



# **National Agromet Advisory Service Bulletin**

**Date of issue: 26 August 2022**

based on

**Extended Range Weather Forecast (ERFS)**

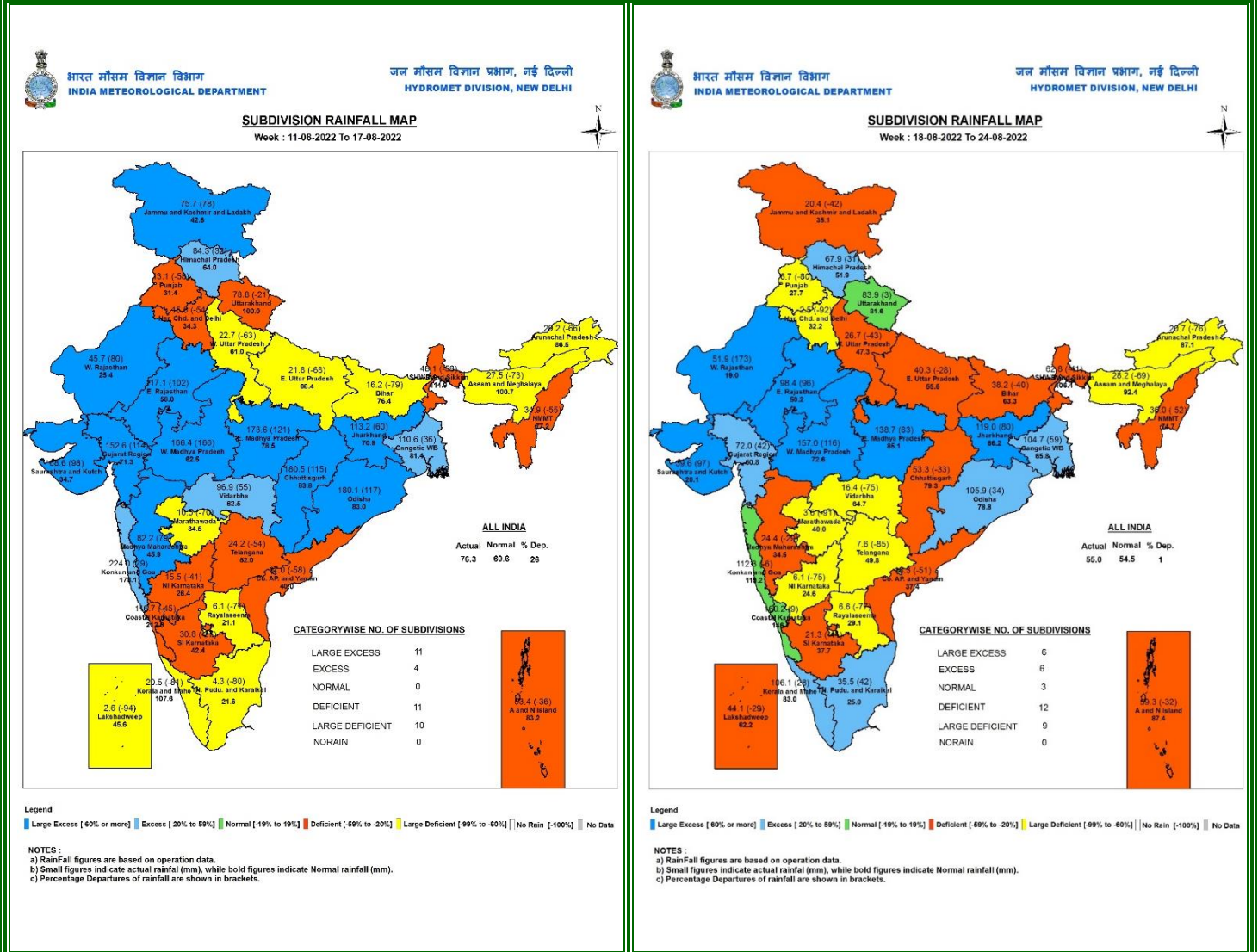
**Validity: 26 August - 08 September 2022**

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**AICRP on Agro-Meteorology (AICRPAM)  
Central Research Institute for Dryland Agriculture (CRIDA)  
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&  
India Meteorological Department (IMD)  
Earth System Science Organization**

## Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

### Realized Rainfall (11<sup>th</sup> to 24<sup>th</sup> August, 2022)

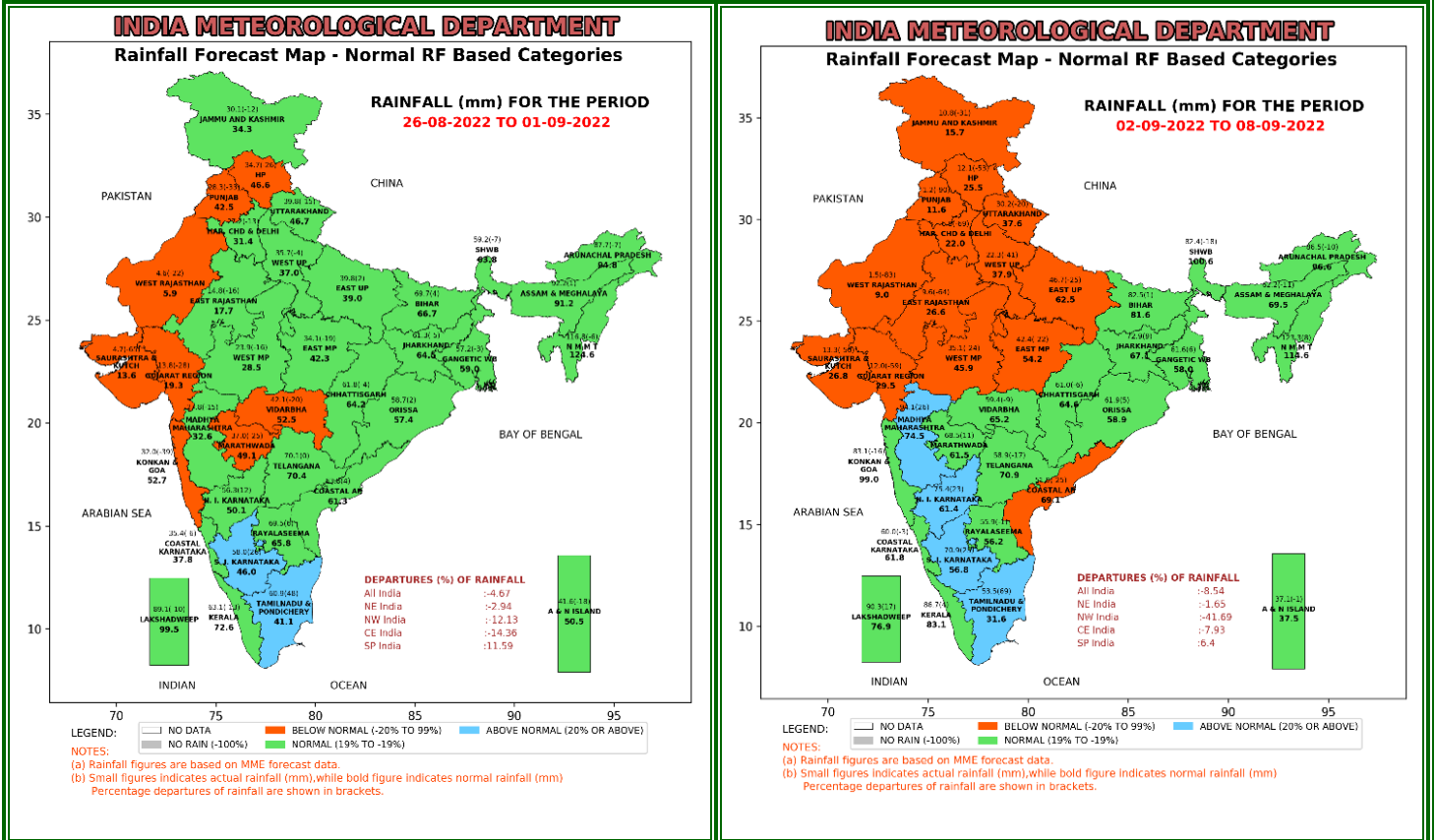


- Normal or above normal rainfall occurred in both the weeks in Himachal Pradesh, Rajasthan, Gujarat, Konkan & Goa, Madhya Pradesh, Jharkhand, Odisha and Gangetic West Bengal.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Uttarakhand, Madhya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

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC- 24<sup>th</sup> August)

(26<sup>th</sup> August to 8<sup>th</sup> September 2022)



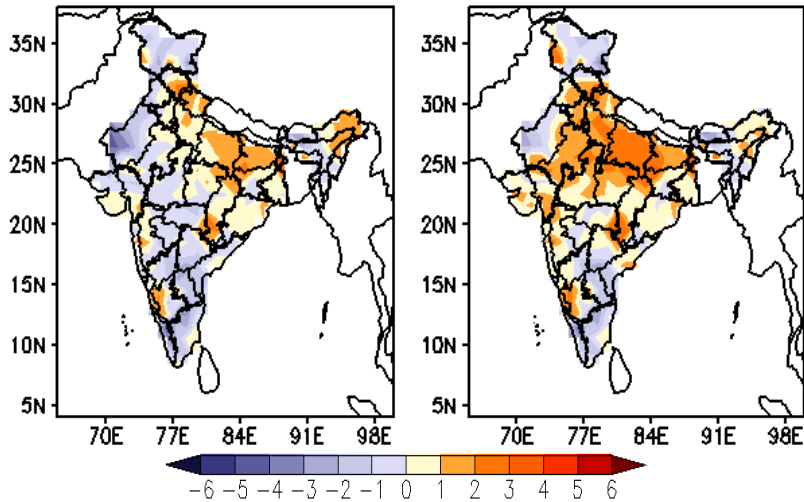
- **Week 1 (26.08.2022 to 01.09.2022):** Rainfall is likely to be mostly normal over the central and northwest parts of India and normal to slightly above normal over south peninsula, parts of west coast and eastern India covering east Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal.
- **Week 2 (02.09.2022 to 08.09.2022):** Rainfall is likely to decrease over northwest India and likely to increase over Bihar, Northeast India and south peninsula.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC- 24<sup>th</sup> August)  
(26<sup>th</sup> August to 8<sup>th</sup> September 2022)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 26Aug-01Sep)

(Week2: 02Sep-08Sep)



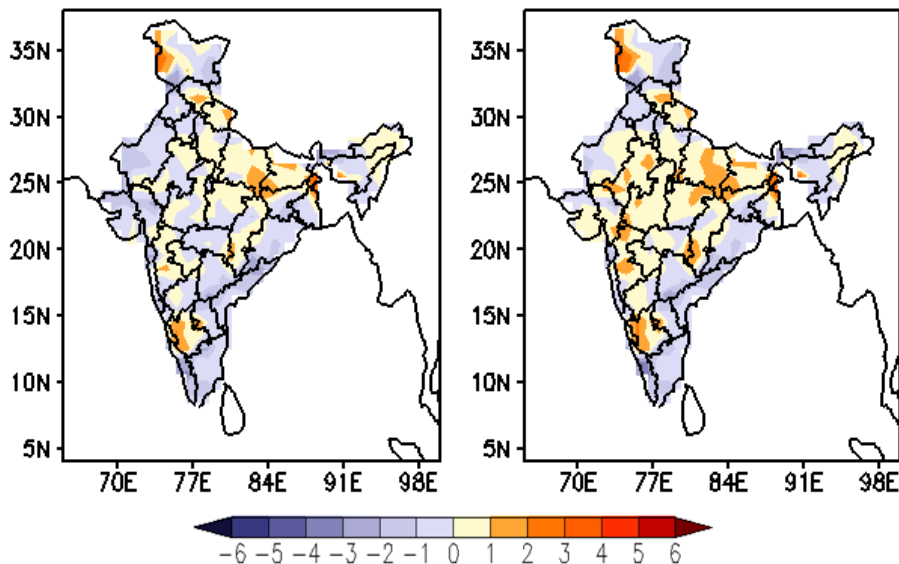
**Maximum Temperature (Tmax)**

- **Week 1 (26.08.2022 to 01.09.2022) and Week 2 (02.09.2022 to 08.09.2022):** Tmax will be above normal over some parts of Jharkhand, Uttar Pradesh, Bihar, Odisha, Chhattisgarh, North Madhya Pradesh and Rajasthan during the period with slightly higher anomaly in week 2.

**MME forecast Tmin anomaly (Deg C)**

(Week1: 26Aug-01Sep)

(Week2: 02Sep-08Sep)



**Minimum Temperature (Tmin)**

- **Week 1 (26.08.2022 to 01.09.2022):** Tmin will be close to normal over the country.
- **Week 2 (02.09.2022 to 08.09.2022):** Slight increase in Tmin over Indo Gangetic region and central India.

## **Agromet Advisories**

### **Uttar Pradesh**

The amount of rainfall received over East Uttar Pradesh was 328 mm (-45% deficit) and over West Uttar Pradesh was 297 mm (-43% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) is normal over both East Uttar Pradesh and West Uttar Pradesh for week-1; below normal over both East Uttar Pradesh and West Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Due to highly deficit rainfall condition (44 districts of Uttar Pradesh have received deficient rainfall and 21 districts have received large deficient rainfall), farmers are advised for sowing of following recommended short duration, late sown varieties of:
- Pigeon pea: *PDA-11, Narendra Arhar-2, MAL-13, IPA-203* and *Pusa-9*.
- Green gram: *IPM-205-7, KM-2195, KM-2241 Azad moong-1, IPM-302-2 Meha, MH-2-15* and *TM-9937*.
- Pearl millet (composite varieties): *ICMB-155, WCC-69, ICTP-8203, Raj-171* and hybrid varieties *Pusa-322, Pusa-32* and *ICMH-451*.

#### *Eastern Uttar Pradesh*

- In view of the possibility of normal rainfall in during week-1, farmers are advised to sow the seeds in nursery for *kharif* onion by making beds and the seed rate for planting per hectare will be 12-15 kg per hectare.
- Due to high humidity and the possibility of rain, the farmers are advised to keep animal sheds clean and sprinkle lime outside to prevent from mosquito and flies.

### **Bihar**

The amount of rainfall received over Bihar is 435 mm (-41% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) is normal for week-1 and; week-2.

Due to dry spell and scanty rainfall condition, farmers are advised to follow following advisory and contingency measures:

- Provide lifesaving irrigation to the standing crops, wherever possible
- Early sowing of *rabi* crops like toria and early maturing cauliflower and other vegetables may be taken up in vacant fields of upland areas.
- Sowing of *rabi* pigeon peas can also be initiated upon land preparation in upland and medium land situations.

### **Jharkhand**

The amount of rainfall received over Jharkhand is 559 mm (-26% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) for the next two weeks (26 August - 01

September 2022 and 02 - 08 September 2022) is normal for week-1 and week-2.

- Different districts of Jharkhand received good amount of rainfall during last two weeks. Therefore, farmers are advised to ensure drainage of excess water from crops/vegetables and rice fields.
- In fallow upland fields, farmers may proceed for sowing of horse gram, niger during favourable weather.
- Due to intense rain and high wind speed during last few days, lodging of plants is observed in some patches. Farmers are advised to erect and tag the plants in a group.

### **West Bengal**

The amount of rainfall received over Gangetic West Bengal was 628 mm (-27% deficit) and Sub-Himalayan West Bengal was 1387 mm (-3% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) is normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and week-2.

#### *Gangetic West Bengal*

- Utilising rain water of last few days, farmers are advised to continue retting in jute.
- The transplanting date for paddy is over. Some recommended paddy varieties for upland conditions, which has lesser crop water requirement are: *Bhatmuri, kelas, zinni, pari* and *kakri* etc.
- To control chili leaf curl, it is advised to spray Imidacloprid @ 0.2 ml/litre of water in the evening hour.
- If paddy is not transplanted yet in low lands, keep the land fallow. High rainfall in the later part of the season may cause flooding and damage the crop. In uplands, early maturing varieties of vegetables can be taken up.

### **Kerala**

The amount of rainfall received over Kerala is 1409 mm (-17% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) is normal for week-1 and week-2.

- There is a chance of quick wilt disease in pepper due to rain. To prevent, it is advised to spray 1% Bordeaux mixture or Copper oxy chloride @ 3g mixed in 1 litre of water.
- Under prevailing weather condition, there is a chance of rhizome maggot in ginger. To manage, it is advised to apply neem cake in the basin of the plant.

### **Tamil Nadu**

The amount of rainfall received over Tamil Nadu is 333 mm (+70% large excess) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) is above normal for week-1 and week-2.

- Prevailing weather condition is favorable for mealy bug incidence in guava. For management

it is advised to apply Triazophos 2 ml+ Neem oil 5 ml/1 or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/1 or release *Cryptolaemus montrouzieri* beetles @ 10/tree.

- Prevailing weather condition is also favourable for mealy bug incidence in papaya. To control, it is advised to release *Acerophagus papayae* @ 100 parasitoids / field / village or block.

### **Maharashtra**

708 mm (26% excess) rainfall over Madhya Maharashtra; 577 mm (28% excess) in Marathwada; 2597 mm (+9% surplus) in Konkan region and 963 mm (31% excess) over Vidarbha was recorded during 1 June - 26 August 2022. The extended range weather forecast (rainfall) for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Konkan, Vidarbha and Marathwada is below normal and over Madhya Maharashtra is normal for week-1 and; normal over Konkan, Vidarbha and Marathwada and above normal over Madhya Maharashtra for week-2, respectively.

#### *Madhya Maharashtra*

- To conserve the soil moisture, spraying of KNO<sub>3</sub> and hoeing is advised under moisture stress condition.
- Due to cloudy weather condition, there may be a chance of leaf eating caterpillar in *kharif* crops like soybean, sunflower, pigeon pea, bajra etc. To manage, it is advised to use pheromone traps @ 5/ha and also if required spray Profenofos/Quinalphos/Chlorpyrifos @ 20 ml per 10 litres of water.

#### *Konkan*

- Due to increase in humidity and low sunshine hours there is a chance of development of fungal disease in cashewnut. To control, it is advised to spray 0.2% Mancozeb @ 20 ml per 10 litres of water on entire tree during clear weather.
- Due to intermittent rainfall and cloudy weather condition, there is possibility of incidence of blast disease on rice crop. If incidence noticed, it is advised to spray Tricyclazole 75% WP @ 10 g or Isoprothiolane 40% EC @ 10 ml per 10 litres of water during clear weather (no rainfall).

#### *Vidarbha*

- Under prevailing weather condition, cultivation of vegetables like bitter gourd, tinda, cluster bean, cowpea, gourds etc. is advised.
- For the management of weeds and improved soil aeration, inter-cultural operation (weeding/hoeing) in *kharif* crops is advised.
- For the management of maize army worm, it is advised to install pheromone traps @ 5/acre. At the initial stage of infestation (5% plant damage), spray Azadirachtin 1500 ppm @ 50 ml or 5% NSKE per 10 litres of water during morning or evening hours during clear weather conditions.

### *Marathwada*

- For management of fall armyworm in late sown fodder maize crop it is advised to remove infected plant parts and destroy them properly and spray 5% NSKE during clear weather condition.
- For management of sucking pests in vegetable crops (chili, brinjal, okra) it is advised to spray of Pyriproxyfen 5 % + Fenprothrin 15 % @ 10 ml or Dimethoate 30 % @ 13 ml per 10 litres of water during clear weather condition.

### **Gujarat**

The amount of rainfall received over Gujarat was 954 mm (30% excess) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Gujarat is below normal for week-1 and week-2.

- Due to below normal rainfall forecast for next two weeks, irrigation is advised in standing crops as per requirement of the crop.
- Prop the canes with strong bamboos or by tying together the canes in clump to protect against high wind speed.

### **Jammu**

491 mm of rainfall (14% excess) was received over Jammu during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Jammu is normal for week-1 and below normal for week-2.

- The present weather conditions are favourable for attack of leaf blight in maize crop. To manage, it is advised to spray Mancozeb 75 WP @ 0.25% or Zineb @ 0.02% during clear weather condition.

### **Assam**

The amount of rainfall received over Assam during 1 June - 26 August 2022 was 1310 mm (-5% deficit). The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Assam is normal for week-1 and week-2.

- Since sufficient amount of rainfall is not received during the last few days, therefore farmers are advised to provide irrigation in the paddy fields and maintain 5±2 cm depth of standing water.
- During monsoon, apiaries should be provided with artificial diet, comprised of sugar (as carbohydrate); black gram or green gram powder (as protein source) and water @ 500 gram of sugar and 200 gm of protein powder, mixed in 1 litre of water.

### **Karnataka**

Rainfall received during 1 June - 26 August 2022 over South Interior Karnataka was 755 mm (+49% excess) and 428 mm (+33% excess) over North Interior Karnataka and 2806 mm (+5% surplus) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (26



August - 01 September 2022 and 02 - 08 September 2022) is normal over North Interior Karnataka and Coastal Karnataka and above normal over South Interior Karnataka for week-1 and; above normal over South Interior Karnataka and North Interior Karnataka and normal over Coastal Karnataka during week-2.

#### *South Interior Karnataka*

- In long-duration field crops like pigeon pea and castor, earthing up is advised for better availability of soil moisture to the crop rows.

#### **Punjab**

The amount of rainfall received over Punjab was 316 mm (-8% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Punjab is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to irrigate the vegetable crops at weekly intervals if rainfall is not sufficient.
- Prevailing weather condition is highly suitable for planting of citrus, guava, mango, litchi, sapota, jamun, bael, amla etc.

#### **Himachal Pradesh**

The amount of rainfall received over Himachal Pradesh was 566 mm (-3% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Himachal Pradesh is below normal for week-1 and; week-2.

- Farmers are advised for the picking in tea at 8-10 days interval to maintain the quality and productivity.
- In low hill of the state, it is the best time for sowing of root vegetables viz., radish (*Japanese White & Chinese Pink*), turnip, carrot (*Nantes, Pusa Kesar and Pusa Yamdagni*) and spinach (*Pusa Harit, All Green, Pusa Bharti and Benerjee Giant*).
- In mid-hills of the state, transplant seedlings of mid-season cauliflower varieties. Recommended varieties are *Palam Uphar, Pusa Deepali, F1 Megha, F1 Barkha* and *F1 White Excel*.

#### **Andhra Pradesh**

The amount of rainfall received over Coastal Andhra Pradesh was 436 mm (+6% excess) and over Rayalaseema was 313 mm (+23% excess) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Coastal Andhra Pradesh and Rayalaseema is normal for week-1 and; above normal over Coastal Andhra Pradesh and normal over Rayalaseema for week-2.

- In Srikakulam, Vizianagaram, Guntur and Krishna districts, present weather conditions are favorable for the incidence of sucking pests in cotton. To control, spraying of Imidacloprid

@ 0.3 ml or Acetamiprid @0.2g/litre of water is recommended.

- Present weather conditions are favourable for the incidence and spread of sigatoka leaf spot disease in banana grown in Vizianagaram and Nellore districts. To control, spraying of Propiconazole @ 0.1% (or) Tebuconazole + Trifloxystrobin @ 1ml/litre of water for 2-3 times in 25 days interval is recommended.

### **Chhattisgarh**

The amount of rainfall received over Chhattisgarh was 1010 mm (+17% surplus) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Chhattisgarh is normal for week-1 and week-2.

- The farmers who have not completed papaya transplanting till date can go for completing this operation now.
- For ginger and turmeric crops, regular earthing up and second mulching is advised.

### **Madhya Pradesh**

The amount of rainfall received over East Madhya Pradesh was 877 mm (+9% surplus) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Madhya Pradesh is normal for week-1 and below normal for week-2.

- Crop lodging in sugarcane and maize plants due to excess rainfall. It is advised to upright the plants and tie with the neighbouring plants to prevent from lodging.
- After heavy rainfall in the state, farmers are advised to follow cultural practices like weeding and inter-cultural operations both in late sown rice and vegetables.

### **Uttarakhand**

The amount of rainfall received over Uttarakhand was 814 mm (-13% deficit) during 1 June - 26 August 2022. The extended range weather forecast (rainfall) provided for the next two weeks (26 August - 01 September 2022 and 02 - 08 September 2022) over Uttarakhand is normal for week-1 and week-2.

- For the management of brown plant hoppers (BPH) in rice field, it is advised to install light trap, pheromone trap, and yellow card or spray Buprofezin 25% SC @ 800ml/ha, Imidacloprid 17.8% SL @ 120ml/ha during clear weather condition.

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