



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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**AICRP on Agro-Meteorology (AICRPAM),
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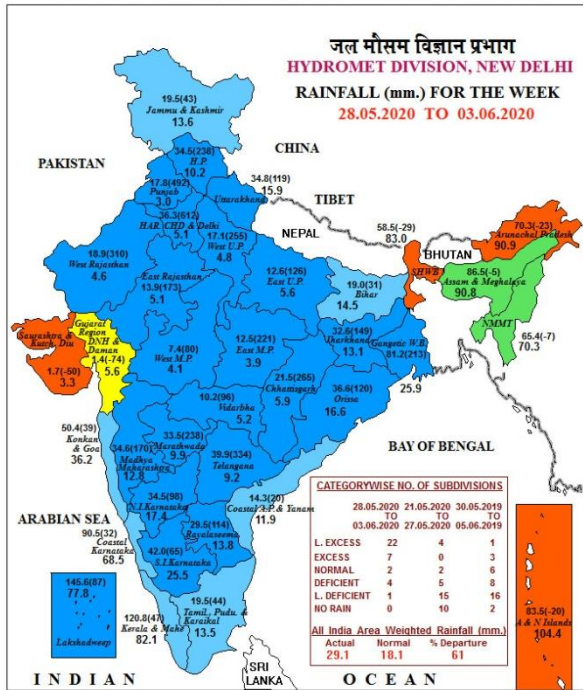
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**India Meteorological Department (IMD)
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (28th May to 10th June, 2020)

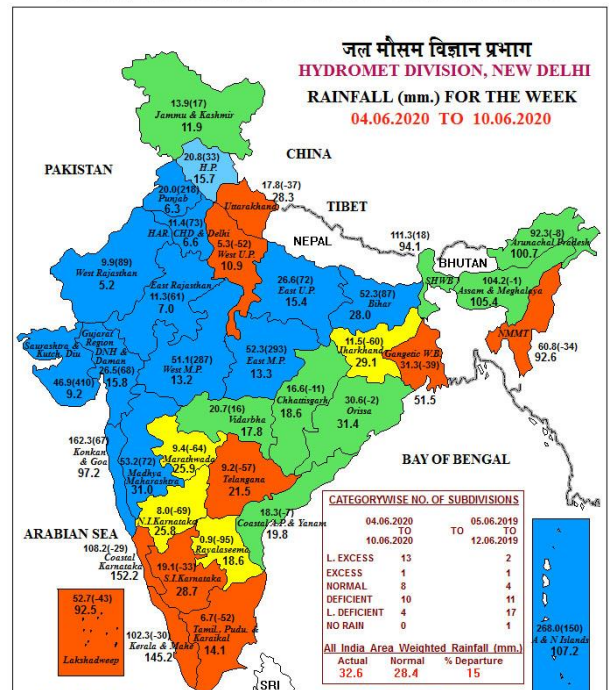
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-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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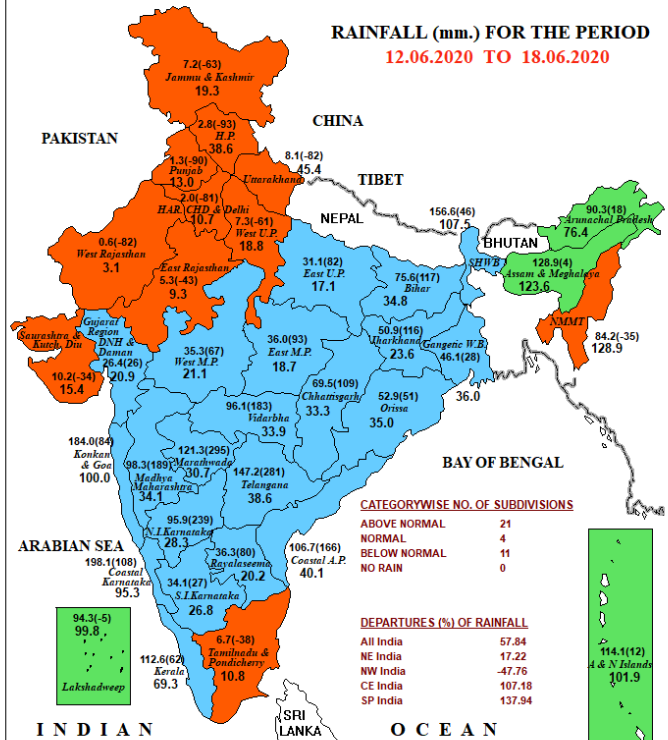
- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Bihar, Odisha, Assam & Meghalaya and Coastal Andhra Pradesh & Yanam.
- Normal or above normal rainfall occurred in either of the weeks in Uttarakhand, West Uttar Pradesh, Jharkhand, Gangetic West Bengal, Sub-Himalayan West Bengal & Sikkim, Gujarat, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura (NMMT), Marathwada, Karnataka, Telangana, Rayalaseema, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal, Andaman & Nicobar Islands and Lakshadweep.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 10 June)
(12th to 25th June, 2020)

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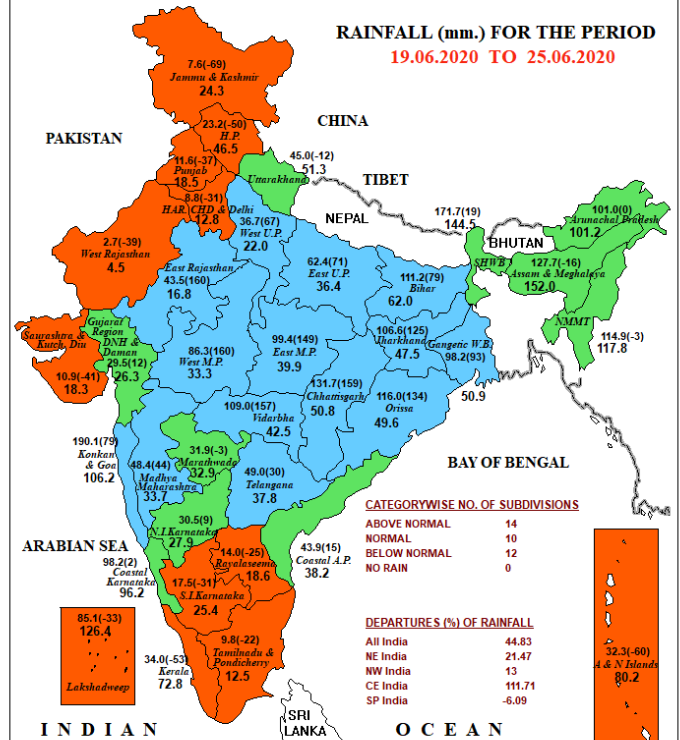
Rainfall Forecast Map - Normal RF Based Categories



NOTES:
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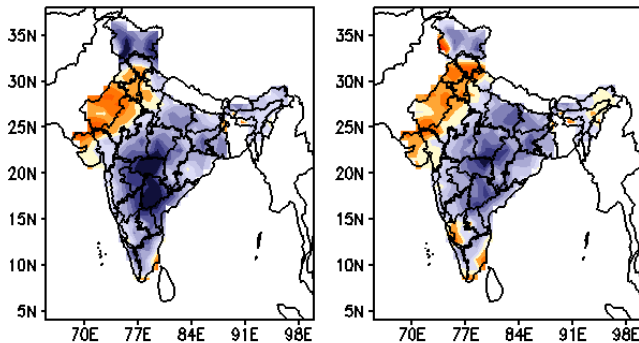
- **Week-1 (12.06.2020 to 18.06.2020):** Monsoon activity over northern parts of south peninsula and adjoining central India will be active along with active monsoon conditions over eastern parts of India. Over the northwest India rainfall will be below normal along with below normal rainfall over Tamil Nadu and adjoining region.
- **Week-2 (19.06.2020 to 25.06.2020):** Central parts of India and adjoining eastern parts of India will be getting above normal rainfall, whereas, over parts of northwest India and south peninsula rainfall will be below normal.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC -10 June)
(12th to 25th June, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 12Jun-18Jun)

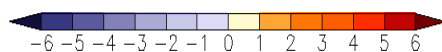
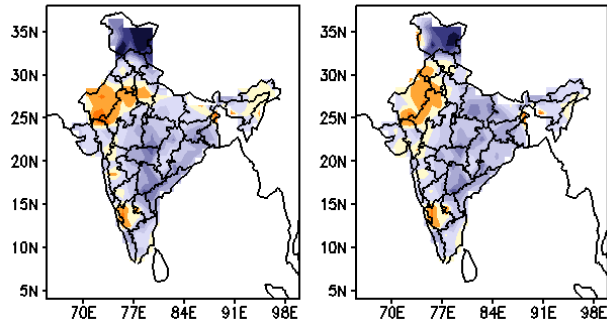
(Week2: 19Jun-25Jun)



MME forecast Tmin anomaly (Deg C)

(Week1: 12Jun-18Jun)

(Week2: 19Jun-25Jun)



Maximum Temperature (Tmax)

- **Week-1 (12.06.2020 to 18.06.2020):** Except some parts of Northwest India, where Tmax will be above normal, over most of remaining parts of India, Tmax will be below normal.
- **Week-2 (19.06.2020 to 25.06.2020):** Pattern in week 2 is almost similar to week 1 with Tmax over Northwest India will be above normal and over remaining parts it will be mainly below normal.

Minimum Temperature (Tmin)

- **Week-1 (12.06.2020 to 18.06.2020) and Week 2 (19.06.2020 to 25.06.2020):** The patterns of Tmin are almost similar to that of Tmax with northwest India indicating above normal Tmin.

Strategic Agricultural Planning based on rainfall during next two weeks till 25 June 2020

Agromet Advisories

Kerala

Amount of rainfall received over Kerala is 200.1 mm (1% excess) during the period of 01 June 2020 - 11 June 2020. The extended range weather forecast for next two weeks (12 - 18 June and 19 - 25 June 2020) is above normal for week-1 and below normal for week-2.

- Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. It is advised to apply of 3g Curzate M-8 or Trichoderma 20 g per /litre of water under the leaves at 15 days interval.
- Due to continuous rain, there is a chance of bud rot disease in coconut palm. It is advised to tie perforated sachets (3 nos.) containing 5 g of Mancozeb at the top crown portion and leaf axil of coconut.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 12.8 mm (-42% deficit) during the period of 01 June 2020 - 11 June 2020. The extended range weather forecast for next two weeks (12 - 18 June and 19 - 25 June 2020) is below normal for week-1 and week-2.

- Due to anticipated weather condition, there is a chance of stem borer incidence in irrigated sorghum. To control, it is advised to apply Phorate 10 G 8 kg/ha or Carbofuran 3 G 17 kg/ha mixed with sand to make up a total quantity of 50 kg/ha and apply on leaf whorls.
- Present prevailing weather condition is favorable for sucking pest in irrigated cotton. It is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 92.4 mm (119% large excess), over Marathwada is 69.7 mm (86% large excess), Vidharbha is 36.8 mm (38% excess) and Konkan region 229.9 mm (68% large excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast for next two weeks (12 - 18 June and 19 - 25 June 2020) over Madhya Maharashtra, Marathwada, Vidharbha and Konkan is above normal for week-1 and above normal over Madhya Maharashtra, Vidharbha and Konkan and normal over Marathwada for week-2.

Madhya Maharashtra

- Farmers are advised to use certified seeds of recommended varieties of various crops for *kharif* sowing.
- Farmers are advised to give alternate furrow irrigation in sugarcane.

Konkan

- There is chance of injury to the bud of coconut plant. So, it is advised to drench the coconut bud

with 1% Bordonmixture or Chlorpyriphos 20% EC @ 2ml/ litre of water.

- Due to heavy rain and high wind condition, it is advised to provide proper support with available resources to young seedlings of arecanut.

Vidharbha

- Under prevailing rainy weather conditions, it is advised to provide mechanical support to young fruit plants and staking in vegetables to prevent lodging.
- Farmers are advised to start the land preparation for nursery sowing of *kharif* rice in Eastern Vidharbha Zone.

Hisar

Amount of rainfall received over Hisar is 13.6 mm (616% large excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Hisar is above normal for week-1 and week-2.

- Under prevailing dry weather condition, farmers are advised to apply irrigation in vegetable crops and fruits.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crops.
- For the management of desert locust, farmers are advised to spray Bendiocarb 80% WP @100 g/ha or Diflubenzuron 2.8% EC and 1.2% ULV @ 12.5 g/ha or Fipronil 5% SC and 2.9% EC @ 6.2 g/ha or Malathion 50% EC and 25% WP and 96% ULV @ 926 g/ha.

Karnataka

Rainfall received during 01 June 2020 - 11 June 2020 over South Interior Karnataka is 47 mm (5% excess) and North Interior Karnataka is 50.1 mm (36% excess). The extended range weather forecast for next two weeks (12 - 18 June and 19 - 25 June 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and below normal over South Interior Karnataka and normal over North Interior Karnataka week-2.

South Interior Karnataka

- Farmers are advised for pruning of dried twigs and branches in mango to facilitate the sunlight to bear more fruits in next season.
- Farmers are advised for summer ploughing, apply tank silt and FYM in fields to increase fertility, moisture holding capacity and improvement in soil micro flora.

North Interior Karnataka

- Under prevailing rainy weather condition, sowing of the *kharif* crops like greengram, redgram, bajra, navane and groundnut (bunch type), castor, onion, chilli are recommended.
- Farmers are also advised to prepare soil and water conservation structures in the fields to conserve rain water.

- Farmers are advised to vaccinate livestock against foot and mouth disease (FMD vaccination), black quarter disease (BC vaccination) and haemorrhagic septicaemia.

Assam

Amount of rainfall received over Assam is 174.9 mm (9% excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Assam is normal for week-1 and week-2.

- Under prevailing heavy rainfall condition, farmers are advised to go for planting of fodder crops like hybrid napier with varieties viz., NB 21, IGFRI-6, CO-2, Dinanath with varieties JP-12, Pusa 3 and Pusa 19, Setaria with varieties Kazungula, Nandi and PSS-1 etc.
- Due to cloudy and rainy weather condition, there is a chance of infestation of early shoot borer in sugarcane crop. To control, proper earthing up at the base followed by burying or burning of the infested canes is advised. If infestation is above ETL, spray of Phosphamidon @ 60-70ml per 120 litre of water/ bigha land in fair weather condition is advised.

Jharkhand

Amount of rainfall received over Jharkhand is 28.3 mm (-30% deficit) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Jharkhand is above normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to complete the threshing and storage of harvested summer rice during clear weather.
- Under assured irrigation facility, farmers may go for raising rice seedlings in nursery.

Uttar Pradesh

Rainfall received during 01 June 2020 - 11 June 2020 over East Uttar Pradesh is 30.0 mm (49% excess) and West Uttar Pradesh is 10.3 mm (-28% deficit). The extended range weather forecast for next two weeks (12 - 18 June and 19 - 25 June 2020) over East Uttar Pradesh above normal and West Uttar Pradesh is below normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

- Due to rainy weather condition, farmers are advised to raise the nursery for medium duration rice with recommended varieties viz., Narendra dhan-359, Malviya dhan-36, Narendra dhan-2064, Narendra dhan-2026 or Hybrid varieties viz., Arize -6444, 6201, PHB-71, KRH-2, PRH-10 and JKRH-401.
- Sowing of early maturing pigeon pea (Paras, UPAS-120, Type-21 and Pusa-992) is also advised.

Odisha

Amount of rainfall received over Odisha is 52.6 mm (16% excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020)

on rainfall over Odisha is above normal for week-1 and week-2.

- Under prevailing rainy weather condition, sowing of ragi in nursery is advised with varieties Divyasingh, AKP-2, AKP-3, AKP-7, Godavari, Neelachal, Bhairavi, Shubhra, and Chilika.
- It is the optimum time for sowing of pigeon pea with varieties Prabhat, Upas-120, ICPL-86012, ICPL-87, TA-21, Asha, Visakha, C-11, D-11, Pusa-9 & Bahar.

West Bengal

Amount of rainfall received over West Bengal is 60.5 mm (-14% deficit) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over West Bengal is above normal for week-1 and week-2.

- In the prevailing weather situation, there is a chance of attack of fruit borer in mango. It is advised to spray Dichlorovos @ 1.5 - 2.0 ml per litre of water.
- There is also a chance of severe attack of jute semilooper, bihar hairy caterpillar and stem weevil in jute. To control, it is advised to apply Diclorovos @ 3 ml/4 litre of water or Endosulphan 2 ml/litre of water.

Bihar

Amount of rainfall received over Bihar is 57.1 mm (53% excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Bihar is above normal for week-1 and week-2.

- Because of rainy weather condition, farmers are advised to start the sowing of paddy in nurseries.
- Farmers are advised to harvest matured pods of early sown black gram/ green gram. Regular monitoring should be done in late sown green gram/black gram against infestation of pod borer.
- Sowing of *kharif* maize is advised with varieties Shaktiman 1, Shaktiman 2, Shaktiman 3, Shaktiman 4, Shaktiman 5, Rajendra Shankar makka 3 and Suwan and Deoki.

Punjab

Amount of rainfall received over Punjab is 27.2 mm (180% large excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Punjab is below normal for week-1 and week-2.

- Due to prevailing hot weather condition, farmers are advised to irrigate sugarcane crop at 8 to 10 days interval.
- Under prevailing weather condition, farmers are advised to complete direct sowing of rice.

Gujarat

Amount of rainfall received over Gujarat is 39.8 mm (85% large excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Gujarat is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, sowing of *kharif* paddy in nursery seedbed is advised with

varieties NAUR1, GNR-2 (Costal area) GNR-3, GNR-4, GNR-5, GNR6,7, GR-16,17 (Long duration), Jaya, Gurjari, GR-5, 7, 8, 9, IR-28, Purna, Mahisagar and GAR-13.

- For the control of shoot and fruit borer of brinjal, farmers are advised to apply Chlorpyrifos 20 EC @ 20 ml or Emamectin Benzoate 5 SP @ 3 g or Chlorantraniliprole 18.5 SC @ 3 ml or Cypermethrin 10 EC @ 10 ml or Lambda cyhalothrin 5 EC @ 5 ml/10 litre of water.
- Farmers are advised to keep the animals in the shade during noon hours and provide cool drinking water frequently at regular interval.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 61.4 mm (218% large excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- In case of heavy rainfall areas, farmers are advised to drain out excess water from crop fields and newly planted fruit seedlings.
- Monitoring of insect pest and pest management practices against pod borers in okra, tomato, egg plant and chilli is also advised.

Jammu

Amount of rainfall received over Jammu is 21.9 mm (6% excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to rise in temperature, farmers are advised to protect young fruit plants from excess heat by providing thatches and cover.
- Under prevailing weather condition, farmers are advised to start land preparation for the timely sowing of maize crop in Kandi belt under sub-tropical conditions of Jammu.
- Under prevailing hot weather, it is advised to sprinkle water in animal sheds to reduce heat stress and provide adequate amount of fresh cool and clean drinking water to the animals at frequent intervals.

Rajasthan

Amount of rainfall received over Rajasthan is 20.4 mm (87% large excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 June - 18 June and 19 - 25 June 2020) on rainfall over Rajasthan is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to sow *kharif* maize and bajra. Recommended improved varieties of maize are Pratap QPM-1, HQPM-1, HQPM-5, PEHM-2 and Pratap hybrid maize-1, Pratap Makka-9, Pratap hybrid Makka-3 and improved varieties of bajra are HHB-67, Raj-171, ICMH-356, RHB-121, RHB-173, RHB-154 & 177.
- Farmers are advised to do deep ploughing and make bunds around the fields to conserve rain water.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 32.3 mm (14% excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Andhra Pradesh is above normal for week-1 and below normal for week-2.

- Farmers are advised to continue sowing of rice in nursery in North Coastal AP, Godavari zones, Krishna district and under assured irrigation in Guntur, Prakasam, Kurnool, Nellore districts.
- Under assured irrigation, farmers of southern zone are also advised for sowing of groundnut. Recommended high yielding varieties viz., Dharani, Kadiri Amaravathi, Kadiri Chitravathi, Narayani, K6, Kadiri Harithandra, Greeshma.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 34.4 mm (24% excess) during 01 June 2020 - 11 June 2020. The extended range weather forecast provided for next two weeks (12 - 18 June and 19 - 25 June 2020) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Farmers are advised to go for land preparation for sowing of soybean, maize, groundnut crops.
- Under assured irrigation facilities, farmers are advised to go for preparing rice nursery.

Disclaimer:

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