



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 03 July - 16 July 2020

Date of issue: 03 July 2020

Issued by

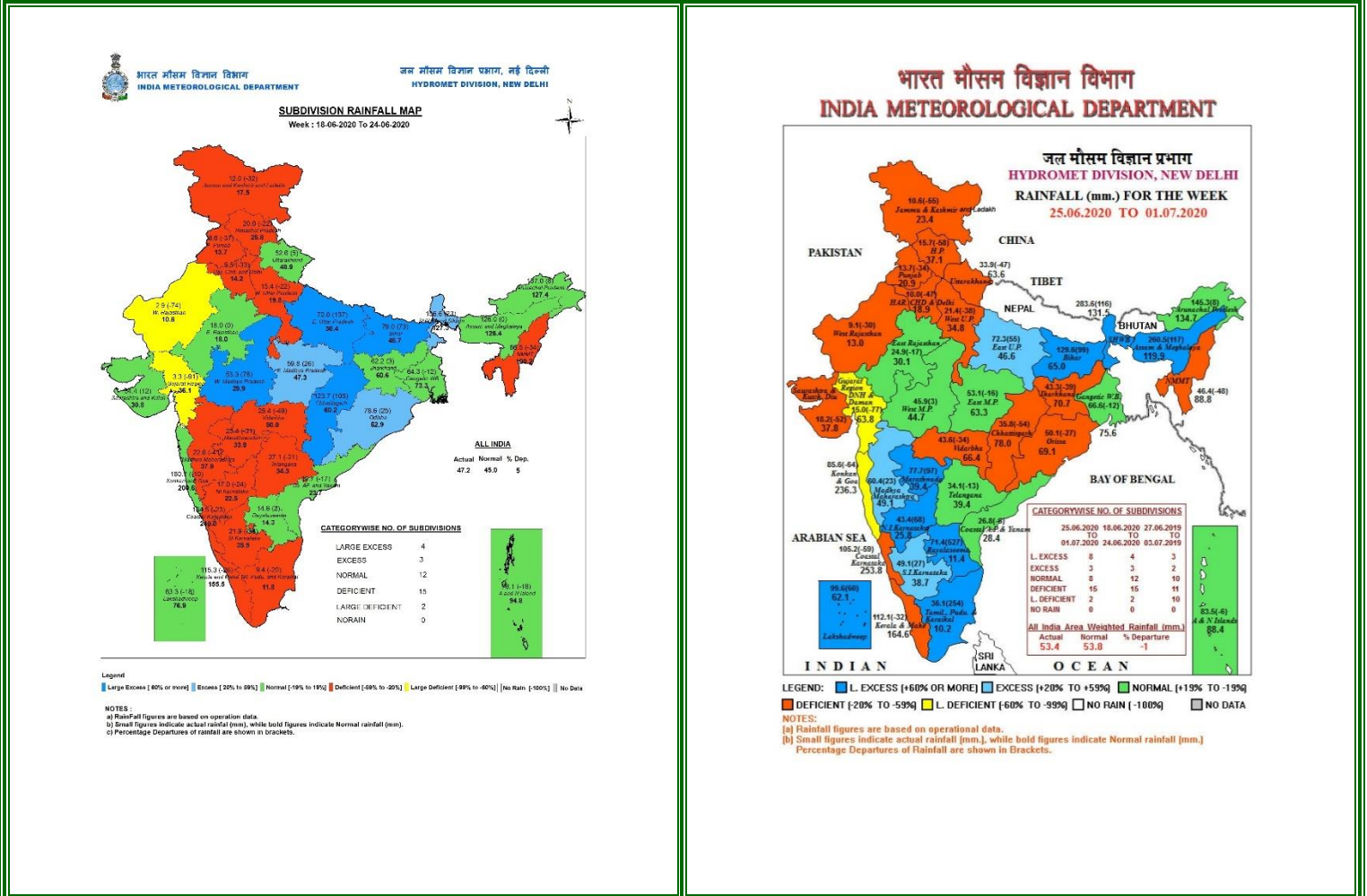
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

**India Meteorological Department (IMD)
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (18th June to 1st July, 2020)



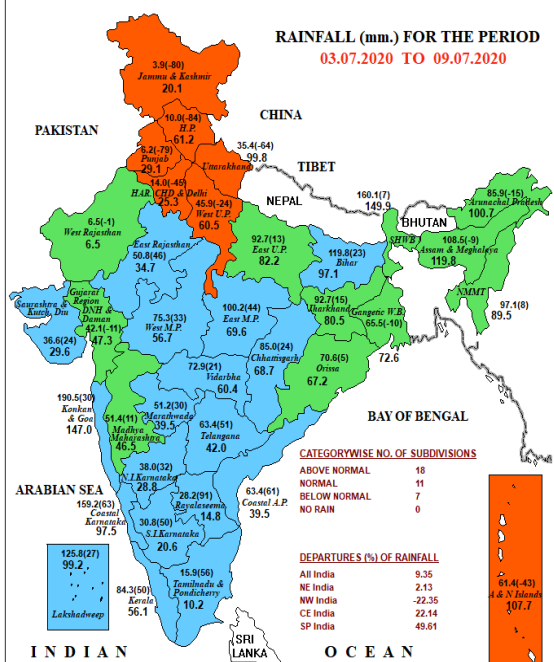
- Normal or above normal rainfall occurred in both the weeks in East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Lakshadweep and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the weeks in Uttarakhand, Saurashtra & Kutch, Chhattisgarh, Jharkhand, Odisha, Konkan & Goa, Madhya Maharashtra, Marathwada, Interior Karnataka, Telangana and Tamil Nadu Puducherry & Karaikal.
- Below Normal rainfall occurred in both the weeks in Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Gujarat Region, Vidarbha, Nagaland, Manipur, Mizoram & Tripura (NMMT), Coastal Karnataka and Kerala & Mahe.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 01 July) (3rd to 16th July, 2020)

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Rainfall Forecast Map - Normal RF Based Categories

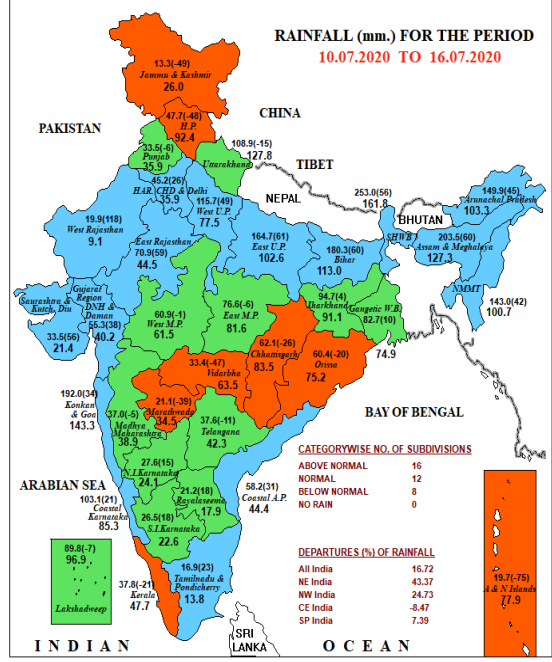


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

NOTES:
 (a) Rainfall figures are based on MME Forecast 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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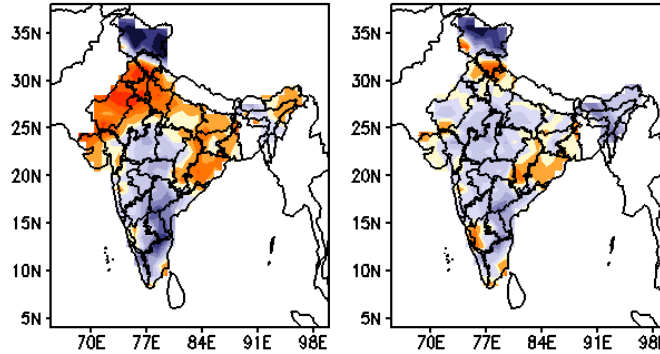
- **Week-1 (03.07.2020 to 09.07.2020):** On all India scale monsoon rainfall will be normal to slightly above normal with west-coast and other central parts of India will have positive departure.
- **Week-2 (10.07.2020 to 16.07.2020):** Rainfall over Uttar Pradesh, Bihar and North-eastern states is likely to increase.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC -01 July)
(3rd to 16th July, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 03Jul-09Jul)

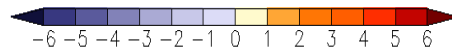
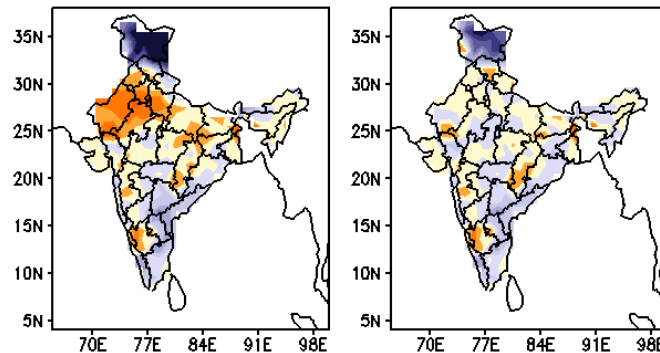
(Week2: 10Jul-16Jul)



MME forecast Tmin anomaly (Deg C)

(Week1: 03Jul-09Jul)

(Week2: 10Jul-16Jul)



Maximum Temperature (Tmax)

- **Week-1 (03.07.2020 to 09.07.2020):** Northwest India, Indo-Gangetic plains & adjoining Northeast India will have above normal Tmax, whereas, over the central India it is expected to be below normal.
- **Week-2 (10.07.2020 to 16.07.2020):** Except some parts of eastern coastal region Tmax likely to be mainly below normal.

Minimum Temperature (Tmin)

- **Week-1 (03.07.2020 to 09.07.2020) and Week 2 (10.07.2020 to 16.07.2020):** Northwest India, Indo-Gangetic plains & adjoining Northeast India will have normal to slightly above normal Tmin, whereas, over the south-eastern coastal belt it is expected to be below normal.

Strategic Agricultural Planning based on rainfall during next two weeks till 16 July 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 547.1 mm (-22% deficit) during the period of 01 June 2020 - 02 July 2020. The extended range weather forecast for next two weeks (03 - 09 July and 10 - 16 July 2020) is above normal for week-1 and below normal for week-2.

- Due to high relative humidity, there is a severe attack of leaf rust disease in coffee. It is advised to spray Oxycarboxin (Plant vax 20 EC) @ 1 ml/litre or spray Bordeaux mixture (1%).
- Due to increased rainfall, there is a chance of rhizome rot in banana. As a precaution, pour 3 litre of Pseudomonas solution (20g /litre) at the basin.
- Under prevailing weather, there is a chance of azhukal/ capsule rot disease in cardamom. It is advised to spray Bordeaux mixture (1%) and drench the plant basins with Copper oxychloride (0.2%).

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 63.3 mm (11% excess) during the period of 01 June 2020 - 02 July 2020. The extended range weather forecast for next two weeks (03 - 09 July and 10 - 16 July 2020) is above normal for week-1 and week-2.

- Present prevailing weather condition is favorable for Tristeza virus disease in citrus. It is advised to spray Streptomycin sulphate 500-1000 ppm or Phytomycin 2500 ppm or Copper oxychloride 0.2% at fortnight intervals.
- Present prevailing weather condition is favorable for bollworm incidence in cotton. It is advised to spray Phosalone 35% EC 2000 ml/ha or Triazophos 40 EC 2.5litre/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 243.0 mm (41% excess), over Marathwada is 233.2 mm (57% excess), Vidharbha is 182.5 mm (-3% deficit) and Konkan region 762.0 mm (-1% deficit) during 01 June 2020 - 02 July 2020. The extended range weather forecast for next two weeks (03 - 09 July and 10 - 16 July 2020) over Madhya Maharashtra is normal and Vidharbha, Marathwada and Konkan are above normal for week-1 and above normal over Konkan, normal over Madhya Maharashtra and below normal over Marathwada and Vidharbha for week-2.

Madhya Maharashtra

- Under rainfall deficit condition, it is advised to irrigate sugarcane crop with alternate furrow system.
- For prevention against wilt and root rot disease in pigeon pea, green gram, black gram, cowpea, soybean, sunflower crops, farmers are advised to treat the seeds with Trichoderma @ 5g/kg seed before sowing.

Konkan

- Due to increase in humidity, there is possibility of incidence of koleroga disease in arecanut orchard. To prevent, it is advised to spray 1% Bordomixture mix with sticker on to crown region during no rainfall condition.

- For control of leaf drop in cashewnut, spray 0.2% Mancozeb @ 20 ml per 10 litre of water on entire tree.

Vidharbha

- Under prevailing weather condition, nursery seed sowing for *kharif* vegetables like chilli, tomato, brinjal etc. is advised.
- Sowing of *kharif* cotton is recommended with deshi varieties viz., AKA-5, AKA-7, AKA-8 and American improved varieties viz., AKH-081, AKH-09-5, PKV Rajat and AKH 8828.

Marathwada

- Due to rainy weather condition, it is advised to drain out excess amount of water from grape, banana, custard apple and mango orchards.

Hisar

Amount of rainfall received over Hisar is 48.1 mm (10% deficit) during 01 June 2020 - 02 July 2020. The extended range rainfall forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) over Hisar is below normal for week-1 and above normal for week-2.

- If dry weather persists, farmers may apply irrigation in vegetable and fruits crops.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crops.
- Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep animals healthy.

Karnataka

Rainfall received during 01 June 2020 - 02 July 2020 over South Interior Karnataka is 150.0 mm (-5% deficit) and North Interior Karnataka is 145.5 mm (27% excess). The extended range weather forecast for next two weeks (03 - 09 July and 10 - 16 July 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and normal for 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 may go for sowing of red gram as long duration mono crop with varieties TTB-7, BRG1, 2, 4 & 5, castor with varieties DCS-9 (Jyothi), DCH-177&32, maize with varieties Ganga-11, Deccan -103, Vijaya composite, Composite NAC-6004, 6002, hybrid-Nityashree (NAH-2049).
- Farmers are advised to vaccinate cows against the Black quarter disease.

North Interior Karnataka

- Under prevailing rainy weather condition, sowing of *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 675.1 mm (25% excess) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Assam is normal for week-1 and above normal for week-2.

- Due to rainy weather, maintain proper drainage facility to avoid water stagnation in the rice nursery beds.
- Farmers are advised to vaccinate livestock against foot and mouth disease of cattle (FMD vaccination).

Uttar Pradesh

Rainfall received during 01 June 2020 - 02 July 2020 over East Uttar Pradesh is 206.6 mm (72% large excess) and West Uttar Pradesh is 52.7 mm (-38% deficit). The extended range weather forecast for next two weeks (03 - 09 July and 10 - 16 July 2020) over East Uttar Pradesh is 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.

- Farmers are advised for sowing of *kharif* maize with recommended varieties viz., hybrid Dakan-107, Malveya-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113 and composite varieties are Novjoti, Pusa-2, Prabhat and Azad uttam.
- Under prevailing weather condition, there is a chance of downy mildew in vegetables. Farmers are advised to spray Mancozeb @ 2g/ litre of water.
- During thunderstorms, farmers should not go to fields to avoid lightning related casualties.

Odisha

Amount of rainfall received over Odisha is 261.0 mm (11% excess) during 01 June 2020 - 02 July 2020. The extended range rainfall forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) over Odisha is normal for week-1 and below normal for week-2.

- Under prevailing rainy weather, sowing of ragi in nursery is advised with varieties Divyasingh, AKP-2, AKP-3, AKP-7, Godavari, Neelachal, Bhairavi, Shubhra, and Chilika.
- Sowing of groundnut is also advised with recommended varieties Devi (ICGV-91114), Kadri-6, Kadri- 9, TG-37A, TAG-51, TAG-38, TAG-24, Smruti, CO-7, Dharani etc.

West Bengal

Amount of rainfall received over West Bengal is 285.2 mm (3% excess) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over West Bengal is normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of attack of red pumpkin beetle in pumpkin, ridge-gourd, pointed gourd and cucumber. To control, spray of Dimecron or Rogor@ 1ml per litre of water is advised.
- Under prevalent weather situation, there is a chance of the attack of weevil in jute. It is advised

to apply Endosulphan @ 2 ml/litre of water.

Bihar

Amount of rainfall received over Bihar is 316.7 mm (66% large excess) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Bihar is above normal for week-1 and week-2.

- It is advised to complete the nursery sowing of paddy. Recommended early varieties for North Bihar viz., Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati.
- Land preparation is advised for sowing of pigeon pea in upland areas. Recommended varieties for North Bihar are Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13.

Gujarat

Amount of rainfall received over Gujarat is 111.6 mm (-30% deficit) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Gujarat is normal for week-1 and above normal for week-2.

- Sowing of soybean is advised, with recommended varieties viz., JS-335, NRC 37, NRC 2, Guj Soybean 1, Guj Soybean 2.
- Under prevailing weather condition, it is advised to pick the matured vegetables and rogue out virus infected plants from crop field.

Jammu

Amount of rainfall received over Jammu is 48.6 mm (-41% deficit) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to rainy weather condition, transplanting of chilli, tomato & brinjal from nursery to field area is advised.
- To prevent cracking in citrus fruit, spray of Zinc sulphate or Boron is advised.

Rajasthan

Amount of rainfall received over Rajasthan is 77.4 mm (1% excess) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Rajasthan is above normal for week-1 and week-2.

- Under prevailing weather condition, farmers of southern parts are advised to sow maize and soybean. Recommended 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 varieties of soybean are Pratap soya-1, Pratap Raj soya- 24, NRC-37, RKS-45, RKS-18.
- Farmers of Western parts are advised to sow bajra and moth. Improved varieties of bajra are HHB-67, Raj-171, ICMH-356, RHB-121, RHB-173, RHB-154 &177 and moth are RMO-257,

RMO-225, RMO-425, RMO-423, RMO-40.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 134.4 mm (81% large excess) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Andhra Pradesh is above normal for week-1 and normal for week-2.

- Due to heavy rainfall condition, farmers of Coastal AP and Rayalaseema are advised for sowing of rainfed crops like jowar, redgram, greengram, blackgram, foxtail millet, pearl millet, maize, ragi, minor millets, castor.
- Farmers are advised to continue sowing of rice in nursery and transplanting in North Coastal AP, Godavari zones, Krishna zone, Kurnool, Nellore districts.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 71.0 mm (-35% deficit) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- It is advised to maintain room temperature of 18-22°C and relative humidity around 85% for successful cultivation of mushrooms.
- Under prevailing weather condition, there is a chance of ecto-parasite attack in dairy animal. To control, spray of Butox @ 2ml per litre in cowshed is advised.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 293.3 mm (36% excess) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Chhattisgarh is above normal for week-1 and below normal for week-2.

- Under prevailing rainy weather condition, farmers are advised to complete the sowing of *kharif* crops like rice, soybean, arhar, sesamum, maize, urad, moong and groundnut.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 229.6 mm (43% excess) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Madhya Pradesh is above normal for week-1 and normal for week-2.

- Under prevailing rainy weather condition, sowing of rice seeds in nursery bed in irrigated areas of East Madhya Pradesh is advised.
- Monitoring of insect pest in vegetable fields should be done regularly and also rogue out mosaic infected plants in okra and brinjal.

Uttarakhand

Amount of rainfall received over Uttarakhand is 158.0 mm (-19% deficit) during 01 June 2020 - 02 July 2020. The extended range weather forecast provided for next two weeks (03 - 09 July and 10 - 16 July 2020) on rainfall over Uttarakhand is below normal for week-1 and normal for week-2.

- It is advised to continue the transplanting of brinjal, tomato, capsicum, chilli, cucurbits crops and use pheromone traps/ light traps/ yellow strips in the field for control of pest infestation.
- Under rainy weather condition, farmers must arrange to drain out excess rain water from vegetable fields.

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