National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Valid for 3rd to 16th June, 2016

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Earth System Science Organisation
India Meteorological Department

&

Indian Council of Agricultural Research (ICAR)
All India Coordinated Research Project on Agricultural Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad
Realized Rainfall
(19th May to 1st June 2016)

- Normal or above normal rainfall occurred during last two weeks in Uttarakhand, Punjab, Haryana & Delhi, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram, Tripura, East Madhya Pradesh, Andhra Pradesh, South Interior Karnataka and Tamil Nadu.

- Normal or above normal rainfall occurred in either of the last two weeks in Jammu & Kashmir, Himachal Pradesh, East Rajasthan, Sub-Himalayan West Bengal and Sikkim, Arunachal Pradesh, Assam & Meghalaya, Odisha, North Interior Karnataka and Kerala.

- Below normal rainfall or no rain occurred in the last two weeks over West Rajasthan, West Madhya Pradesh, Chhattisgarh, Maharashtra, Goa, Gujarat State, Coastal Karnataka and Telangana.
Extended Range Forecast System

Subdivision wise rainfall forecast map for the next 2 weeks (IC = 1 June)

Rainfall forecast (mm/day) (03 June – 16 June, 2016)

- Normal or above normal rainfall is likely to occur during next fortnight over Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Madhya Pradesh, Coastal Karnataka, Rayalaseema, Kerala and Tamil Nadu.

- Normal or above normal rainfall is likely to occur in either of the next two weeks in Jammu & Kashmir, Punjab, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Gujarat State, Konkan & Goa, Odisha and Interior Karnataka.

- Below normal rainfall is likely to occur during the next two weeks over Haryana & Delhi, West Uttar Pradesh, Rajasthan, Marathwada, Vidarbha, Madhya Pradesh, Chhattisgarh, Telangana and Coastal Andhra Pradesh.

Notes:
- Rainfall figures are based on MME forecast
- Bold figures indicate forecast Normal rainfall (mm/day)
- Percentage Departures of Rainfall are shown in Brackets
The southwest monsoon is likely to set in over Kerala on 7th June with a model error of ± 4 days.

The southwest monsoon has further advanced into some more parts of southeast Bay of Bengal and some parts of southwest and eastcentral Bay of Bengal. The Northern Limit of Monsoon (NLM) passes through Lat. 5.0°N/ Long.80.0°E, Lat. 11.0°N/ Long.87.0°E, Lat. 14.0°N / Long. 90.0°E and Lat. 17.0°N / Long. 95.0°E.

Conditions are favourable for onset of the southwest monsoon over Kerala during next 3-4 days.

Though there is delay in onset of monsoon over Kerala and arrival over Karnataka, there were very good pre-monsoon showers during previous week and likely to continue during succeeding week. This facilitates land preparation and sowing of kharif crops in Kerala, South Interior Karnataka and Coastal Karnataka.

Extended Range Forecast (ERF) indicates main rainfall belt over extreme south India and parts of northeast India during the period 3- 9 June with increase in rainfall over Northeast States and parts of eastern states and northward extension of rain belt along the west coast during the period 10-16 June i.e. improvement in rainfall activity in later part of first fortnight of June as compared to first part.

Prevailing weather conditions are suitable to continue agricultural activities like land preparation / sowing of kharif crops in North-eastern states, Kerala, Karnataka,
Maharashtra, West Bengal and Jharkhand.

- As rainfall activity is likely to continue over Kerala, continue nursery sowing for rice, vegetables and planting of orchard crops.
- Heat wave / high temperature conditions prevailed in Coastal Andhra Pradesh, Telangana, Vidarbha and Madhya Maharashtra. Heat wave conditions are expected over most parts of North and Northwest India and western parts of central India except some eastern coastal region during 3-9 June; most parts of eastern states and central parts of India (Odisha, Chhattisgarh, East UP) is expected to be warmer during 10-16 June.
- In view of prevailing heat wave conditions, apply light and frequent irrigation to summer vegetables, sugarcane and orchards in the above States during evening hours. Also undertake soil mulching or mulching with straw or polythene to conserve soil moisture.

The following advisories are issued for North-eastern States, Kerala, Karnataka, Maharashtra, West Bengal, Odisha and Jharkhand.

Kerala

Kerala State received good rainfall during May and rainfall activity is likely to continue during next fortnight.

**Major advisories for kharif crops**

- Direct sowing of rice in Problem Area Zone and Northern Zone.
- Continuation of nursery sowing of Virippu rice in Southern Zone.
- Nursery sowing of rice (variety: Jyothi) in Central Zone.
- Continuation of planting of vegetables like bhindi, brinjal and chilli in Problem Area Zone.
- Continuation of sowing of kharif vegetables like bhindi, bitter gourd, amaranthus in High Altitude Zone and bhindi, brinjal, cucurbits like pumpkin, cucumber, bottle gourd in Southern Zone.
- Adequate drainage from rice nursery, vegetables and orchards to avoid water stagnation.
- Following up of stale seed bed technique for the management of weeds.

**Other Advisories**

- Continuation of planting of ginger and turmeric with adequate drainage facility in Central Zone.
- Continuation of planting of coconut, arecanut, pepper and cardamom in the High Altitude Zone.
- Continuation of planting of coconut seedlings in Problem Area Zone and in Southern Zone; avoid water logging in the pits.
- Provide adequate drainage in Nutmeg, sugarcane in Southern Zone.
- The nursery and early stages of the rice (Jyothi, Kanchana) crops in Central Zone are attacked by swarming caterpillar leaving the plant as mere stumps; apply Carbaryl 3-4 g / litre of water.
- Cultivation of ginger, turmeric, banana, mulberry and tuber crops as intercrops along with coconut.
- Coconut: Open the basins for application of fertilizers / lime. The weather conditions may favour the attack of bud rot. Clean the affected parts and apply Bordeaux paste.
- Rubber: Resume tapping as good showers occurred. Start arrangements for rain guarding.
Subsequent tappings only after drying of latex. In order to control fungal diseases in young budded plants, spray Copper-oxy-Chloride 4g/1 litre of water in clear weather conditions.

- Cardamom: Take necessary control measures against thrips, white flies in cardamom.
- Cashew: Harvesting is continuing in cashew. Closely watch the trees for early detection of stem borer attack. If attacked, chisel out the grubs and swab the tree trunk with carbaryl WDP @4g/L of water.

Karnataka

Good rainfall occurred over South Interior Karnataka during last three weeks and likely to continue in next week over South Interior Karnataka and in next fortnight in Coastal Karnataka. In North Interior Karnataka rainfall occurred in first part of last fortnight and likely in first part of next fortnight.

Major advisories for kharif crops

Coastal Karnataka
- Nursery sowing of rice in Coastal Zone and sowing of groundnut in Hill Zone.
- Sowing of kharif maize, cotton.
- Continuation of nursery raising for seedlings of black pepper in Hill Zone.

South Interior Karnataka
- Sowing of red gram (TTB-7, BRG-1, 2, 4, 5), maize, groundnut (TMV-2, JL-24, KCG-6), and ragi (Indaf -9, ML-365) in Eastern Dry Zone.
- Continuation of land preparation and sowing of seseme (Navile-1, T-7), green gram (PS-16, PDM-84,178), black gram (Karagao-3, T-9, Rashmi), cowpea (TVX-944, KBC-1) and castor (DCS-9 (Jyothi), DCH-177 & 32) in Eastern Dry Zone.
- Nursery sowing of rice and sowing of red gram, groundnut, sorghum, sunflower, cotton and maize in Central Dry Zone with receipt of sufficient rain.
- Nursery sowing of rice, sowing of red gram, groundnut, sorghum, sunflower, maize, cotton and ragi in Southern Transition Zone utilising realised and expected rainfall.
- Sowing of pulses like cowpea, green gram, black gram, horse gram, field bean etc., ragi, sorghum and maize in Southern Dry Zone.
- Continuation of summer deep ploughing across the slope in remaining parts of the region to improve infiltration and conservation of rain water and keeping the inputs ready for pre-monsoon sowing.

North Interior Karnataka
- Continuation of deep ploughing across the slope to improve infiltration and conservation of more rain water.
- Continuation of land preparation for nursery sowing of rice, for sowing of kharif crops like jowar, pearl millet, red gram, black gram, maize, groundnut, soybean, sunflower, sesame and utilising realised and expected rainfall.
- Making ridges and furrows or compartment bunding so as to conserve rain water received due to pre-monsoon showers.
Other Advisories

Coastal Karnataka
- Sowing of green manure crops.

South Interior Karnataka
- Continue planting of ginger and turmeric.
- Provide adequate drainage in arecanut fields.
- Ploughing across the slope and land leveling which helps in conserving more rain water in the soil.
- Planting of coffee, cardamom, arecanut and banana in Kodagu district of Southern Transition Zone.
- Strengthen the bunds to facilitate conservation of rainwater due to pre-monsoon showers.

North Interior Karnataka
- Continuation of harvesting of fully matured fruits of mango to avoid the damage due to rain/wind.
- Take up the repair of bunds and check dam so as to reduce the runoff and to check the soil erosion.

Andhra Pradesh
Rainfall occurred over Andhra Pradesh and likely to continue over Rayalaseema during next fortnight. No significant rainfall activity is likely over Coastal Andhra Pradesh during next fortnight.

Coastal Andhra Pradesh
Major advisories for kharif crops
- Completion of sowing of sesameum in North Coastal Zone. The recommended varieties are Hima, Sarada (YLM 66). Continuation of land preparation for sowing kharif crops like bajra, red gram, green gram, black gram; planting of rainfed sugarcane.
- Continuation of land preparation for sowing of pulses (red gram green gram and black gram) and Bt. cotton in Krishna Godavari Zone and sowing in third week of June after receipt of sufficient rainfall.
- Procure good quality seeds from reputed firms.
- Utilizing the available soil moisture, take up sowing of green manure crops like Sun hemp or Daincha in paddy fields in North Coastal Zone

Other Advisories
- Intercultivation in main and ratoon crops of sugarcane in between rows in North Coastal Zone.

Rayalaseema
Heavy rainfall occurred in Anantpur and Kurnool districts during last week and rainfall activity is likely to continue.

Major advisories for kharif crops
- Continuation of land preparation and nursery sowing of rice (early kharif plantings: Pushkala, Rasi, IR64); continuation of land preparation for sowing of maize (medium duration hybrids/varieties: DHM 111, DHM 117, DHM-119, KH 510, Bio 9637, KH 9541,
MCH 2, Kohinoor, Prabhal and Bisco 855), groundnut (Kadiri-7 Bold, Kadiri-8, Bold, kadiri-6 Kadiri-9, Kadiri Harithandra, Kadiri Anantha), red gram, green gram and black gram in High Altitude Tribal Zone.

- Continuation of land preparation for sowing of kharif crops like red gram, black gram, sunflower, sorghum, castor etc. in Anantpur and Kornool districts of Scarce Rainfall Zone and continuation of deep summer ploughing in Southern Zone; application of FYM before deep summer ploughing to enhance the water holding capacity of the soil.

- Continuation of nursery sowing of rice (MTU 1010, Nellore Masuri) in Nellore district; sowing of kharif groundnut (Narayani, Abhaya, Dharani, K-6, Grishma, TPT-4, K-6) in first fortnight of June in Chittoor, Cuddepah and Nellore districts which received significant rain during previous fortnight and where availability of water is there in Southern Zone.

- Continue planting of sugarcane in Southern Zone.

- Keep inputs ready for kharif sowing.

**Advisories for other crops**
- Completion of harvesting of summer pulses in Southern Zone.

**Maharashtra**

Rainfall is likely to occur only in Madhya Maharashtra in next fortnight.

**Konkan**

**Major advisory for kharif crops**

- Nursery sowing of kharif rice and finger millet.
- Sowing of kharif crops like rice, nagli and vari in Sindhudurg district.
- Continuation of sowing of kharif vegetables like okra (sowing on ridges and furrows), cucumber, bitter gourd, snake gourd, ridge gourd (on soil mounts).
- Land preparation and sowing of kharif groundnut in later part of first fortnight of June.
- Procurement of seeds of groundnut and nagli.
- As there is possibility of infestation of Mango fruit fly, install ‘Rakshak’ fruit fly traps with Methyl eugenol developed by Dr. BSKKV, Dapoli @ 4 traps per ha.

**Other Advisories**

- Continuation of new planting of mango, cashew, coconut and arecanut.
- Mulching with black 25 micron polythene in between two trenches or beds of fruit crop nurseries to control weeds, increase soil temperature and for soil water conservation.
- Planting of biennial forage crops like Paragrass, Napier, Gajraj etc.
- Mulching in pineapple crop.
- Harvesting and transportation (during night hours) of matured mango fruits.
- Protect the animals and poultry birds during rains.

**Marathwada**

**Major advisory for kharif crops**

- Land preparation for sowing of cotton, pigeon pea (rainfed: BDN-2, BDN-708 (Amol),
BDN-711, BDN-716; irrigated: BSMR-853, BSMR-736), green gram (BM-4, Kopargaon, BPMR-145, BM-2002-01, BM-2003-2), black gram (BDU-1, TU-1), groundnut (JL-24, LGN-2 (Manjra), TLG-45, LGN-1, LGN-123) and maize (early varieties: Paras, Arun, Kiran, Surya; mid late varieties: Navjot, Manjra, DMH-107, KH-9451, MHH), late varieties: Prabhat, Deccan-103, K-2492, Bio-9381, Maharaja) and also for soybean. Ploughing followed by 2 to 3 harrowing; application of appropriate amount of FYM before last harrowing.

- Nursery sowing of kharif onion, tomato, chilli, bitter gourd, cluster bean etc. and sowing of bhindi.

**Advisories for other crops**
- Sowing of fodder crops like African Tall, Ganga-5, Vijay and Manjari.
- Preparing pits of proper size for planting of mango and custard apple crops.
- Mulching with farm waste, dry grass, leaves and twigs in orchards and vegetable crops.

**Vidarbha**

**Major advisory for kharif crops**
- Land preparation for nursery sowing of kharif rice in Eastern Vidarbha Zone.
- Continuation of preparatory tillage for sowing of kharif jowar, soybean, cotton, green gram, red gram and black gram.
- Keep inputs ready for sowing of kharif crops like red gram (ICPL-87119 (Asha), C-11), cotton (desi cotton: AKA-5, 7, 8, American improved varieties: AKH – 081, PKV-Rajat, AKH-8828, hybrid varieties: PKV-DH-1), soybean, green gram, black gram, sorghum etc.

**Advisories for other crops**
- Tree basins of fruit crops should be mulched to conserve moisture. Juvenile/young plantation should be protected from heat with thatches and mulching of basins. Thatches may be made of cotton/pigeon pea stalks/green shade net, etc. Apply light and frequent irrigations to summer crops/orchards preferably during evening hours.
- Under prevailing high temperature and water shortage conditions avoid pre-monsoon cotton sowings.
- Wherever possible water bodies may be covered or treated with anti-evaporant sprays to check evaporation losses.
- Cultivation of vegetables like bitter gourd, tinda, ridge gourd, smooth gourd, bottle gourd, cowpea, cluster bean, coriander etc. in Central Vidarbha Zone.
- Planting of binneal forage crops like Paragras, Napier, Gajraj etc.

**Madhya Maharashtra**

**Major advisories for kharif crops**
- Nursery raising for kharif rice.
- Continuation of preparatory tillage for sowing of kharif jowar, soybean, cotton, red gram, green gram and black gram.
- Keep the inputs ready for kharif sowing. Improved varieties:

  **Soybean**: Phule Kalyani, Phule Agrani (KDS 344), JS 335, MACS 11188.

Groundnut: Phule Morana, Phule Pragati, Phule Vyas, Phule Unnati, Phule RHRG 6021

Rice: Halava: Karjat 184, Ratnagiri 1, Karjat 4, Ratnagiri 711, Phule Radha
Ningarva: Jaya, Phule Maval, Phule samruddhi, Phule R G – N-6
Garva: Ratnagiri 2, Karjat 2, Daramna, Suvarna
Scented rice: Basmati 370, Indrayani, Prabhavati, Sughandha.
Hybrid: Sahyadri 1, Sahyadri 2, Sahyadri 3, Sahyadri 4, Sahyadri 5, K R H 2.

Advisories for other crops

• Land preparation for cultivation of ginger and turmeric where irrigation facility is available.

• Application of irrigation in sugarcane in Kolhapur district.

• Cultivation of sorghum, bajra, maize, cowpea and hybrid napier as green fodder for livestock.

Gujarat

Rainfall is likely to occur in later part of next fortnight.

Major advisories for kharif crops

• Preparatory tillage for kharif crops.

• Continuation of land preparation for sowing of pearl millet, groundnut, pulses (green gram, black gram, cow pea, pigeon pea), sesame, cotton in North Saurashtra Zone.


• Land preparation for sowing of groundnut in Middle Gujarat Zone.

Other Advisories

• Continuation of land preparation for kharif rice and nursery sowing of ragi in South Gujarat Heavy Rainfall Zone.

Good rainfall occurred in the States of Northeast India and in East India and likely to continue in next fortnight except in Odisha where rainfall will be likely to occur in later part of next fortnight.

Arunachal Pradesh

Major advisories for kharif crops

• Nursery sowing and transplanting of rice.
Sowing / transplanting of summer vegetables like cucumber, sponge gourd, bottle gourd and ladies finger.

Agro Forestry

- Sowing of seeds of toko palm in poly bags @ 1 seed/bag for nursery in West Siang District.

Assam

**Major advisories for kharif crops**

- Completion of transplanting of normal ahu rice.
- Sowing of boro rice in Lower and Central Brahmaputra Valley Zone. (varieties: Maguri, Kekua Bao, Negheri Bao, Tara Bao for Nagaon and Morigaon districts).
- Nursery raising of sali rice (varieties: Ranjit, Bahadur, Peoli, Moniram, Pankaj, Kushal etc. for typical lowland paddy area, medium duration varieties: Satya and Basundhara T.T.B.-404, Mulagabharu, Kanaklata, Joymoti, IR-36, IR-64).
- Undertake propping up in sugarcane crop due to heavy thunder squalls for next 5 days.

**Advisories for other crops**

- Land preparation and sowing of turmeric and ginger in Central Brahmaputra Valley Zone.
- Mulching, weeding and earthing up in ginger plant in Hill zone.
- Sowing of bottle gourd and planting of lemon in Lower Brahmaputra Valley Zone.
- Planting of okra in Barak valley Zone.
- Planting of papaya in Central Brahmaputra Valley Zone
- Planting of tapioca in Hill Zone.
- Planting of pineapple in North Bank Plain Zone and Hill Zone.
- Planting of guava (varieties: Alahabad Safeda, Lucknow-49, Chittidar, Seedless) in Upper Brahmaputra Valley Zone.
- Completion of sowing of jute (varieties: Olitorious) and mesta (varieties: HC 583 and AMC 108) in Central and Lower Brahmaputra Valley Zone.
- Sowing of Colocasia (varieties: Kaka Kachu, White Gaurya, Panchamukhia, Nadia, Ahinia Kachu and Birbhum) in Lower Brahmaputra Valley Zone.
- Sowing of fodder crops like Hybrid Napier, Setaria and Guinea etc. may be planted at a spacing of 45 cm in Upper Brahmaputra Valley Zone.

Meghalaya

**Major advisories for kharif crops**

- Nursery raising of sali rice (varieties: Shahsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1- 411 & local varieties like Mendri, Manipuri)
- Sowing of groundnut (varieties: ICGS76 and JL 24)
- Sowing of soybean (varieties: JS 335, Bragg, Ankur, Pusa Soybean-1 and Local JS 2.)

**Advisories for other crops**

- Planting of High Yielding Varieties of ginger/turmeric (varieties: turmeric- Lakadong, RCT-1, ginger- Nadia, Poona, Riodegenerio etc.).
Manipur

Major advisories for kharif crops
- Drain out water from flooded fields of Early kharif rice.
- Sowing of soybean, groundnut and black gram.
- Sowing of kharif rice in nursery.

Mizoram

Major advisories for kharif crops
- Nursery sowing of rice.
- Sowing of kharif green gram, black gram.

Advisories for other crops
- Transplanting of brinjal and chilli in the main fields.
- Sowing of maize, okra, French bean, cowpea, Colocasia, planting of ginger and turmeric and also new planting of orchard crops like passion fruit, Khasi mandarin and acid lime.

Tripura

Major advisories for kharif crops
- Sowing of groundnut (TAG 24, TG 37A, ICGS 76), Maize (Varieties: DMH-849, 117, HQPM 1 and BQPM 9 etc) in upland and medium upland regions.

Advisories for other crops
- Maintenance of 5 cm water level in boro rice fields (flowering stage).

West Bengal

Major advisories for kharif crops
- Land preparation for nursery sowing of aman rice.
- Continue transplanting of Aus-rice in Laterite and Red Soil zone.
- Sowing of bitter gourd as kharif crop.

Advisories for other crops
- Land preparation and planting of ginger and turmeric in Terai Zone.
- Selection of high land, preparation of field with well drained channel, seed treatment (Carbendazime 1gm + Mancozed 2 gm) / kg of rhizome, and drying in shadow place. Seed Rate For Ginger-250 kg/bigha and Turmeric -300 kg/bigha in Tarai zone.
- In Hill Zone, undertake land preparation for new plantation of large cardamom.
- Completion of transplanting of chilli in the main field and planting of ginger in Hill Zone.
- Undertake harvesting of matured sesame in Laterite and Red Soil zone.
- Deep summer ploughing should be done in harvested boro paddy field to destroy eggs and pupa of insects.

Andaman & Nicobar
- Raising nursery of vegetable like chilli and brinjal in the upland area of Portblair.
- Prepare rice nursery and use CSR 36 for low laying area.
- Prepare the raised bed for sowing of cowpea in double row system.

Advisories for remaining States
Advisories for Central and North India

- Undertake harvesting of summer crops in central and North India.

Odisha

Major advisories for kharif crops

- Undertake sowing of rice in nursery (short duration varieties: Sahabahi, Khandagiri, Udaigiri, Kalinga-3, Jyotirmayee, Mandakini etc. for bonded upland, medium duration rice varieties: MTU-1010, Lalat, Konarka, RGL-2538, chandan, Surendra, Nabin, MTU-1001, Manaswini, Surendra, Tapaswini etc. in medium land and medium late duration varieties: Tejaswini, Hiranmayee, Satyakrishna, Pratikshya, Ranidhan, Mrunalini, Pooja, MTU-7029, RGL-2537, Ranjeet etc. in low land.).
- Sowing of HYV cotton (varieties: Suraj, Supriya, B.S.-30, B.S.-279, Surabhi, Hybrids varieties: Bunny, Diana, Bhaskra, Namaskara, Tulasi, Sigma, Chiruta, Takat etc). For high density Planting system (HDPS), varieties suitable are BS-30, BS-279, Suraj and Supriya.
- Sowing of arhar (varieties: Asha, Laxmi, UPAS-120, ICPL-88039).
- Sowing of maize (varieties: Shakti-1, Navjot, Decan-107, Decan-109 etc. and hybrids varieties: Megan-G, Megan, MM-1107, Highshell, Prabal, Proagro 4643, Bio9681, Pinnacle, DMH-7705).
- Go for direct seeding of rice in low and deep low land and complete direct sowing by 2nd week.

Advisories for other crops

- Grow suitable high yielding varieties of yam like local variety: Shreekirti, Shreerupa, Hatikhoj, Shreeshilpi., Small yam: Shreelata, Shreekala, White yam: Shreesubhra, Shreepriya, Shreedhanya, 8-10 quintals yam required for planting in one acre.
- Planting of ginger (varieties: Suprova, Suruchi, Suravi) in North Eastern Plateau zone.
- Sowing of Dhaingcha in paddy field as green manure crop prior to two months before transplanting paddy. Accordingly start land preparation for sowing Dhaincha in paddy field taking the advantage of pre monsoon rain and sow 16kg seeds /acre.

Jharkhand

As good rainfall occurred in last fortnight and likely to continue in next fortnight.

Major advisories for kharif crops

- Sowing of maize (Birsia Makka-1, Birsia Makka-2, Suwan-1(Hybrid), HQPM (Hybrid)).
- Planting of ginger (Vardhaman or Nadia) and turmeric (Rajendera Sonia).
- Prepare rice nursery bed in 1000 sq m. for transplanting. Improved varieties for medium land rice: Anjali, Sahabagi, Naveen, Lalat, Birsamati, Sugandha, BR-10, Pro-Agro 6444, IR-36, IR-64etc. Improved varieties for low land rice: Swarna (MTU-7029), Rajshree, Sambha Mahsuri (BPT-5204), Birsia Dhan- 202, Birsamati, Pro-Agro 6444, etc.
Advisories for other crops

- Timely transplanted summer rice crop is at maturity stage. Harvest the crop in a clear weather.
- Keep the harvested produce at safer place.

Jammu & Kashmir

Major advisories for kharif crops

- Continue land preparation for nursery raising of early transplanted rice in Sub Tropical Zone.
- Continue preparation of the field for sowing of rice nursery in Valley Temperate Zone. Prepare land for cultivation of maize crop.

Advisories for other crops

- Continue sowing of okra (Varsha Upmar, Arka Anamika and Hissar Unnat) in Intermediate Zone.
- Continue transplanting of cole, solanaceous and cucurbits crops in the main field in Valley Temperate Zone.

Himachal Pradesh

Major advisories for kharif crops

- In Sub-Montane and Low Hills Sub-Tropical Zone and Mid Hills Sub Humid Zone, undertake nursery sowing of rice and treat the seed before sowing with Bavistin @ 2.5 g per kg of seed and sowing of maize. Continue sowing of bhindi and French bean. Continue planting of ginger and turmeric in Low hills.

Advisories for other crops

- In Sub-Montane and Low Hills Sub-Tropical Zone and Mid Hills Sub Humid Zone, continue sowing of bhindi and French bean. Continue planting of ginger and turmeric in Low hills.
- Continue sowing of fodder maize alongwith cowpeas and soybean in irrigated and rainfed areas. Preferably chari +Bajra crop should be taken.
- In High Hill Temperate Dry Zone, undertake sowing of pea and planting of potato.

Madhya Pradesh

Major advisories for kharif crops

- In Malwa Plateau Zone, continue nursery preparation for kharif vegetables. Undertake deep ploughing of fields and keep inputs ready for sowing of kharif crops.
- In Satpura Zone, undertake land preparation for nursery sowing of kharif onion, cauliflower and for sowing of pigeon pea.
- In Central Narmada Valley Zone, undertake land preparation for planting of turmeric and ginger.
- Rice: recommended varieties are: Very early maturing: Jawahar Dhan (JD) 75, Vandana.
Early maturing: JD 201, JRH-5, JRH-8, Danteshwari, Sahbhagi. Medium duration: MR-219, WGL 32100, IR 36, IR 64, Kranti, Mahamaya, PusaSugandha-3, PusaSugandha-5, Pusa basmati-1, MTU 1010. Long duration: Mahsuri, Swarna

- Soybean: recommended varieties are- Short-duration: JS 93-05, JS 95-60, JS 335, JS 90-4. Medium duration: JS 97-52, JS 20-29, NRC-37, NRC-7, NRC-12.

Advisories for other crops

- Planting of turmeric and ginger in Jhabua Hill Zone.
- Apply irrigation in moong, urad, vegetables, mango, orange and pomegranate orchards in Malwa Plateau Zone.

Chhattisgarh

- Arrange the seeds and prepare nursery for sowing of long duration rice varieties in North Hill Zone.

Advisories for remaining States

- Continuation of harvesting of summer crops in central and North India.

- National AAS Bulletin based on ERFS is also available at http://www.imdagrimet.gov.in/erfsview15