to delayed sowing.
- Prepare land and sow *kharif* cotton when sufficient moisture is available in soil. Dusting of methyle parathion 2% @ 25 kg / ha should be made on ridge / furrow before sowing of cotton crop.
- The first topdressing of Nitrogen should be applied @ 45 kg / ha (100 kg urea) at 30 days of sowing in Hybrid / B.T. cotton.
- In early sown cotton crop, there is mild chance of attack of mealibug infestation. If
 infestation crosses economic threshold level, apply monocrotophos or metasystox @ 20 ml /
 10 liter of water.
- Prepare land and undertake nursery sowing of *kharif* rice. Select the rice nursery site with soil having irrigation facility, good fertility level. Select the desired rice variety from early matured cultivars like Sukhvel–20, GR-3, 4, 6, 7 and late matured cultivars like GR–101, 102, 103, 104, Narmada and Masuri and prepare nursery at 25 to 30 kg seed rate per hectare.
- Prepare land and sow early pigeon pea varieties like Guj PP-1, 100, 101 at spacing of 120 X
 45 cm by dibbling method when sufficient moisture is available in soil and treat seeds with *Rhizobium* @ 25g / kg seeds.
- Sowing operation of rainfed maize, bajra and pulses should be undertaken only under good soil moisture conditions.

Chhattisgarh

• Rain/thundershowers are likely at many places over the state.

Advisories

- .As rain / thundershower is likely at many places with isolated heavy rainfall during next 48 hours over most parts of the State, postpone irrigation to the crops. Arrange for drainage facilities to avoid water stagnation.
- Provide mechanical support to sugarcane to avoid lodging.
- Wherever sufficient rainfall has been received farmers are advised to plough and prepare the fields weed free and undertake sowing of rice if moisture is sufficient for germination. The farmers, who have assured irrigation facilities, are advised to continue sowing of rice to raise nursery so that transplanting can be done timely. For selection of healthy seeds and better germination, seeds should be soaked in 17% salt solution for some time, the unfilled seeds that came out to the surface of water should not be used for sowing.
- Prepare nursery for chilli, tomato and brinjal in shadow.
- Weather conditions are favourable for sowing soybean mainly in Kabirdham, Durg, Rajnandgaon and Bilaspur districts. Hence, farmers are advised to prepare the fields and complete the sowing provided that moisture is sufficient for germination. Recommended varieties for this region are JS-335, Indira Soya 9, JS 80-21, JS 93-05.
- Conditions are favourable for sowing of groundnut and black gram in transmahanadi belt of Chhattisgarh. Sowing of these crops should be completed by the end of this month. Farmers are advised for sowing of maize, pigeon pea, green gram, *urad* and groundnut in the up land areas
- Intercropping of pigeon pea with soybean should be encouraged. For better results, after every four rows of Soybean, 2 rows of pigeon pea should be sown by maintaining 30 cm row to row distance.

Maharashtra

• Rain/thunders showers are likely to occur at many places over Konkan and Vidarbha and at a few places over Madhya Maharashtra and Marathwada.

- As rain is likely to occur at many places in Konkan and Vidarbha during next three days, postpone irrigation to the crops in these regions.
- As most of the districts of remaining parts of the State received no significant rain during last week and rain is likely to occur only at a few for next three days, apply irrigation to sugarcane (pre-seasonal) and sugarcane (suru) in these districts.
- There is mild chance of attack of white woolly aphids and stem borer in sugarcane. For the control of white woolly aphids, spray 35% Endosulphan @ 1.5 ml or Methyl dimeton @ 1.5 ml or Dimethoate @ 1.5 ml /liter water. For the biological control of WWA, release 25000 larvae of Chrysoperla carnea or Dipha aphidivora / ha as predator. Collect the stem borer infested canes with larvae and destroy. Spray 35% Endosulfan 15 ml / 10 litre of water to control stem borer.
- Land may be prepared for the sowing of kharif Cotton. Select the variety from PA 402, American PH 348, Phule 492 or 388, JLH 168, JLA 794, Ganga, Parbhani Sona for sowing.
- There is mild chance of attack of aphids, jassids & thrips in irrigated cotton. For the control of aphids, jassids & thrips, spray 85% Phosphamidon @ 100 ml or 30 % Dimethoate @ 400 ml / ha in 500 litres of water on a non-rainy day after 2 weeks from germination.
- Prepare seed bed for raising of rice seedlings in Eastern Vidarbha. Sow seeds at the depth of 1 to 2 cms & at a distance of 7-8 cm between two rows. For rice PKV-Khamang, PKV HMT, Sindewahi-1, 5, 75, 2001, PKV Ganesh, Karjat6 & Sakoli- 6, 8 for Eastern Vidarbha zone may be selected.

- Postpone application of fertilizer and plant protection measures in Konkan and Vidarbha and perform the same in Madhya Maharashtra and Marathwada on a non-rainy day.
- Farmers are advised to complete preparatory tillage with the help of monsoon showers & land may be kept ready for sowing of kharif crops. Undertake sowing operation after receiving sufficient monsoon rain.
- For sowing select the varieties like Phule Pragati (JL-24), SB-11, TAG-2, Phule Unap (JL-2(1) & Phule Vyas for Kharif groundnut, ICPL-87, Vipula, BSMR-853 or 836 for Western Maharashtra Scarcity Zone and Pragati, Vipula, Amol, BMSR-853 and BSMR-736 for Western Maharashtra Plain Zone for tur, EC-68414, SS-56 & Bhanu for sunflower, JS-335, Phule-kalyani (DS-228) for Western Maharashtra Scarcity Zone, DS-228, MACS-124, JS-335 for Western Maharashtra Plain Zone and TAMS-38, JS-335 & PK-472 for Eastern Vidarbha Zone for soybean, CSH-9, CSH-14, SPV-462, SPV-475 and SPV-946 for kharif sorghum and Shradha, Saburi, MH-179, WCC-75, ICTP-8203 and ICMV-211 for bajra.
- Undertake planting of new orchards and select varieties Ven.-4, Ven.-7 for Cashew and Banavli, Pratap for Coconut.

Madhya Pradesh

• Rain/thundershowers are likely at many places over East Madhya Pradesh and at few places over rest of the state.

Advisories

- As rain/thundershowers are at many places over East Madhya Pradesh for the next three days, postpone irrigation to sugarcane.
- As there was no significant rainfall in West Madhya Pradesh except in Guna, Hoshangabad, Raisen, Rajgarh, Shivpuri and Vidisha districts and rain / thundershowers are at a few places for the next three days, apply irrigation to the crop. As there was excess rain during last week, postpone irrigation to the crops in the above districts.
- Undertake intercultural operations, application of fertilizers and pesticides after spells of rain in East Madhya Pradesh and on a non rainy day in West Madhya Pradesh.
- Complete harvesting moong and urd crops in and around Jabalpur.
- Continue land preparation and sowing of *kharif* crops by utilizing the monsoon showers.
- Farmers in Ujjain, Ratlam, Shajapur, Rajgarh, Neemuch, Indore and Dewas are advised to start land preparation and sowing of maize, jowar and transplanting of vegetables like brinjal, tomato, cauliflower, chillies and onion and sowing of bottle gourd and bitter gourd in the main field by utilizing the monsoon showers.
- Monitor cucurbitaceous crops for red pumpkin beetle and spray Methyl Parathion @ 2 ml/litre of water after spells of rain in East Madhya Pradesh and on a non rainy day in West Madhya Pradesh to control the pest.

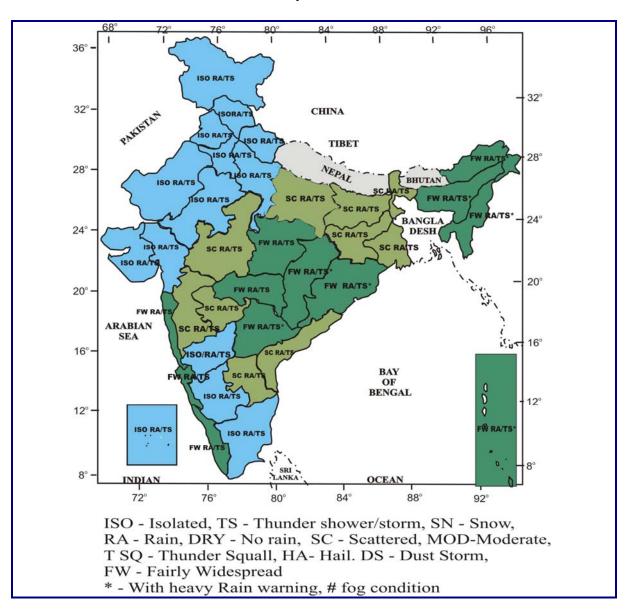
Orissa

• Rain/thundershowers are likely at many places over the State.

- As rain/thunder showers are likely at many places with isolated heavy rainfall during next 48 hours over the State, postpone irrigation to vegetables, moong and early sown sugarcane. Provide adequate drainage facilities to avoid waterlogging due to heavy rainfall.
- There is mild chance of occurrence of aphids in vegetables. If the pest population crosses economic threshold level, spray Dimethoate or Methyl demeton @ 2 ml per litre of water on a non rainy day. Also monitor the crop for leaf blight and spray Mancozeb @ 4-5 gm/litre of water after spells of rain to control leaf blight.
- Monitor sugarcane for early shoot borer and undertake need based plant protection measures after spells of rain.

- Continue nursery sowing/transplanting of rice after current spells of rain
- Continue land preparation after current spells of rain and sowing of baby corn and planting of turmeric, yam and Colocasia

Forecast Valid upto 29th June, 2008



Salient weather features for the week ending 25/06/08

MAIN EVENTS

• Last week's well marked low pressure area over Jharkhand and neighbourhood moved northwestwards and lay as a low pressure area over northeast Madhya Pradesh and adjoining East Uttar Pradesh on 19th and 20th. It lay over East Uttar Pradesh & adjoining areas of Jharkhand and north Chhattisgarh on 21st and became less marked on 22nd over the same region. It caused fairly widespread rainfall activity over central and adjoining east India during 19 to 21. It also caused isolated heavy rainfall over Madhya Pradesh during the same period.

MONSOON WATCH

• No further advancement of southwest monsoon after 16th June 2008.

METEOROLOGICAL ANALYSIS

- Last week's well marked low pressure area over Jharkhand and neighbourhood lay as a low pressure area over northeast Madhya Pradesh and adjoining East Uttar Pradesh on 19th. It persisted over the same area on 20th. It lay over East Uttar Pradesh & adjoining areas of Jharkhand and north Chhattisgarh on 21st and became less marked over the same area on 22nd. However associated cyclonic circulation extending upto 4.5 Km above sea level (asl) lay over East Uttar Pradesh and adjoining area of Bihar, Jharkhand, Chhattisgarh and Madhya Pradesh. It lay over Uttar Pradesh extending upto 2.1 Km asl on 23rd. The cyclonic circulation lay over West Uttar Pradesh and adjoining northwest Madhya Pradesh extending upto 1.5 Km asl on 24th and became less marked on 25th.
- An upper air cyclonic circulation lay over West Bengal and adjoining Orissa on 23rd. It persisted over the same area on 24th. The cyclonic circulation lay over north Bay of Bengal off north Orissa and West Bengal coast on 25th.
- An off shore trough at sea level ran from Konkan coast to Kerala coast during the week.

Rainfall

- Southwest monsoon was active/vigorous over East Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim during 1st half of the week and active over Himachal Pradesh, Gangetic West Bengal and Uttarakhand on 19th. It was active over Andaman & Nicobar Islands on 22nd & 24th
- Widespread/ fairly widespread rainfall occurred over Bihar and Coastal Karnataka during the week and over Arunachal Pradesh and Kerala during many days of the week.
- Widespread/ fairly widespread rainfall occurred over East Rajasthan, Jharkhand, Assam & Meghalaya and East Uttar Pradesh during 19 to 21.
- The monsoon activity has been subdued over Gujarat, Saurashtra, Madhya Maharashtra, Marathawada, Andhra Pradesh, Tamil Nadu and North Interior Karnataka during the week.

Rainfall During The Week (For the week ending on 25th June, 2008)

• Rainfall was excess/normal in 17 and deficient/scanty in 19 out of 36 meteorological subdivisions (Actual: 39.7 mm, Normal: 44.2 mm and Departure: -10%).

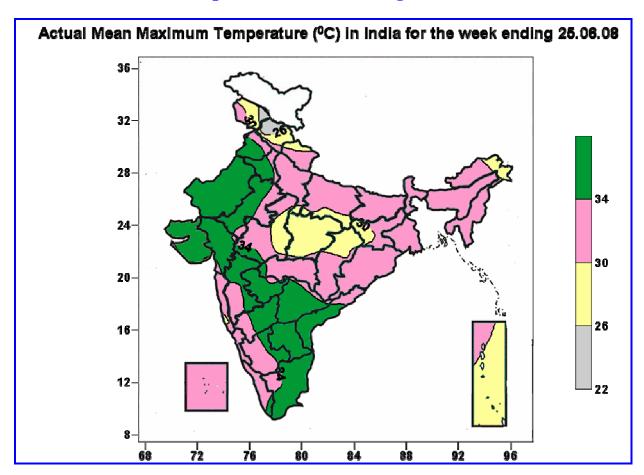
Cumulative Seasonal Rainfall (1st June to 25th June, 2008)

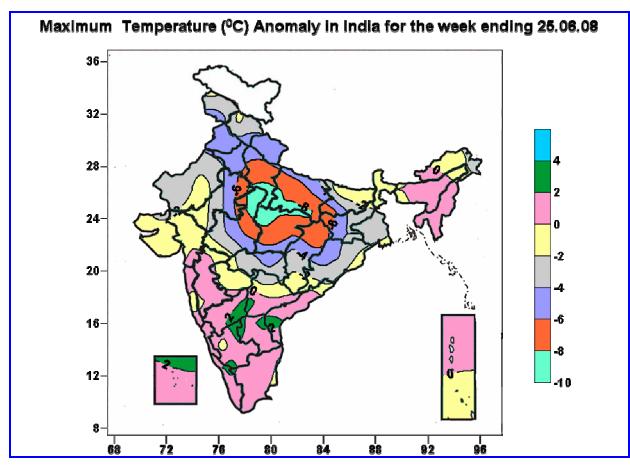
• Rainfall was excess/normal in 27 and deficient/scanty in 9 out of 36 meteorological subdivisions. (Actual: 154.0 mm, Normal: 122.3 mm and Departure: +26%).

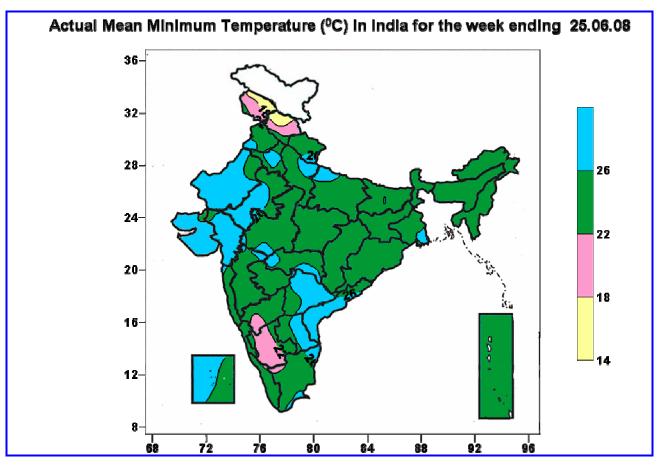
Outlook For The Week Ending On 2nd July, 2008

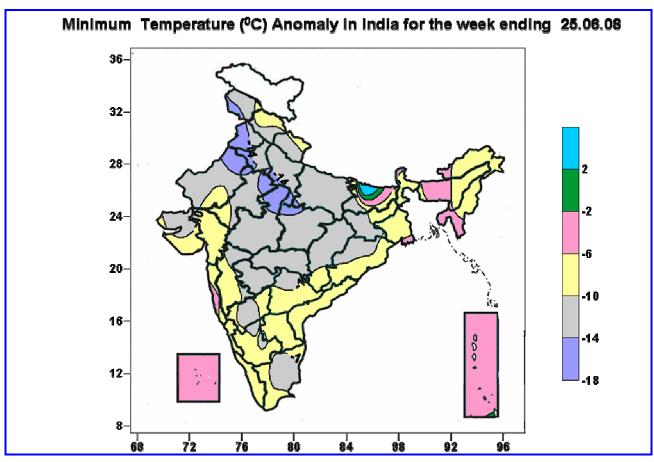
• Increase in rainfall activity along the West Coast and over Indo- Gangetic Plains and adjoining Central India during second half of the week.

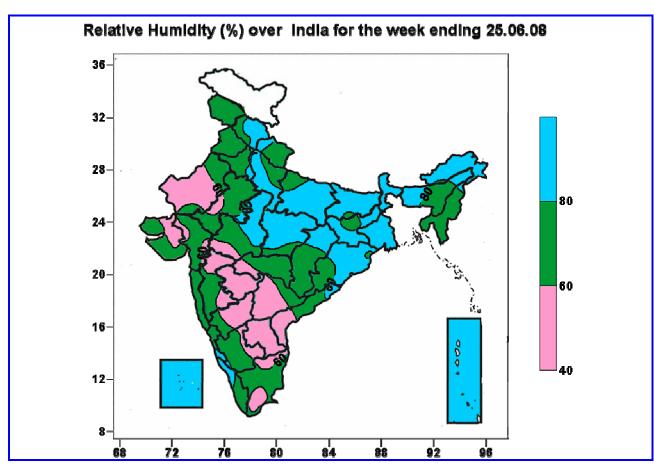
Contour maps for the week ending 25th June, 2008

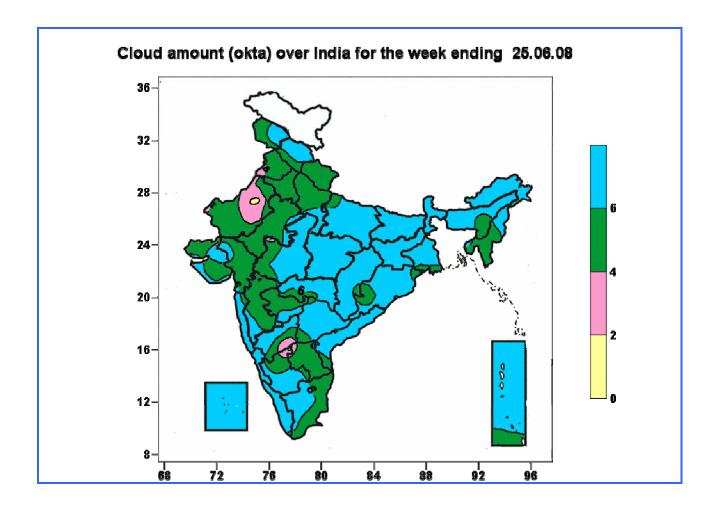


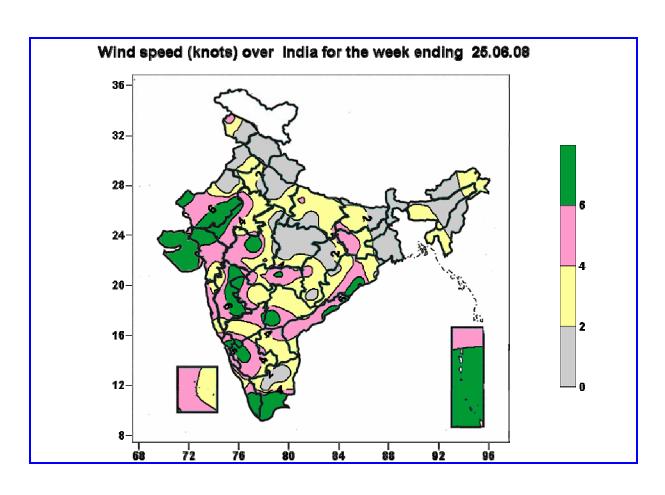














Rainfall (mm)								
Station Name	19/06/08	20/06/08	21/06/08	22/06/08	23/06/08	24/06/08	25/06/08	
Amritsar	0.00	0.00	0.00	0.00	0.00	112.6	0.00	
Barmer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sriganganagar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Jaisalmer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Kota	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Deesa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Churu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

$Temperature (^{o}C) \\$

Station Name	19/06/08	20/06/08	21/06/08	22/06/08	23/06/08	24/06/08	25/06/08
Amritsar	29.4	27.1	27.7	27.7	29.5	29.5	-
Barmer	33.2	33.3	33.4	32.7	33.2	33.1	-
Sriganganagar	33.8	30.4	31.0	-	33.5	35.1	-
Jaisalmer	33.5	32.6	32.9	32.8	32.8	32.7	-
Kota	30.6	30.7	-	32.8	33.5	33.8	-
Deesa	30.1	-	-	-	-	-	-
Churu	31.9	32.0	30.1	31.1	33.9	35.3	-

	Wind														
	19/0	6/08	20/0	6/08	21/0	6/08	22/0	6/08	23/06/0	08	24/0	6/08	25/	/06/08	
Station Name	Dir.	Spee d	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	Dir.	Speed	
Amritsar	ESE	09	SE	04	ESE	05	-	-	SE	08	NE	03	SE	04	
Barmer			SW	20	-	-	-	-	SSW	21	-	-	-	-	
Ganganagar			-	-	-	-	-	-	W	11	W	15	-	-	
Jaisalmer			WSW	04	-	-	-	-	Е	04	WSW	07	-	-	
Kota	-	-	-	-	-	-	-	-	WNW	11	-	-	-	-	
Deesa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Churu	W	17	W	12	-	-	-	-	W	24	w	17	-	-	

Under the prevailing weather conditions, there is no chance of locust infestation in Rajasthan and the adjoining areas during this week.

CROP-STATE-STAGE

New Delhi

Vegetables	Arhar	Rice	Maize	
Vegetative / flowering / fruiting/ harvesting	Land preparation/ sowing	Land preparation and transplanting	Land preparation and sowing	
fruiting/ flat vesting	sowing	transplanting	and sowing	

	TT /* 1/ 1	Haryana		T 0 "
Autumn sugarcane Vegetative	Horticultural crops Vegetative	Sunflower Vegetative/flowering	Summer Pulses Vegetative	Cotton Land preparation
-	-	v egetative/nowering	Vegetative	/Sowing
Rice	Maize			
Nursery sowing/transplanting	Land preparation /Sowing			
		Himachal Pradesh		
Vegetables (Ladies finger/ Cabbage, Cauliflower)	Potato	Rice	Apple	Maize
Vegetative / flowering / fruiting / harvesting	Early vegetative / vegetative	Nursery sowing	Fruit development	Land preparation for sowing
manung mar vosung	,080	Jammu & Kashmir		
Vegetable crops	Rice	Pulses		
Vegetative	Transplanting	Vegetative		
		Punjab		
Autumn sugarcane	Horticultural crops	Summer pulses	Sunflower	Paddy
Vegetative	Vegetative	Vegetative	Vegetative/flowering	Nursery sowing/transplanting
Cotton				
Land preparation for				
nursery sowing		Rajasthan		
Cotton	Summer Vegetable crops	Groundnut		
Sowing	Vegetative	Sowing		
236		Uttar Pradesh		
Summer Sugarcane	Vegetables		Sunflower	Mongo
Vegetative	Fruiting / harvesting	Summer pulses Vegetative	Vegetative	Mango Fruit setting
Oilseeds	Kharif rice	Vegetative	Vegetative	Truit setting
Vegetative	Nursery preparation and sowing/transplanting			
	sowing/transplanting	Uttarakhand		L
				Kharif crops(Rice,
Mango/Litchi	Sugarcane	Potato	Apple	maize, groundnut and vegetables)
Fruiting/picking	Vegetative	Tuber maturity	Vegetative	Land preparation and
		Assam		sowing
Regular Ahu rice	Maize	Horticultural plants	Sugarcane	Summer vegetables
(B/T)Early	Vegetative/ tasseling /			Vegetative / flowering
tillering/tillering	silking	Planting	Vegetative	/fruiting/harvesting
Early Ahu rice	Jute	Arhar	Early sown Arhar	Sali Rice
Panicle initiation/flowering	Vegetative	Land preparation for sowing	Germination/early vegetative	Land preparation for sowing
		Arunachal Pradesh		
Wet seeded rice	Early sown Wet seeded rice	Jhum Rice	Ginger	Maize, Millet
Early vegetative	Land preparation /transplanting	Vegetative	Rhizome formation	Vegetative / flowering
Summer Vegetables				
Vegetative/harvesting				
		Bihar		
getables & fruit crops	Summer Maize	Kharif rice	Sugarcane	Potato

Nursery preparation and sowing

Jharkhand

Vegetables (Tomato, Brinjal, Bhendi)

Maturity

Litchi / Mango

Vegetative/flowering/fruiting

Kharif Paddy

Vegetative/flowering/

maturity

Tuber formation

Numery bed preparation Vegetables Large Cardamon Malze	Nivers a see 1 - 1	Vegetative	Vegetative / flowering / fruiting	;/	
Protecting Pro	Nursery bed preparation		harvesting		
Sugarcane					
Sugarcane Suga	Orange	Vegetables		Maize	
Sugarcane	Fruiting/Harvesting	niting/Harvesting Sowing		Grain maturity	
Pod formation/seed formation/early maturity muturity muturity muturity muturity formation/early muturity formation/early muturity muturity muturity muturity muturity muturity muturity muturity formation/early muturity formation/early muturity muturity muturity muturity formation/early muturity muturity formation/early formation/early formation/early muturity formation/early formation/e			West Bengal		
Vegetative Veg	Sugarcane	Jute	Sesamum	Groundnut	Green Gram
Boro rice	Vegetative			maturity	
Sugarcane Sesame Chatasgarh Sowing furnery sowing Sowing Funting	Boro rice	Aus Rice	Aman rice	Pigeonpea and	Coconut
Sugarcane					Planting
Sugarcane	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	U	
Autumn sugarcane	Sugarcane	Sesame		Vegetables	Green gram
Nogetative Other Kharif crops Land preparation for sowing Country		Pod formation / se	ad		
Land preparation for sowing Cujarat	Vegetative	formation/ early mat	urity Sowing/nursery sowing	harvesting	Early maturity
Sugarcane Other Kharif crops Kharif groundnut Kharif cotton Kharif rice	Soybean				
Sugarcane Other Kharif crops Kharif groundnut Kharif cotton Kharif rice	Land preparation for sowi		for		
Vegetative Land preparation / sowing Land preparation / sowing Land preparation / nursery sowing			Gujarat		I
Sugarcane Preseasonal (Madhya Maharashtra Sugarcane (Suru) (Madhya Maharashtra Marthwada xovidarbha) Sugarcane (Suru) (Madhya Maharashtra Summer sunflower Kharif Cotton Maharashtra Marthwada xovidarbha) Sugarcane Active growth / elongation / elongation Potato (Madhya Maharashtra Marthwada xovidarbha) Sugarcane Active growth / elongation Vidarbha Sowing / germination Vegetative Vidarbha Sowing / germination Vegetative Sowing / germination Vegetative Sowing / germination Vegetative Sowing Planting Sogarcane Planting Planting Planting Planting Planting Planting Sogarcane Planting Planting Planting Planting Planting Sogarcane Planting Plant	Sugarcane	Other Kharif cro	os Kharif groundnut	Kharif cotton	Kharif rice
Sugarcane Preseasonal (Madhya Maharashtra, Marthwada and (Madhya Maharashtra, Marthwada & Vidarbha) Elongation / cane development elongation / vidarbha Swing / germination / elongation / vidarbha Swing / germination / elongation / elongation / vidarbha Swing / germination / elongation / elongation / elongation / vidarbha Swing / germination / elongation / el	Vegetative				
Sugarcane Preseasonal (Madhya Maharashtra, Marthwada and (Madhya Maharashtra, Marathwada & Vidarbha)		<u> </u>		Č	, ,
Elongation / cane development elongation Vegetative Vidarbha Sowing / germination Vegetative Sowing / germination Vegetative Sowing / germination Vegetative Sowing / germination Sowing / germination Other Kharif crops	(Madhya Maharashtra	(Madhya Mahrash Marthwada and	tra,	Kharif Cotton	Maharashtra, Marathwada &
Irrigated cotton Kharif Rice Kharif Groundnut Fruit crops Other Kharif crops		Active growth /			,
Nursery sowing-E. Vidarbha Germination-Other zones					Other Kharif crops
Madhya Pradesh Sugarcane Summer Sugarcane Summer moong Harvesting	J	Nursery sowing-	_	•	
Sugarcane Summer Sugarcane Summer moong Harvesting		Germination-Other zo			
Grand growth Vegetative/grand growth Harvesting					1
Orissa Vegetable crops Kharif Rice Sugarcane Moong Maize			Ŭ		
Vegetable crops Kharif Rice Sugarcane Moong Maize	Grand growth	Vegetative/grand gro			
Flowering / fruiting / harvesting Sowing Vegetative Vegetative Sowing		Ī			Γ
Sowing Vegetative Sowing Vegetative Sowing Vegetative Sugarcane Vegetative Vegetative Vegetative Sugarcane Sugarca					
Sowing Vegetative Andhra Pradesh			Vegetative	Vegetative	Sowing
Chillies Sugarcane					
Chillies Sugarcane Vegetative Vegeta	Sowing	vegetative	Andhra Pradach		
Vegetative Vegetative Vegetative Karnataka	Chilling	Sugarcana	Anuma i rauesn		
Annual sugarcane Kharif crops Early kharif Crops					
Annual sugarcane Kharif crops Early kharif Crops Tillering Sowing Early vegetative Kerala Virippu- rice Vegetative/tillering Planting Land preparation for new planting Planting Tamil Nadu Rice (Kuruvai) Sugarcane (Early, Mid season) Sugarcane (Early, Mid season) Maize/Jowar/Bajra/Samai Groundnut/Black gram/Green gram/Red gram Special season sugarcane	· ogettat ve	, 05000110	Karnataka	<u> </u>	
Virippu- rice Rubber Coconut Banana Pepper	Annual sugarcane	Kharif crops			
Virippu- rice Rubber Coconut Banana Pepper	Tillering	Sowing	Early vegetative		
Vegetative/tillering Planting Land preparation for new planting Planting Land preparation for new planting Tamil Nadu Rice (Kuruvai) Sugarcane (Early, Mid season) Maize/Jowar/Bajra/Samai Groundnut/Black gram/Green gram/Green gram/Red gram Special season sugarcane			Kerala		
Rice (Kuruvai) Sugarcane (Early, Mid season) Maize/Jowar/Bajra/Samai Groundnut/Black gram/Green gram/Red gram Special season sugarcane	Virippu- rice Rubber		Coconut	Banana	
Rice (Kuruvai) Sugarcane (Early, Mid season) Maize/Jowar/Bajra/Samai Groundnut/Black gram/Green gram/Red gram Special season sugarcane		Planting	planting	Planting	
Rice (Kuruvai) Sugarcane (Early, With season) Maize/Jowar/Bajra/Samai gram/Green gram/Red gram			Tamil Nadu		
	Rice (Kuruvai)	_	id Maize/Jowar/Bajra/Sai	nai gram/Green	
	Sowing	Cane development / matu	rrity Grain maturity		Grand growth

Sorghum	Cotton		
Sowing	Boll maturity/picking		