



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast

Valid for 26th June to 9th July, 2015

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Earth System Science Organisation
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Indian Institute of Tropical Meteorology, Pune

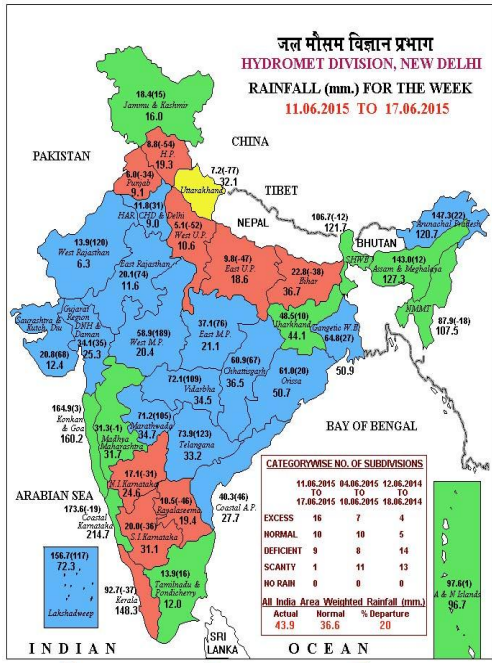
&

Indian Council of Agricultural Research
AICRPAM, CRIDA, Hyderabad

Realized Rainfall

(11th to 24th June 2015)

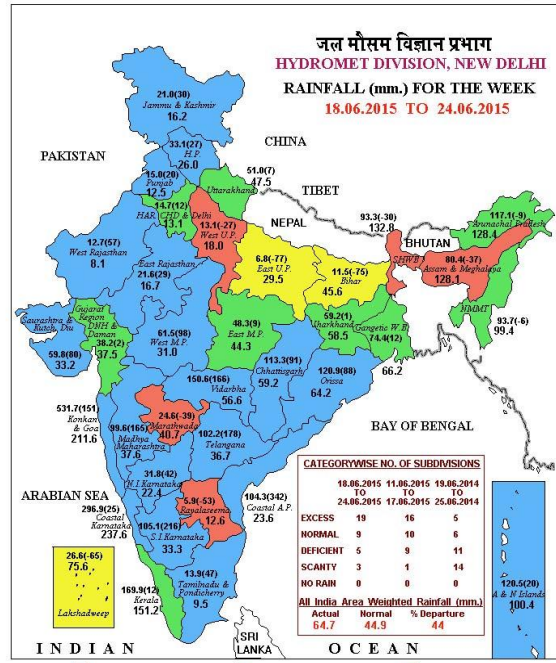
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: ■ EXCESS (+20% OR MORE) ■ NORMAL (+19% TO -19%) ■ DEFICIENT (-20% TO -59%)
■ SCANTY (-60% TO -99%) ■ NO RAIN [-100%] ■ NO DATA

NOTES:
 (a) Rainfall figures are based on operational data.
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

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- Normal or above normal rainfall occurred during last two weeks in Coastal Karnataka, Coastal Andhra Pradesh, Telangana, Tamilnadu, Arunachal Pradesh, Nagaland, Manipur, Mizoram and Tripura, Gangetic West Bengal, Odisha, Jharkhand, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Gujarat, Jammu & Kashmir, Haryana, Delhi and Rajasthan.
- Normal or above normal rainfall occurred in either of the last two weeks in Kerala, Interior Karnataka, Assam & Meghalaya, Sub-Himalayan West Bengal and Sikkim, Marathwada, Punjab, Himachal Pradesh and Uttarakhand.
- Below normal rainfall occurred in the last two weeks over remaining parts of the country.

Extended Range Forecast System

Subdivisionwiserainfal forecast map for the next 2 weeks (IC =24June)

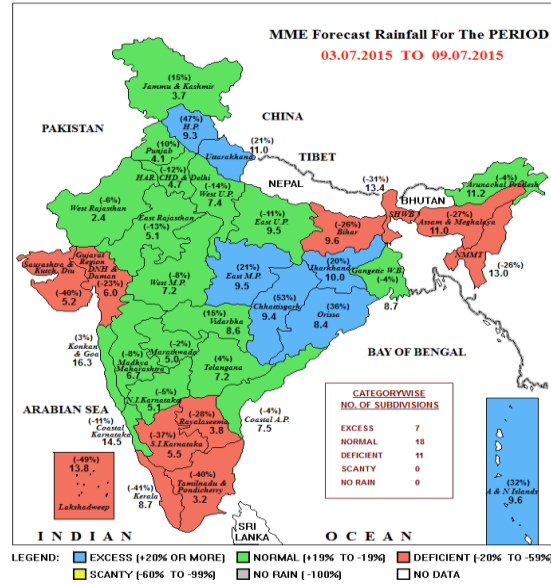
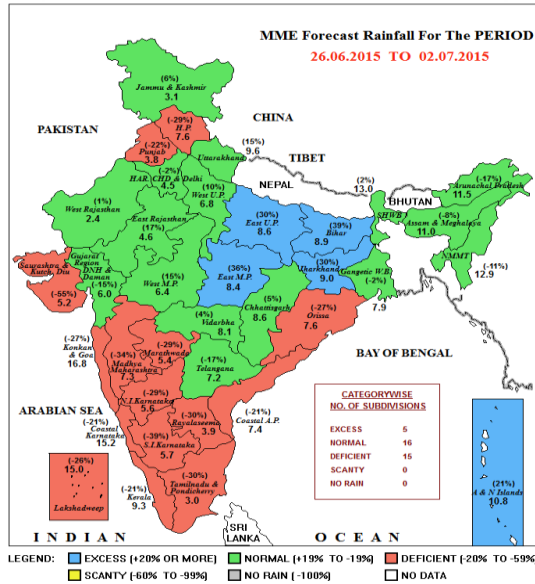
Rainfall forecast (mm/day) (26 June - 9 July, 2015)\

Week 1 (26 June -2 July)

Week 2 (3 July -9 July)

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Notes:

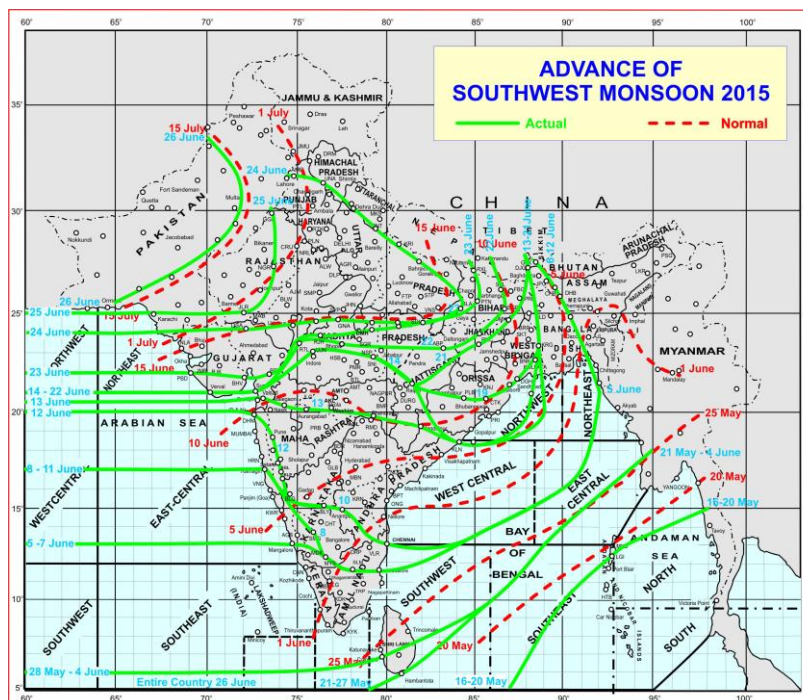
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- (b) Bold figures indicate forecast Normal rainfall (mm/day)
- (c) Percentage Departures of Rainfall are shown in Brackets

Notes:

- (a) Rainfall figures are based on MME forecast
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- (c) Percentage Departures of Rainfall are shown in Brackets

- Normal or above normal rainfall would occur in next fortnight over Jammu & Kashmir, Uttarakhand, Haryana, Delhi, Rajasthan, Uttar Pradesh, Gangetic West Bengal, Arunachal Pradesh, Madhya Pradesh, Chhattisgarh, Jharkhand, Vidarbha and Telangana.
- Normal or above normal rainfall would occur in either of the next two weeks in Konkan and Goa, Coastal Karnataka, North Interior Karnataka, Gujarat region, Punjab, Himachal Pradesh, Odisha, Coastal Andhra Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Sub-Himalayan West Bengal, Sikkim, Madhya Maharashtra, Marathwada and Bihar.
- Below normal rainfall occurred in the last two weeks over remaining parts of the country.

Advance of Southwest Monsoon - 2015



- The Southwest Monsoon has further advanced into remaining parts of West Rajasthan. Thus it has covered the entire country today, the 26th June 2015

Agromet Advisories for land preparation and sowing of *kharif* crops

Good rainfall occurred mainly over the States of southern peninsula, central, northeastern and eastern (except Bihar) regions of the country as well as Konkan and Goa, Madhya Maharashtra, Marathwada, Vidarbha, Gujarat region and Saurashtra and Kutch during last fortnight. Rainfall is also likely to occur over most parts of the country except some of the southern peninsular States during next two weeks. In view of the above, following agricultural activities are suggested for different parts of the country.

Information on seed selection and required inputs like seeds of crops and varieties, sources of seeds etc. can be collected from KVKs, State Departments of Agriculture in the Districts, SAUs, Kisan Call Centre, seed dealers and other NGOs or agencies.

Kerala

- Sowing of upland rice and dry seeding of *virippu* rice; wet seeding of rice variety Uma.
- Transplanting of *virippu* rice. Apply 140 kg lime and 2 tons organic manure for one acre land. Transplant seedlings at 4-5 leaf stage. The roots of the seedlings should be dipped in the solution of *Pseudomonas* culture for 30 minutes to control sheath blight, sheath root, leaf spot disease etc.
- First paddy crop is in tillering stage. Due to intermittent rain there is a chance of leaf folder

and stem borer attack in paddy. To control them, use trichogramma cards @ 2 cc per acre.

- Nursery preparation for rice (Athira and Kanchna) in High Altitude Zone.
- Land preparation and transplanting of rice in Northern Zone.
- Planting of cucurbitaceous vegetables like bitter gourd, snake gourd and bottle gourd.
- Planting of cardamom (High Altitude Zone), pepper, tapioca, coconut saplings, arecanut, banana (Poovan, Robusta and Kannan varieties in Problem Area Zone and Robusta, Palayankodan, Njalipoovan in Southern and Northern Zones), mango, cocoa, turmeric and transplanting of brinjal.
- Planting of new rubber seedlings.
- Pink disease in rubber can be controlled by chiseling out the affected bark and apply Bordeaux paste.
- Inter cropping in coconut gardens.

Karnataka

- Nursery sowing and transplanting of *kharif* rice (Intan, Abhilash, Mugad Siri-1253 and Hemavati for low land, Amrut and Prasanna for upland), direct sowing of rice in uplands, nursery preparation and sowing of ragi, sowing of cotton (DHH-11, NCH-145, NHH-44, DHB-105 and Sahana), maize, planting of ginger and turmeric and transplanting of arecanut seedlings in Coastal Karnataka.
- Nursery sowing of rice, ragi and vegetables, direct sowing of ragi (GPU- 28, MR -01, 02 and 06, KMR-301), sowing of cotton, jowar, maize, pulses *viz.*, cowpea, red gram (TTB -7, BRG -01, BRG- 02, HYD -3C), green gram, black gram, horse gram and oil seed crops like sesamum and groundnut in South Interior Karnataka.
- Pigeonpea: TTB-7, BRG-1 and Hyd-3c @ 15kg/ha and treat the seeds with rhizobium culture @ 500gm/ha before sowing. Spacing of 60 cm x 23 cm is recommended.
- Groundnut: Bunch type of varieties , JL-24 and TMV-2 (Use 125 kg seeds/ha). Recommended spacing is 30cm (Row) x 10 cm (Plant).
- Nursery sowing of rice and ragi, sowing of green gram, black gram, sorghum (Hybrids – CSH-14, CSH-16, CSH-18 and other varieties – CSV-15, DSV-3, DSV-6 and DSV-2) and soybean, red gram, sunflower, maize, Bt. cotton, bajra, sesamum and groundnut and also intercropping like bajra + groundnut (bunch) (2:4), bajra + redgram (2:1), groundnut (bunch) + red gram (3:1 or 4:2), red gram + sesamum (1:2 or 2:4) in light and medium black soils, planting of fruit trees in North Interior Karnataka.
- Animals: Vaccination against Black Quarter and foot & mouth diseases.
- Maintain optimum room temperature in Silkworm and poultry rearing houses.

Andhra Pradesh

Coastal Andhra Pradesh

- Nursery sowing and transplanting of rice (Pushkala, Rasi, IR64).
- Sowing of finger millet, sesame, groundnut, maize, pulses, cotton, black gram and planting of rainfed sugarcane.

Rayalaseema

- Sowing of *kharif* groundnut and rice in Chittoor and Kadapa districts.
- Transplanting of rice in Nellore district.
- Sowing of irrigated cotton, groundnut, castor (PCH-111, PCH-222, Kranti, GCH-4, Haritha), maize, cluster bean and red gram (intercropped with jowar/ bajra @ 1:2 ratio) in Anantpur district.
- Sowing of jowar and Korra (Surya Nandi, Sri Lakshmi, SIA-3085, Krishnadevaraya) in black soil, maize, medium and long duration varieties of turmeric in Kurnool district.
- Sowing of finger millet in High Altitude Tribal Zone.
- Nursery sowing of brinjal.

Telangana

- Nursery sowing of rice, sowing of rainfed crops like cotton (black soil: MCU-5, LRA 5166, Narasimha, NA 1588, hybrids: JKHY 1, ADBHY 1, NHH 44), maize, groundnut (black soil: Kadiri 3, ICGS 44, JL 24, JCS 88, TG 26, Vemana, red soil: JCG 88, Vemana, Kadiri 4, Kadiri 6, ICGS 11, ICGS 44, Abhaya, Prasuna, TAG 24, Kadiri 9, Narayani), jowar (CSH 5, CSH 6, CSH 9, CSH 12, NTJ 4, CSV 216 R, Moti), soybean, pulses like red gram (black soil: ICPL 85063, MRG 66, WRG 27), horse gram (Palem 1, Palem 2), green gram, castor (Aruna, Kranti, Haritha, Kiran, PCH 111, DCH 177) and sesame (Gowri, Madhavi, YLM 11, YLM 17, Chandana, Swetha-Thil, Hima, Rajeshwari) etc.
- Planting of new saplings in the orchards.

Tamil Nadu & Pondicherry

- Transplanting of *kuruvai* rice (ADT 36, ADT 43, ADT 45 and Co 51) in Nagapattinam, Thanjavur, Thiruvavur and Trichy districts and transplanting of rice by SRI technique with irrigation.
- Land preparation for sowing of groundnut and jowar in North Western Zone.
- Sowing of irrigated maize and transplanting of rice in Western Zone.
- Sowing of ragi and tomato in raised bed for nursery seedlings.
- Planting of wetland banana in High Rainfall Zone.

Arunachal Pradesh

- Nursery sowing of normal *kharif* rice.

Assam

- Nursery sowing of *sali/kharif* rice.
- Sowing of medium duration rice varieties Satyaranjan, Bosundhora, T.T.B.-404, Mulagabharu, Kanaklata, Joymoti, IR-36, IR-64 etc. sown within first week of July after receding of flood water.
- If flood water does not recede within June, the following varieties can be opted.
 - Rice varieties Manohar Sali, Biraj, Solpona etc. are recommended for post flood transplanting. Jalashree and Jalkunwari recommended for chronically flood affected areas.

In remaining areas of Assam-

- Nursery sowing of *sali / kharif* rice (Long duration high yielding varieties: Ranjit, Bahadur, Peoli, Moniram, Pankaj, Kushal, Swarna sub-1, Gitesh, Pankaj, Mashuri for growing in typical lowland area, medium duration rice varieties: Satya and Basundhara in medium lowland area).
- Sowing of arhar (T-21).
- Land preparation for transplanting of *sali/kharif* rice.
- Planting of guava, seedlings of papaya in the main field. The recommended varieties are Coorg Honey Dew, Washington, Halflong, Ranchi etc.
- Sowing of groundnut and planting of banana, lemon, pineapple and papaya upto June month.
- Animals: Go for vaccination against Foot & Mouth disease and other bacterial diseases in bovine population (cattle, goat, buffalo etc.).

Meghalaya

- Nursery sowing of *sali / kharif* rice (HYVs like Shabsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1-411 & local varieties like Mendri, Manipuri).
- Transplanting of *kharif* rice. Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting.
- Sowing of soybean (JS 335, Bragg, Ankur, Pusa Soyabean-1, Local JS 2).
- Sowing of groundnut(ICGS 76, JL 24), black gram, green gram and red gram (HYVs like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 & Sarita (long duration)) and planting of ginger and turmeric.

Nagaland

- Nursery sowing for lowland rice (short to medium duration HYV rice: CAU R1, CAU R3, RCM-9 and RCM-1).
- Sowing of maize (DA 61A, RCM-75, RCM-76 and HQPM-1).

Manipur

- Nursery preparation and transplanting of *kharif* rice.
- Sowing of *kharif* maize, *soybean* (JS-335), groundnut (ICGS-76) and black gram.
- Nursery raising of early cauliflower.

Mizoram

- Transplanting of rice, sowing of maize, okra, colocasia and transplanting of brinjal and tomato.
- Nursery preparation and sowing for *khasi* mandarin and passion fruit.
- Land preparation and planting of ginger and turmeric.

Tripura

- Nursery sowing of *aman* rice (Gomati, Ranjeet, Swarna, Naveen).
- Sowing of groundnut (TAG 24, TG 37A, ICGS 76) and maize (DMH- 849, 117, HQPM 1, BQPM 9) in upland and medium upland.
- Planting of banana.

Maharashtra

Konkan

- Land preparation and transplanting of *kharif* rice and finger millet.

- Direct sowing of rice in uplands, finger millet, pulses and vegetables.
- Fishery: Book for fish seed at District Fisheries Department Office.

Madhya Maharashtra

- Land preparation and transplanting of *kharif* rice in Kolhapur region, Western Ghat region (Nashik) and Pune (western parts).
- Direct sowing of rice in Kolhapur region.
- Sowing of *kharif* jowar, bajra and soybean (in Kolhapur region), cotton, green gram, black gram, red gram, groundnut and sunflower.
- *Kharif* jowar: Use recommended varieties like S.P.V. 462, 475, 946, S.S.V. 84, Phuleamruta.
- Bajra: Use Hybrid varieties Shradha (I.H.R.B.H.-8609) Saburi (I.H.I.B.H.-8924) Improved varieties W.C.C.-75, I.C.T.P-8203.
- Sunflower: Recommended varieties are E.C.68414, Modern, S.S.56, K.B.S.H.-11, S.P.S.H.-11.
- Land preparation for planting of *adsali* sugarcane.

Marathwada

- Sowing of *kharif* cotton, soybean, jowar, green gram, black gram, red gram, bajra and sunflower.
- For sowing of *kharif* cotton use space of 4 x 1.5 ft (120 x 45 cm).
- For sowing of *kharif* cotton use seed i.e. 2.5 to 3.0 kg / ha.

Vidarbha

- Land preparation and sowing of *kharif* soybean, cotton, jowar, green gram, red gram and sunflower.
- Nursery sowing and direct sowing of rice in east Vidarbha (Gondia, Bhandara, Gadchiroli and Chandrapur districts).

Gujarat

Gujarat Region

- Sowing of groundnut, cotton, soybean, pulses like black gram (T-9, GU-1), green gram (GM-3, GM-4, K-851), cowpea (Gujarat Cowpea-1, 2, 4, PusaFalguni), pigeon pea (Vaishali, GT-100, GTH-1, BHSR-711), ginger and turmeric in south Gujarat.
- Nursery sowing of *kharif* rice (GNR-2 (Coastal region), GNR-3, 4, Gurjari, NAUR-1, IR-28, Jaya) in South Gujarat.
- Sowing of groundnut and vegetable crops in north Gujarat Zone.
- Sowing of rice, groundnut and pearl millet in Middle Gujarat Zone.
- Sowing of irrigated B.T. cotton.
- Plantation of new orchards like mango, papaya, sapota, lemon and pomegranate.

Saurashtra & Kutch

- Sowing of *kharif* groundnut (semi spreading: GG-20, bunch: GG-2, GG-5, TAG-24, TG-37 A, TPG-41, TLG-45), cotton (GCH-6, GCH-8, Agritop-444, Solar-76, Beejdhan-2, Ajit-155, Mallika, RCH-II, Vikram-5), pulses (green gram, black gram, cowpea, pigeon pea), pearl millet (GHB-558,577,538,719,732,744),sesame (GT-1, GT-2 or GT-3) and fodder sorghum and maize in North Saurashtra Zone.
- Sowing of vegetable crops (lady's finger, cluster bean, kidney bean, cowpea, amranthus, cucurbits), nursery sowing of tomato, chilli, brinjal, early cauliflower and also transplanting of brinjal, chilli and early cauliflower where seedlings are ready in North Saurashtra Zone.
- Sowing of groundnut (GG-20, GG-11), soybean (Gujarat Soybean-1, 2, 3), pigeon pea, cotton

(Bg-II GCH-6, 8, Mallika, Agit, Vikram-5, Uttam, etc.) in south Saurashtra Zone.

- Sowing of groundnut and vegetable crops in Kutch.
- Gap filling and thinning in pre-sown cotton crop in South Saurashtra Zone.
- Harvesting of excess rain water for future use.
- Bunding of fields to conserve rain water.

Madhya Pradesh

West Madhya Pradesh

- Sowing of soybean (JS 9305, JS 9560, RVS 2001-4), maize(JVM 421, JM 12, JM 216), groundnut (TG 22, TG 26, JGN 3.), soybean(early: JS 95-60; medium:JS 93 -05; late- JS 335) , redgram (early: TJT 501, ICPL 87; medium: JKM 189), black gram (JU 86, JU 3, T 9) and green gram (TJM 3, JM 721, HUM 1)and nursery preparation for sowing of *kharif* vegetables like tomato, chili, brinjal and *kharif* onion.
- Sowing of vegetables like okra, cowpea and cucurbitaceous crops.

East Madhya Pradesh

- Nursery sowing and transplanting of rice, sowing of maize, sorghum, soybean, groundnut,redgram, green gram and black gram and nursery sowing and transplanting of *kharif* vegetables like tomato, chilli, brinjal,cauliflower etc.
- Land preparation for sowing of bajra and soybean and nursery preparation for vegetables in Grid Zone of Madhya Pradesh.

Chhattisgarh

- Nursery sowing of rice (Purnima, Danteswari, Shabagi, MTU1010,MTU 1001, Suwarna) and vegetables and sowing of soybean(J.S. 335, Indira Soya-9, J.S. 80-21, J.S. 93-05), maize, groundnut(SB -11 (J 11), ICGS-37, ICGS-44, T.A.G- 24, T.A.G-28), moong, urd,redgram and sesame (T.K.G-21, T.K.G-22, T.K.G-55, T.K.G-8.).
- Recommended rice varieties for blast sensitive regions: Mahsuri, Maheshwari
- Recommended rice variety for blight sensitive regions: Bamleshwari

West Bengal

- Nursery sowing of *aman*rice.
- Complete sowing of wet seeded *aman* rice (medium duration: MTU-7029, MTU1001, Pratiksha; long duration: CR1017, CR1018, CR1019, Sabita) in Coastal Saline Zone.
- In Laterite and Red Soil Zone, sowing of rice in upland.
- In Old Alluvial Zone, sowing of *kharif* rice and vegetables like early cauliflower, brinjal and onion.
- Land preparation and sowing of soybean in Hill Zone.
- Land preparation for plantation of saplings of mango (Himsagar, Mallicka, Langra), guava (Safeda, L-49) and coconut (Eastcoastal, Hazari).

Jharkhand

- In South Eastern Plateau Zone, transplanting of long (140-150 days) duration rice varieties and sowing of direct seeded upland rice, finger millet, maize, pigeon pea, urd bean, moong bean, groundnut, soybean and sesame.
- In South Eastern Plateau Zone, nursery preparation of sweet potato and sowing of rainy season vegetables.
- In North Eastern plateau Zone, nursery bed preparation for rice, planting of ginger, turmeric & elephant foot yam and cultivation of high yielding varieties of maize and sowing of vegetables like long gourd, round gourd, bitter gourd, sponge gourd and cucumber.

- In Western Plateau Zone sowing of upland rice and nursery sowing of the marua rice.
- In Western Plateau Zone sowing and transplanting of vegetables, sowing of maize, urd, groundnut, maize pigeon pea, planting of ginger, turmeric & elephant foot yam and raising of rice nursery.
- Rice: For direct seeding of rice, select short duration varieties like Birsa Dhan - 108, Birsa Vikas Dhan 109 & 110, Vandana etc.
- The recommended inter cropping of this region is as follows: Pigeonpea + Groundnut/Rice/Black gram: Between the 2 rows of Pigeonpea (75 cm between row & 20 - 25 cm between plant) 2 rows of Groundnut /Rice /Black gram. Pigeonpea + Maize : 1 row Pigeonpea and 1 row Maize (75 cm between row).

Odisha

- In East and South Eastern Coastal Plain Zone, nursery sowing of rice, direct seeding of rice in medium low and deep low lands, sowing of cotton, groundnut, castor and arhar in uplands.
- In Mid Central Table Land Zone, line sowing of direct seeded rice in lowlands and nursery raising of rice.
- Select rice varieties maturing at least 10 to 15 days earlier than the recommended rice varieties for medium and low land types. Go for 100-110 days rice varieties such as Sahabhazi, Khandagiri in medium land. Select rice varieties such as Lalat, Prijat, Surendra, Kharavela for medium-low land conditions. Select rice varieties such as Swarna, Mahanadi, Prachi, Ramachandi, Indravati, Jagabandhu and scented varieties like Kalajeera, Pimpudibas, Gangabal for very low and patta land situation.
- Go for SRI method of rice cultivation in irrigated medium lands, for which only 10 to 12 days is required for raising seedlings.
- Vegetables such as cowpea, guar, raddish, bean, cauliflower, lady's finger, chilli, brinjal and tomato can be cultivated.
- In North Eastern Ghat Zone, in upland, sowing of cotton, groundnut, castor and pigeon pea.
- Sowing of *kharif* pulses in upland areas.
- Upland paddy can be grown with very early or early maturing varieties such as Khandagi.

Bihar

North Bihar

- Nursery preparation for *kharif* rice (Low land: Rajshree, Satyam, Rajendra, Mehsooril, MTU 7029 (Swarna), Swarna Sub-1).
- Sowing of *kharif* maize (Suwan, Deevki, Ganga-11, Shaktiman-1 and Shaktiman-2), onion (ADR, N-53, Bhima Super, Arka Kalyan), fodder crops like jowar, bajra and guar.
- Planting of foot yam, ginger and turmeric.
- *Kharif* onion: Agri Found Dark Red (ADR), N-53, Bhima super, Arkakalyan are the recommended varieties. Maintain a seed rate of 8-10 kg per hectare

South Bihar

- Sowing of medium duration rice varieties (Medium land: Sita, Kanak, IR 36, Rajendra, Shweta, Santosh, Shahbhagi, Medium duration (Hybrid): P.H.B. 71, Pusa R.H. 10, K.R.H 2, P.A. 644, Pant Sankardhan for medium land) and fodder crops like jowar, bajra and guar, nursery preparation for *kharif* onion.

Uttar Pradesh

East Uttar Pradesh

- Nursery sowing of long duration varieties and direct sowing of medium duration varieties of rice.
- Land preparation for transplanting of rice.
- Sowing of sunflower, jowar, moong, urad, arhar, groundnut, soybean, maize, bottle guard, cucumber, bitter guard, tinda, ladies finger, lobia and torai.
- Planting of banana and transplanting of brinjal, chilli and cauliflower.
- Planting of sugarcane and nursery raising of *kharif* onion.

West Uttar Pradesh

- Nursery raising of rice.
- Land preparation and sowing of groundnut, soybean, maize, urad, moong, pigeon pea and sesame and fodder crops like sorghum and bajra.
- Paddy :Sowing Medium duration rice such as Narendradhan -359, Malviya dhan-36, Narendradhan -2064, Narendradhan -2026, or Hybrid varieties as Arize -6444, 6201, PHB-71, KRH-2 , PRH-10 and JKRH-401 etc. can be completed
- Maize: Hybrid Ganga-11, Sartaj, HQPM-5, Pro-316, Bio-9681, Y-1402, HQPM-8 and Composite variety Prabhat can be sown with a seed rate of 18-20 kg/ha.

Uttarakhand

- Nursery sowing of rice varieties (Saket-4, Govind, Narendra-80, Pusa 2-21) and scented rice varieties (Pant Sugandh-15, Tarawadi Basmati, Pusa Basmati-1, Type-3, Basmati-370).
- Land preparation and sowing of groundnut, sorghum, pearl millets, pigeon pea, sesame and French bean (VL Rajma-63).
- In Hill Zone of Uttarakhand, transplanting of rice, vegetables like tomato, capsicum and brinjal and sowing of pulses, soybean, direct sowing of palak, methi, coriander, lady finger and French bean.
- In Sub-humid Sub-tropic Zone, nursery sowing of rice and sowing of cotton and bajra.

Himachal Pradesh

- Sowing of maize for fodder purpose along with cowpea and soybean.
- Transplanting of tomato, brinjal, capsicum, cabbage, cauliflower chilli and direct sowing of okra, French bean, cucumber, bitter gourd, summer squash, bottle gourd and ridge gourd in mid hill areas of Sub-Montane and Low Hills Sub-Humid Tropical Zone.
- Transplanting of tomato, cabbage and cauliflower in High Hill Temperate Dry zone.

Jammu & Kashmir:

- In Sub Tropical Zone, sowing of maize and land preparation for transplanting of Basmati rice.
- Sowing of maize and land preparation for sowing of pulses, mash and moong in Intermediate Zone.
- Maize : Cultivars Vivek-25, Vivek QOM-9, HM-5 and HQPM-1 are recommended with a seed rate of 20-30 kg/ha where sufficient soil moisture is available in the field.
- Transplanting of rice and sowing of bhindi and pole type beans in Valley temperate Zone

Punjab

- Transplanting for sowing of rice.
- Sowing of maize.

Haryana

- Sowing of pigeon pea.
- Cultivation of less water requiring varieties of maize, pulses, pearl millets and vegetables.
- Transplanting of tomato and chilli and sowing of desi cotton.

Delhi

- Sowing of long duration rice and early cauliflower.
- Sowing of ladies finger, pigeon-pea, cotton, vegetables like chilli, tomato and brinjal.
- Farmers are advised to cultivate less area under rice. In those areas where irrigation facilities are limited, farmers should cultivate crops like pigeon pea, pearl millet, guar, pulses etc. which require less water.

Rajasthan

- Land preparation and sowing of guar, transplanting of rice in Irrigated Northwestern Plain Zone.
- In Arid Western Plain Zone, land preparation and sowing of irrigated groundnut, pearl millet, pulses, sesamum, green gram, guar and moth bean.
- In Semi Arid Eastern Plain Zone, land preparation and sowing of *kharif* crops like pearl millet, sorghum, maize and cluster bean and cowpea. Nursery raising of tomato.
- In Flood Prone Eastern Plain Zone, land preparation and sowing of sorghum, pearl millet, guar and sesamum.
- In Sub Humid Southern Plain and Aravali Hill Zone, land preparation for sowing of maize, sorghum, groundnut, soybean and transplanting of brinjal, tomato, onion, cauliflower, chilli and papaya.
- Sowing of maize can be undertaken. Recommended varieties are Him - 129, Aravali Makka, PEHM-1, PEHM- 2, Pratap Makka-1, Pratap Makka-3, Pratap Makka-5.
- Sowing of Soybean can also be taken up. Recommended varieties are: JS-335, MACS-13, PK - 472, MACS-58, PS -16, JS - 71 - 05, Pratap Soya-1.