



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन National Agromet Advisory Services Bulletin

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आधारित/ based on

विस्तारित अवधि मौसम पूर्वानुमान/ Extended Range Weather Forecast (ERFS)

वैधता/ Validity: 21 July - 03 August 2023

जारीकर्ता/ Issued by

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

AICRP on Agro-Meteorology (AICRPAM)

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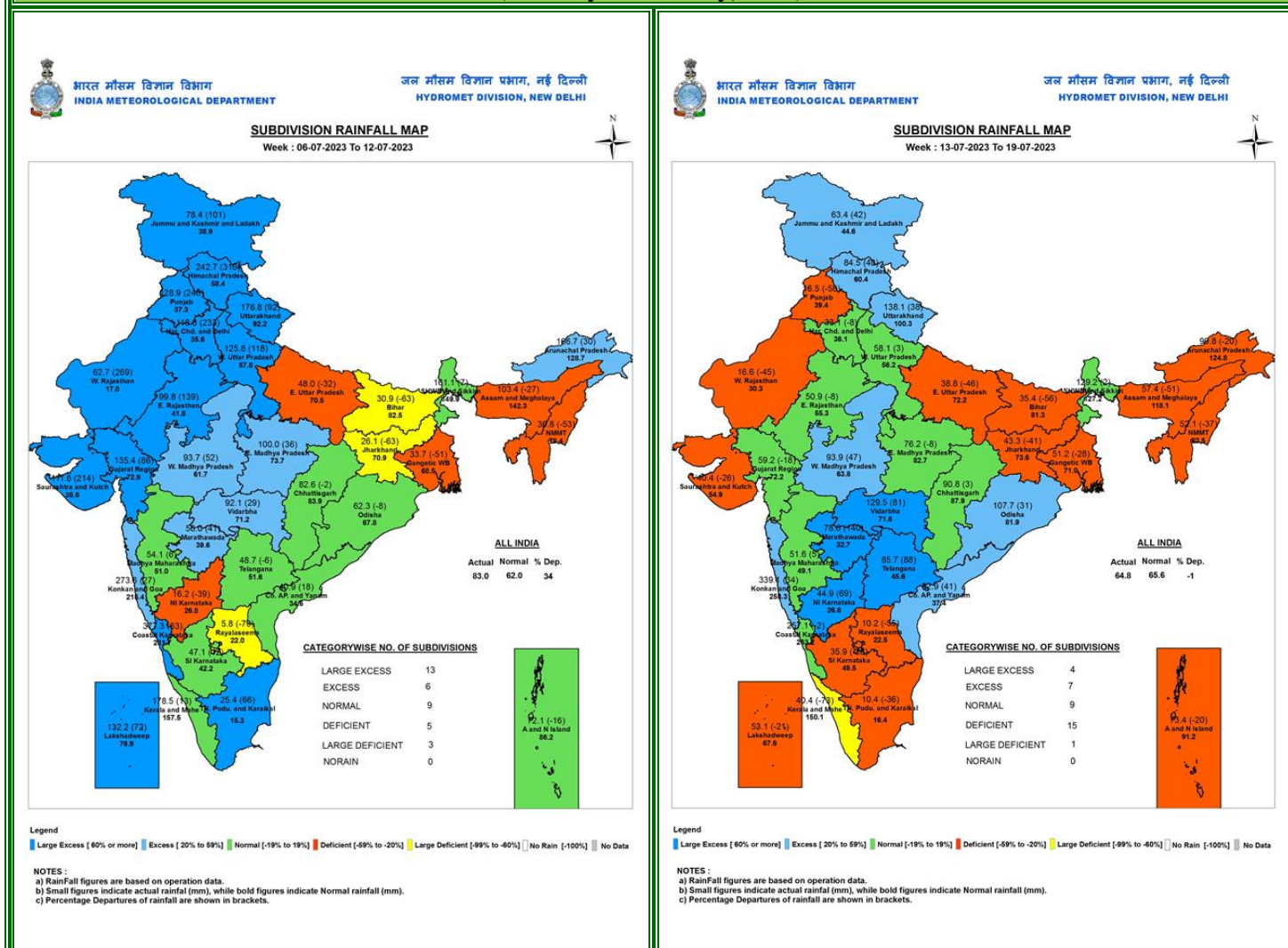
पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall

(06th July to 19th July, 2023)

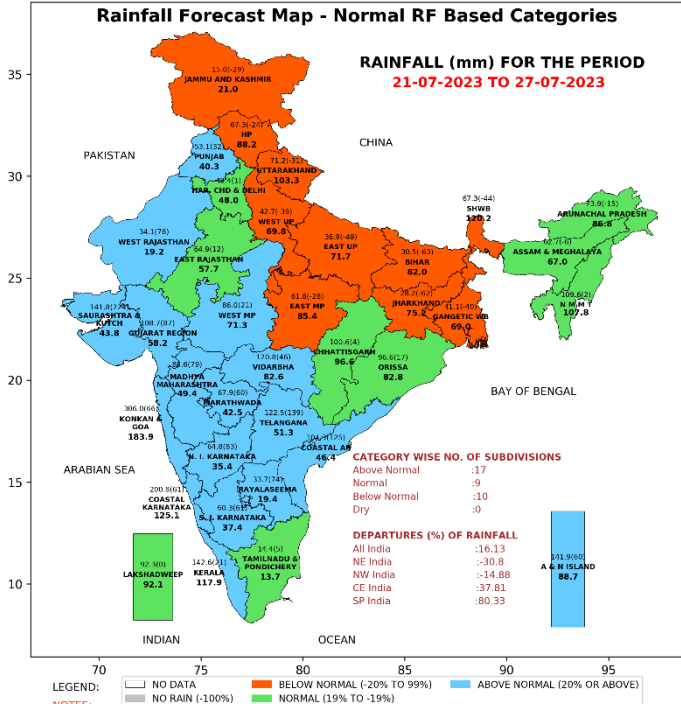


- Normal or above normal rainfall occurred in both the weeks over Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Haryana Chandigarh & Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, East Rajasthan, Madhya Pradesh, Chhattisgarh, Odisha, Gujarat Region, Maharashtra, Telangana,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

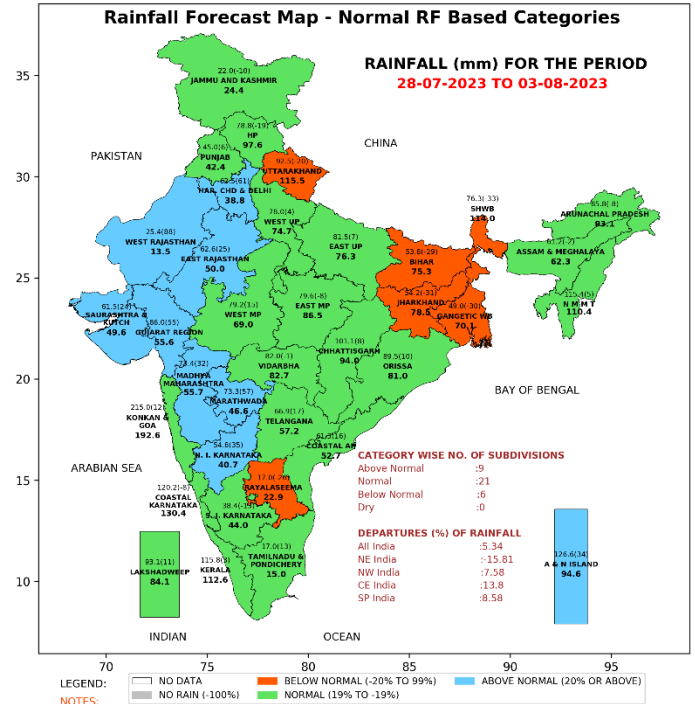
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 19th July) (21st July to 03rd August, 2023)

INDIA METEOROLOGICAL DEPARTMENT Rainfall Forecast Map - Normal RF Based Categories



INDIA METEOROLOGICAL DEPARTMENT Rainfall Forecast Map - Normal RF Based Categories



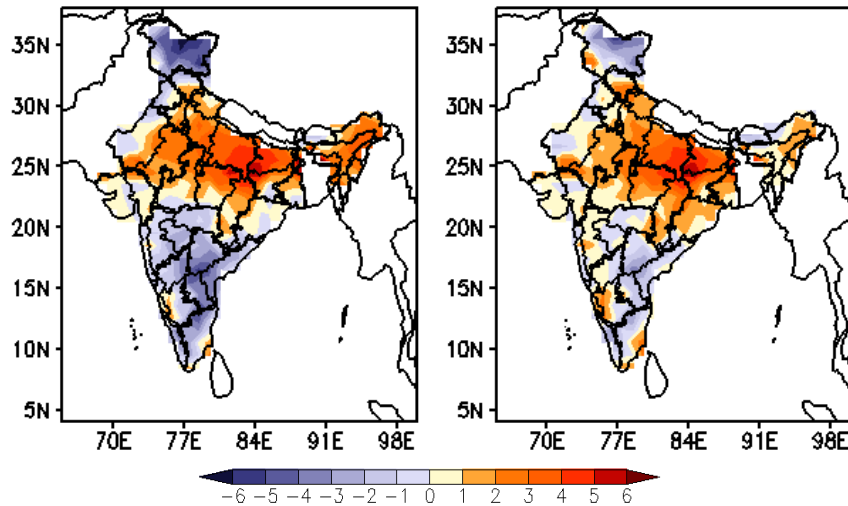
- Week 1 (21.07.2023 to 27.07.2023):** Rainfall is likely to be above normal over many parts of the country and below normal over Indo-Gangetic plains and East India. Intense rainfall activity is likely over west coast.
- Week 2 (28.07.2023 to 03.08.2023):** Rainfall is likely to be normal to above normal over most parts of country. However, it is likely to be below normal over parts of East India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 19th July)
(21st July to 03rd August, 2023)**

MME forecast Tmax anomaly (Deg C)

(Week1: 21Jul–27Jul)

(Week2: 28Jul–03Aug)



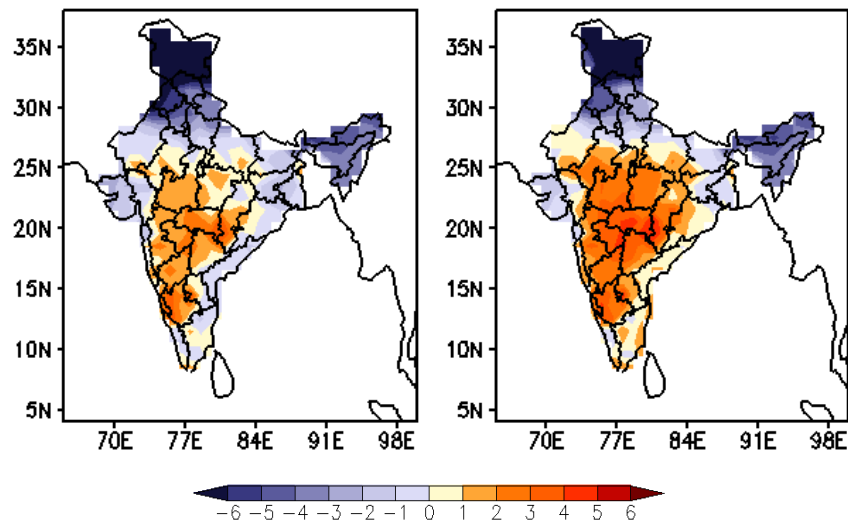
Maximum Temperature (Tmax)

- **Week 1 (21.07.2023 to 27.07.2023):** Tmax is likely to be above normal over many parts of the country. However, it is likely to be below normal over extreme north India and peninsular India.
- **Week 2 (28.07.2023 to 03.08.2023):** Tmax is likely to be above normal over most parts of the country. However, it is likely to be below normal over parts of peninsular India.

MME forecast Tmin anomaly (Deg C)

(Week1: 21Jul–27Jul)

(Week2: 28Jul–03Aug)



Minimum Temperature (Tmin)

- **Week 1 (21.07.2023 to 27.07.2023):** Tmin is likely to be above normal over parts of Central and peninsular India.
- **Week 2 (28.07.2023 to 03.08.2023):** Tmin is likely to be above normal over most parts of the country. However, it is likely to be below normal over parts of North and Northeast India.

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 223 mm (-24% deficit) and over West Uttar Pradesh was 314 mm (39% excess) during 01 June - 20 July 2023. The extended range weather forecast (rainfall) for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) is below normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under prevailing weather condition, if rice nursery is not raised, then farmers are advised to go for direct seeded rice with short duration variety.
- Farmers are advised for sowing of pigeon pea with high yielding and short duration varieties like *PDA-11*, *Pusa-9*, *Azad*, *Maveeya -2002*, *IPM 203*, *Narendra Arhar-2*, *Amar*, *Pusa-2*.
- To control mealybug insect in sugarcane crop, farmers are advised to spray Monocrotophos 36 % SL @1.5ml per litre of water during clear sky.
- Sowing of sorghum is advised with recommended varieties-*SPB-1388 (Bundela)*, *CSB-15*, *Versa*, *Vijeta* and Hybrid variety *CSH-23,13,18,14,09* and *16*.

Eastern Uttar Pradesh

- For the management of zinc deficiency in rice which is at transplanting stage, it is advised to spray 5.0 Zinc sulphate mixed 20 kg Urea with 500 litres water solution during clear sky.
- Under prevailing weather condition, farmers are advised for sowing of the maize. Recommended medium duration maize varieties are viz., *Hybrid Dakan-107*, *Malveya hybrid-2*, *JH-3459*, *Prakash*, *PSM-5*, *Pro-303*, *KH-510*, *MMH-113*, *Azad hybrid-1*, *Azad hybrid-2*, *DKC-7074* and Composite varieties *Novjoti*, *Pusa-2*, *Sweta* and *Azad uttam*.

Uttarakhand

545 mm (24% excess) rainfall was received over Uttarakhand during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Uttarakhand is below normal for week-1 and; week-2.

- Under prevailing weather conditions, it is advised not to allow water to stagnate in vegetable field, as it increases disease incidence and harvest mature fruits.
- Planting the saplings of multipurpose tree species like *bhimal*, *khadik*, *bedu*, *guiral*, *banj*, *napier grass* etc in Van Panchayat Bhoomi or fallow lands or any other suitable sites is advised.
- For the management of fruit rot in brinjal, it is advised to remove and destroy affected fruits and also spray of Zineb @2 g/litre of water or Mancozeb @ 2.5 g per litre of water during

clear weather. Add an adhesive to the solution before spraying.

- To control stem borer in maize crop during vegetative growth, it is advised to spray Cartap hydrochloride 50% SP or Dimethoate 30% EC during clear weather.

Himachal Pradesh

469.5 mm (83% large excess) rainfall was received over Himachal Pradesh during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- The heavy to rather heavy rainfall, landslides, cloudbursts, mud flows, and floods that have occurred throughout the state has caused the waterlogged conditions in crops such as maize and other *kharif* crops. Extensive damage has been inflicted on apple, rice, maize, pea, and tomato crops. The general public is cautioned not to go near the banks of rivers and drain out the excess water in maize, soybean and vegetable fields.
- Under prevailing weather condition, it is advised to prepare proper bunds in paddy fields for water conservation.
- For the management of fall armyworm in maize crop and farmers are advised to spray Emaxectin benzoate @ 0.4 g/litre or Spinetoram @ 0.5 ml / litre or Chlorantraniliprole @ 0.4 ml / litre.
- In regions where the maize crop has reached at knee height stage, it is recommended for earthing up. Additionally, it is advised to apply the initial nitrogen fertilizer (85 kg urea per hectare) during this stage.

Punjab

238 mm (52% excess) rainfall was received over Punjab during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Punjab is above normal for week-1 and; normal for week-2.

- Farmers are advised that after draining out excess rainwater from the rice field, apply recommended dose of nitrogen fertilizer. Keep water standing in paddy field only for 2 weeks and thereafter apply irrigation.
- In flooded areas, it is advised to drain out excess water from the fields of maize, cotton, vegetables, pulses, fodder and orchards. Farmers are also advised not to irrigate or spray the crop during the period.
- Farmers are advised to harvest the cucurbits and other vegetables like tomato, chilli, brinjal and okra at regular intervals to get maximum yield.
- To control para wilt disease in Bt cotton, farmers are advised to spray Cobalt chloride @ 10 mg per litre of water (10 ppm) immediately after the appearance of symptoms.

Rajasthan

343 mm (66% large excess) rainfall was received over East Rajasthan during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over East Rajasthan is normal for week-1 and; above normal for week-2.

- Due to the forecast of light to moderate rainfall during week-1 and above normal rainfall in week 2, farmers are advised to postpone insecticide and weedicide sprays in vegetables and other crops. Prepare bunds around the field to conserve moisture in the fields.
- Farmers who have not sown maize crop yet, are recommended to either refrain from sowing maize or opt for early maturing varieties of maize and intercrop them with black gram in the ratio 2:2.
- After July 15, farmers are recommended to opt for pulses instead of maize for sowing. Recommended green gram varieties are *Pusa Visal*, *Pusa 5931*, *SML-668*, *K-851*, *RMG-62*, *ML-267*, *RMG-268*, *SML-668*, *GM-4*, *RMG-492*. Blackgram varieties *PU-31*, *Pratap Urd*, *T-9*, *Barkha*, *KU-96-3*.
- For the control of shoot fly in sorghum, it is advised to complete the sowing of crop within the week after receiving of first monsoon rainfall. Recommended improved varieties of sorghum are *CSV-15*, *CSV-17*, *Pratap sorghum-1430*, *CSV-23*. Fodder purpose (Multi cut) *MP charri*, *SSG-59-3* Single cut are *Rajasthan charri-1*, *Rajasthan charri-2*, *Pratap charri-1080*.

Jammu

280 mm (51% excess) rainfall was received over Jammu during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Jammu is below normal for week-1 and; normal for week-2.

- Due to forecast of below normal rainfall during next week, Farmers are advised to go for sowing of Mash (var. *Pant U-19*, *Uttara*) & Moong (var. *SML-668*) immediately at optimum soil moisture condition in rainfed areas.
- Farmers are advised to ensure staking with plastic string in vegetable crops to avoid losses from gusty winds and heavy rain. Fruits must be protected from direct contact with soil and apply straw, leaves etc below fruits to prevent them from rotting.
- Due to rain during past week, farmers are advised Chrysanthemum not to allow water stagnation in chrysanthemum field. Make arrangements to drain out excess water from the fields. Postpone plant protection measures as well as application of fertilizers.

Hisar

246 mm (65% excess) rainfall was received over Hisar during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Hisar is normal for week-1 and; above normal for week-2.

- Due to possibility of light to moderate rainfall during week-1 and above normal rainfall

during week-2, farmers are advised to stop the irrigation and pesticides spray in cotton and monitor the population of whitefly, thrips and bollworm.

- Under prevailing weather conditions, farmers are advised to transplant the paddy from nursery to main field and apply fertilizers as recommended by CCS HAU, Hisar. Use recommended herbicides for control of weeds by mixing with sand in standing water within 2-3 days of transplanting.

Assam

787 mm (-9 deficit) rainfall was received over Assam during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Assam is normal for week-1 and week-2.

- Due to flood/ inundation situation in the state, farmers are advised to download “MAUSAM” app for weather forecast and “DAMINI” app for lightning alert, intending to help save lives of humans as well as livestock. Provide staking to vegetable crop and drain out excess amount of water from low lying crop field.
- Farmers who have not yet sown the seeds of long duration *sali* rice varieties are advised to complete sowing in the nurseries within this week. Recommended varieties like *Ranjit*, *Bahadur*, *Piolee*, *Kushal*, *Moniram*, *Bhgalee*, *Aghoni* etc.
- This is the optimum time for sowing of pigeonpea in Assam, up to end of July. Farmers are advised to collect the seeds of suitable high yielding variety viz. *T-21* from recognized sources.
- Due to congenial weather conditions, symptoms of gummosis disease may be observed in the citrus crops. To manage, it is advised to scraped out affected portion without injuring the wood followed by smearing it with Bordeaux paste. And also, make provisions to drain out the excess water from the orchards.
- To prevent lodging of sugarcane crops due to rainfall, it is advised to provide mechanical support to the crops by using bamboo sticks or tying 4 to 5 canes together with their leaves.

West Bengal

287 mm (-37% deficit) rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 983 mm (15% excess) during 01 June - 20 July 2023. The extended range weather forecast (rainfall) for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and; week-2.

- Drainage channels should be cleared in periodic intervals to avoid water logging conditions. Harvesting of pointed gourd is advised in low land area.
- Frequent hand weeding is advised in soybean crop up to maximum canopy proliferation.

Bihar

238 mm (-40% deficit) rainfall was received over Bihar during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and

28 July - 03 August 2023) over Bihar is below normal for week-1 and week-2.

- Planting of healthy suckers of banana is advised. *Alpaan, Champa, Kanthali, Maalbhog, Chinia, Sakerchinia, PHIA-23* (tall varieties) and *Grandnaine, Robesta, Basrai, PHIA-1 (Gold finger), BRS-1* (dwarf varieties) which are recommended for planting in North Bihar.
- Sowing of pigeon pea in upland areas is advised. *Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1* and *Malvyia-13* varieties of pigeon pea are recommended for sowing in North Bihar.

Jharkhand

218 mm (-44% deficit) rainfall was received over Jharkhand during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Jharkhand is below normal for week-1 and week-2.

- Farmers are advised to intercrop improved varieties of pigeon pea viz., *Birsa Arhar-1, Birsa Arhar-2, Bahar, Upas, IPA 203* with short duration improved varieties of groundnut/paddy/urid /turmeric /jowar/soybean/okra/maize.
- Farmers are advised for sowing of recommended high yielding varieties of maize viz., PMH-3; of timely maturing: Malviya sankar makka, BAUMH-3, Early maturing: BAUMH-05, Prakash, Very Early maturing: Vivek sankar makka, Hybrid: HQPM-1, HQPM-5 and BAUQMH-07 (Late maturing) with recommended dose of fertilizer.
- For the control of red spider mite in okra crop from sowing to harvesting stage, it is advised to spray Oberon or Omite @ 2 litres/ ha of water.

Chhattisgarh

374 mm (-11% deficit) rainfall was received over Chhattisgarh during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Chhattisgarh is normal for week-1 and; week-2.

- During past week, flooding was observed in Bijapur district and intermittent dry spells observed in Bastar, Raigarh, Korba, Narayanpur, Surajpur, Balrampur, Janjgir, Kabirdham, Bemetara, Jashpur, Kondagaon and Surguja districts, due to this transplanting of rice is delayed in deficient rainfall areas. Farmers are advised for adopting water conservation agronomic techniques.
- Due to the forecast of light to moderate rainfall, farmers are advised for sowing of *kharif* crops with proper drainage channels.
- Due to forecast of light to moderate rainfall, farmers are advised to maintain proper drainage channels in the orchards field.
- Vaccinate the poultry birds to prevent Ranikhet disease. (first F-1 in age of 7 days and

second R2 B in age of 8 weeks)

Odisha

356 mm (-15% deficit) rainfall received over Odisha during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Odisha is normal for week-1 and; week-2.

- Under prevailing weather condition, farmers are advised to go for land preparation for sowing of non-paddy crops like groundnut, arhar, castor green gram, black gram and sesame in upland areas.
- For thrips management in rice nursery, it is advised to spray NSKE (Azadirachtin) @ 800 ml/acre or Lambda-Cyhalothrin 5% EC @ 100 ml/acre or Thiamethoxam 25 % WG @ 40g /acre.
- Top dress nitrogen fertilizer in early planted maize and jute after receding of rain is advised. It is also advised to make provisions for drainage in *kharif* maize and pulses etc.
- Hoeing and earthing up is advised at 20-25 DAS for better peg formation in groundnut crop.

Gujarat

461.4 mm (35% excess) rainfall received over Gujarat during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) over Gujarat is above normal for week-1 and week-2.

- Under prevailing weather condition, transplanting of 20-25 days old paddy seedlings is recommended in a well-prepared main field and use 2-3 plants per hill for planting with spacing of 20 cm between row and 15 cm between plants.
- Monitor groundnut crop for infestation of aphids. If infestation is observed, spray Imidacloprid 17.8% EC @3 ml in 10 litres of water.
- For the control of powdery mildew disease in cluster bean, spraying of Hexaconazole 5 EC 10 ml/10 litres is advised.

Maharashtra

242 mm (-19% deficit) rainfall over Madhya Maharashtra; 354 mm (-5% deficit) rainfall over Vidarbha; 207 mm (-12% deficit) rainfall over Marathwada; and 1552 mm (12% excess) in Konkan region was recorded during 01 June - 20 July 2023. The extended range weather forecast (rainfall) for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) is above normal over Madhya Maharashtra, Marathwada, Konkan and Vidarbha for week-1 and; normal over Konkan and Vidarbha and above normal over Madhya Maharashtra and Marathwada for week-2, respectively.

Vidarbha

- Sowing of soybeans after the 15 July results in a notable decrease in yield. However, for medium to heavy soils, sowing can be extended until the 25th of July, preferably using early

duration varieties viz., varieties *PDKV-Amba*, *JS 93-05*, *JS 95-60*, *JS 20- 29*, *JS 20-34*, *MAUS-71*, *MAUS-158*.

- Farmers are advised to complete the sowing of pigeon pea. For sole pigeon pea, recommended varieties are *Asha (ICPL 87119)*, *PKV TARA* and adopt closer spacing (90 x 20 cm or 60 x 30cm). Preferably follow soybean+pigeon pea intercropping (4:2 or 6:3).
- Keep farm animals indoor during thunderstorm/lightning. In farm livestock preventive vaccination for foot and mouth disease (FMD) and preventive deworming for flat worms is advisable.

Madhya Maharashtra

- Soybean is advised to sow in areas where rainfall more than 100 mm is received. Use the seed of improved varieties like *Phule Durva*, *P.Kimaya* and *P. Sangam*.
- In areas with limited rainfall during late sowing, it is advisable to prioritize crops such as pearl millet or sunflower, as they are more likely to provide a better economic yield.

Konkan

- Due to heavy to very heavy rainfall received during last week, farmers are advised to drain out excess water from rice, finger millet nursery, vegetable crop, turmeric, papaya, banana, coconut, arecanut, sapota, new fruit crop orchard.
- Maintain optimum water level of 2.5 to 5 cm in transplanted rice field and make arrangement to drain out excess water from transplanted rice field as well as from nursery.
- As forecast for above normal rainfall during next week, it is advised to do transplanting of rice only during low intensity of rain.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 103 mm (11% excess) during 01 June - 20 July 2023. The extended range weather forecast (rainfall) for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) is normal for week-1 and; week-2.

- Wind and rainfall may damage the coconut crop which is at young seedling stage. Hence farmers are advised to provide to young seedlings. Also, advised for earthing up and raising of green manure that can hold the rain water for crop stand.
- To avoid lodging in banana orchard which is at vegetative stage to bunch formation stage, propping and earthing-up operation is advised.
- The prevailing weather condition is conducive for incidence of stem borer in paddy at vegetative stage. To manage, it is advised to spray Azadirachtin 0.03% 1000 ml/ha (or) Carbofuran% 3 G @25 kg/ha (or) Chlorantraniliprole 18.5% SC 150 ml/ha.

Kerala

673 mm (-38% deficit) received over Kerala during 01 June - 20 July 2023. The extended range weather forecast (rainfall) for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) is above normal for week-1 and; normal for week-2.

- There is a chance for the development of bacterial leaf blight disease in the paddy (*virrupu* rice) nursery. As precaution, it is advised to spray the rice nursery with raw cow dung @ 20 g/litre during clear weather.
- During rainy season, there is a chance of downy mildew infestation in cucurbitaceous vegetables. To control, it is advised to spray 2.5 g Mancozeb per one litre of water under the leaves. Pesticides should not be applied during rainy period.
- In order to prevent fungal diseases during monsoon season, root dipping of vegetable seedlings in *Pseudomonas* solution is advised before planting.
- Due to high moisture content in the atmosphere, there is a chance for the development of mahali disease in arecanut and coconut. To prevent, it is advised to take necessary phytosanitary measures and provide proper drainage facilities. Apply 500 g of lime per plant. Spray 1% Bordeaux mixture with sticker as a prophylactic measure. Pesticides should not be applied during rainy period.

Anantapur

86 mm (-33% deficit) rainfall received over Rayalaseema and 201 mm (-3% deficit) rainfall received over Coastal Andhra Pradesh during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) is above normal over Rayalaseema and Coastal Andhra Pradesh for week-1 and; below normal over Rayalaseema and normal over Coastal Andhra Pradesh for week-2.

- In Ananthapuramu, Kurnool, Kadapa, Chittoor and Prakasam districts, redgram growing farmers are advised to select the varieties like *LRG-41*, *LRG-52*, *PRG-176*, *ICPL-85063* and *ICPL-87119*. The optimum sowing time for redgram is June to August.
- In Srikakulam, Vizianagaram, Visakhapatnam, Nellore, Chittoor, Ananthapuramu and Kurnool districts, groundnut farmers are advised to select high yielding and drought tolerant groundnut varieties viz., *Kadiri- 6*, *Kadiri-9*, *KadiriHarithandhra*, *Anantha*, *Greeshma*, *Narayani*, *Abhaya* and *Dharani*.
- Farmers growing pearl millet are advised to select bajra varieties viz., *ABV-04*, *Raj-171*, *Pusa-61* and *PSV-56* and treat the seeds with Thiram or Captan @ 3g/kg of seed.

Karnataka

189 mm (-32% deficit) rainfall received over South Interior Karnataka, 1393 mm (-12% deficit) over Coastal Karnataka and 147 mm (-17% deficit) rainfall received over North Interior Karnataka during 01 June - 20 July 2023. The extended range weather forecast (rainfall) provided for the next

two weeks (21 - 27 July 2023 and 28 July - 03 August 2023) is above normal over North Interior Karnataka, Coastal Karnataka and South Interior Karnataka for week-1 and; above normal over North Interior Karnataka and normal over Coastal Karnataka and South Interior Karnataka for week-2.

South Interior Karnataka

- Due to sufficient soil moisture available in crop fields, it is advised to continue the sowing of groundnut with recommended varieties viz., TMV-2, JL-24, KCG-6.
- Intercultural operation is advised to conserve soil moisture due to shortage of rainfall.
- Wherever over population of crop plants exist, undertake thinning operation for better availability of scarce soil moisture to the reduced population of crop plants.
- Deep ploughing is recommended in mango orchard. Rainwater harvesting through opening circular trenches around the tree at a distance of 6 feet and width at 9 inches, as well as depth and mulching the trenches with dry mango and green leaf manuring helps in retaining sufficient soil moisture in soil.
- Due to high wind speed it is advised to postpone the chemical spraying operation in agriculture and horticultural crops and provide staking support to banana and vegetable crop to protect from uprooting of crops.

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