



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 22 July – 04 August 2022

Date of issue: 22 July 2022

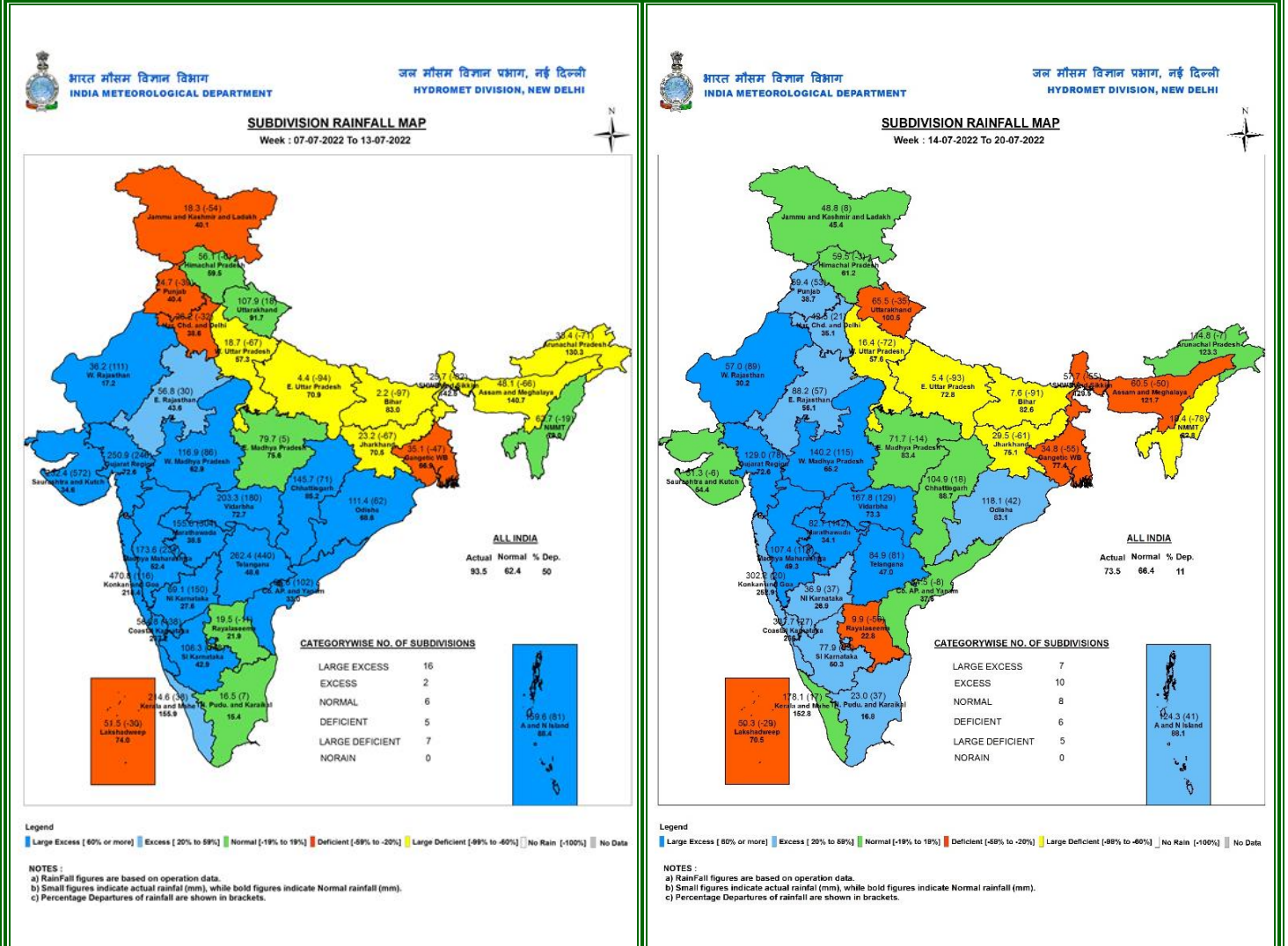
Issued by

**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 Temperature)

Realized Rainfall

(07th to 20th July, 2022)



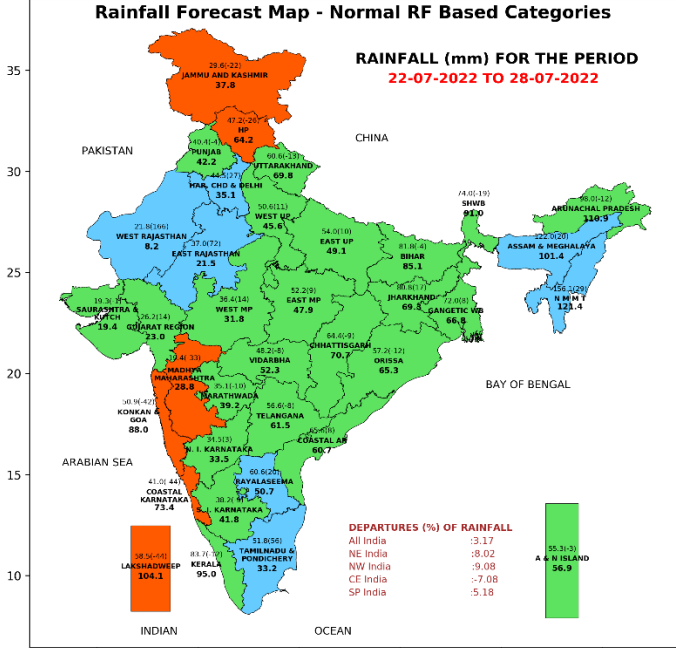
- Normal or above normal rainfall occurred in both the weeks in Himachal Pradesh, Rajasthan, Gujarat, Maharashtra, Madhya Pradesh, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Andaman & Nicobar Islands.
- Normal or above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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 20th July) (22nd July to 04th August 2022)

INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

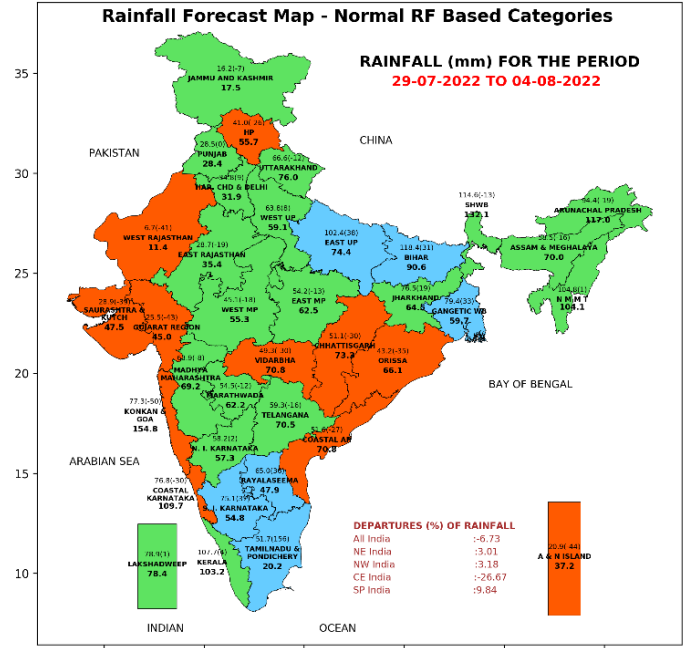


LEGEND: □ No data □ BELOW NORMAL (-20% TO 99%) □ ABOVE NORMAL (20% OR ABOVE)
□ NO RAIN (-100%) □ NORMAL (19% TO -19%)

NOTES:
 (a) Rainfall figures are based on MME forecast data.
 (b) Small figures indicates actual rainfall (mm), while bold figure indicates normal rainfall (mm)
 Percentage departures of rainfall are shown in brackets.

INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories



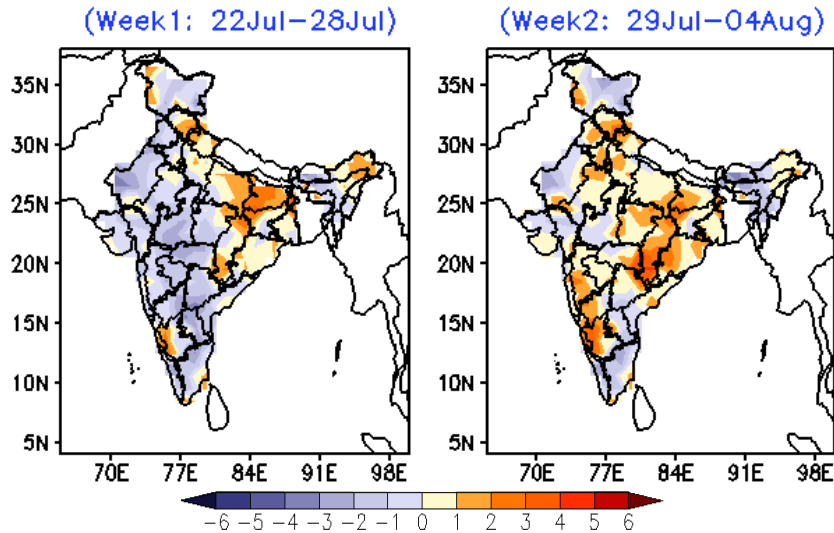
LEGEND: □ No data □ BELOW NORMAL (-20% TO 99%) □ ABOVE NORMAL (20% OR ABOVE)
□ NO RAIN (-100%) □ NORMAL (19% TO -19%)

NOTES:
 (a) Rainfall figures are based on MME forecast data.
 (b) Small figures indicates actual rainfall (mm), while bold figure indicates normal rainfall (mm)
 Percentage departures of rainfall are shown in brackets.

- **Week 1 (22.07.2022 to 28.07.2022):** Rainfall over Northwest India and Northern India along with Jharkhand will be normal to slightly above normal. However, rainfall over central India and the west coast will be normal to slightly below normal.
- **Week 2 (29.07.2022 to 04.08.2022):** Rainfall is expected to decrease over central and northwest India and likely to increase over west Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal and adjoining regions. Rainfall is likely to be above normal over some parts of the south peninsula.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 20th July)
(22nd July to 04th August 2022)**

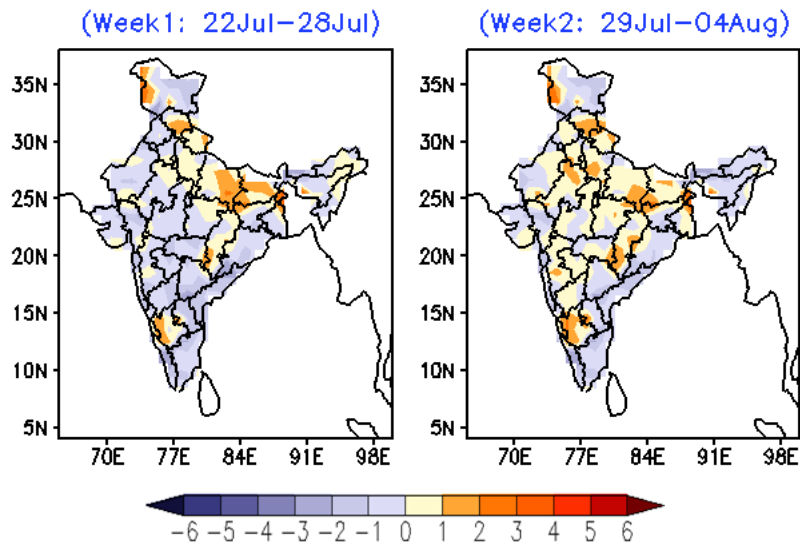
MME forecast Tmax anomaly (Deg C)



Maximum Temperature (Tmax)

- **Week 1 (22.07.2022 to 28.07.2022):** Tmax will be above normal over Uttar Pradesh, Bihar and some parts of Chhattisgarh & Jharkhand and normal to slightly below normal over rest of the regions.
- **Week 2 (29.07.2022 to 04.08.2022):** Tmax will be above normal over Uttar Pradesh, Bihar, Jharkhand, Odisha, Chhattisgarh and some parts of Madhya Pradesh, Maharashtra & Karnataka and normal to slightly below normal over rest of the regions.

MME forecast Tmin anomaly (Deg C)



Minimum Temperature (Tmin)

- **Week 1 (22.07.2022 to 28.07.2022):** Tmin will be close to normal.
- **Week 2 (29.07.2022 to 04.08.2022):** Slightly above normal Tmin will prevail over different parts of India.

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 910 mm (-19% deficit) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) is normal for week-1 and week-2.

- During rainy season, there is a chance of bacterial leaf blight in rice. As a prophylactic measure, it is advised to spray 20g of *pseudomonas* in one litre of water.
- To control the aphid attacks in cowpea, it is advised to spray Raksha @ 6g per litre or Neem soap @ 10 g per litre as an organic measure.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 158 mm (62% large excess) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) is above normal for week-1 and week-2.

- Prevailing weather condition is favorable for bud worm incidence in Jasmine. Farmers are advised to spray Thiacloprid (Alanto) 240 SC 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/litre.
- 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

438 mm (40% excess) rainfall over Madhya Maharashtra; 431 mm (73% large excess) in Marathwada; 1766 mm (22% excess) in Konkan region and 582 mm (48% excess) over Vidarbha was recorded during 1 June - 22 July 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Konkan, Madhya Maharashtra is below normal and Marathwada, Vidarbha is normal for week-1 and; below normal over Konkan and Vidarbha and normal over Madhya Maharashtra and Marathwada for week-2.

Madhya Maharashtra

- In areas where soil is affected with white grub and termites, application of phorate granules @ 15 kg per ha is recommended.
- If sufficient moisture is available in the field, then it is advised to go for sowing of dry land crops. In case of intercropping Bajra + Tur (2:1) and Sunflower + Tur (2:1) is recommended.

Konkan

- Due to prevailing condition of continuous heavy rain, there is possibility of bud rot fungal disease in young and old coconut palm. If incidence noticed, then it is advised to clean the crown region and drench 1% Bordeaux mixture into it.
- During rainy season, goat shows symptoms like Diarrhea, reduction in feed intake and weight loss due to worms, if infection of worms is observed, then it is advised to give

Albendazole @ 7.5 ml per kg weight of goat.

Vidarbha

- In rice nursery, cotton, soybean, pigeon pea, fruit and vegetables fields, it is advised to open the field channels to avoid surface ponding and drain out excess water immediately wherever rain water stagnated in the crop field.
- Under prevailing weather condition, it is advised to start nursery seed sowing of vegetables like chilli, tomato and brinjal for *kharif* transplanting.

Parbhani

- Due to cloudy weather and light rainfall, leaf hopper (*Pyrilla perpusilla*) is reported in sugarcane fields. For management, it is advised to spray 5% NSKE or *Verticillium lecanii* or *Metarhizium anisopliae* @ 40 g per 10 litres of water during clear weather condition.

Hisar

The amount of rainfall received over Hisar was 189 mm (16% excess) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) is above normal for week-1 and normal for week-2.

- Farmers are advised to withhold irrigation operations in pigeon pea field due to the forecast of above normal rainfall during week-1.
- Under prevailing weather condition, farmers are advised for sowing of sorghum, maize and lobia as a fodder crop.

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 122 mm (-61% large deficit) and 116 mm (-52% deficit) rainfall observed over West Uttar Pradesh during 1 June - 22 July 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) is normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; above normal over East Uttar Pradesh and normal over West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Sowing of late sown pigeon pea varieties like *Bahar*, *Amar*, *Azad*, *Pusa-9*, *Malviya Vikash*, *Malviya chamtkar*, *Narendra arhar-1*, *Narendra arhar-2* and *IPA-203* etc.
- Under prevailing weather condition, farmers are advised to pick up mature fruits from standing vegetables and transplant the new seedlings to the main field as early as possible.

Eastern Uttar Pradesh

- Under prevailing weather condition, to prevent yellow vein mosaic disease in okra, it is advised to spray Dimethoate 30 EC @ 1.5 ml/litre of water.
- Due to changing weather and increasing day temperature, farmers are advised to keep the animals inside the shed and clean the area around the shed to avoid infestation of house flies and others.

Jammu

226 mm of rainfall (14% excess) was received over Jammu during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Jammu is below normal for week-1 and normal for week-2.

- Due to rainfall in last week, it is advised to continue transplanting of rice seedlings which have attained 4-6 leaves (varieties: *IET-1410*, *PC-19*, *SJR-5*, *Jaya*, *Basmati 370* and *Ranbir Basmati*) without any further delay.
- Due to rainy weather condition in past week, farmers are advised to make bund in their fields for *in situ* storage of rain water and utilize the same for puddling.

Assam

The amount of rainfall received over Assam during 1 June - 22 July 2022 was 1041 mm (16% excess). The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Assam is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, it is advised to continue land preparation for cultivation of sesamum. Recommended varieties to obtain higher yield are *ST 1683*, *Punjab Til No. 1*, *AST-1* etc.
- To prevent lodging in sugarcane crops, it is advised to provide mechanical support to the crops by using bamboo sticks or tying 4 to 5 canes together with their leaves.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 475 mm (5% excess) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Chhattisgarh is normal for week-1 and above normal for week-2.

- Under prevailing weather condition, intercultural operations are advised in tomato, brinjal, chilli, okra and other vegetable crops.
- Vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

Karnataka

Rainfall received during 1 June - 22 July 2022 over South Interior Karnataka was 412 mm (42% excess) and 236 mm (28% excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) is normal over South Interior Karnataka and North Interior Karnataka for week-1 and; normal over North Interior Karnataka and above normal over South Interior Karnataka for week-2.

South Interior Karnataka

- In long-duration field crops like pigeon pea, earthing up is advised for better availability of

soil moisture to the crop rows.

Uttarakhand

The amount of rainfall received over Uttarakhand was 389 mm (-17% deficit) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Uttarakhand is normal for week-1 and week-2.

- Mulching is advised in tomato to protect from soil borne disease like buckeye rot.
- Under prevailing weather condition, it is advised to maintain proper drainage in the field to drain out excess water to avoid water stagnation.

Punjab

The amount of rainfall received over Punjab was 209 mm (24% excess) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Punjab is normal for week-1 and week-2.

- To control the attack of pink bollworm, use yellow sticky Delta trap with at least 10 micro litres of Gossyplure and place it at 15 cm above crop canopy. Replace the lure after 15 days and use 1 trap/ha.
- For the control of fruit rot and die back in chilli, it is advised to spray Folicur @ 250 ml or Indofil M 45 @ 750 g per acre at 10 days interval.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 249 mm (-9% deficit) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- In mid hills of the state it is the optimum time for raising the nursery of mid-season cauliflower varieties. Recommended varieties are *Palam Uphar*, *Pusa Deepali*, *F1 Megha*, *F1 Barkha* and *F1 White Excel*.
- Ensure proper ventilation in poultry houses. Replace the poultry houses with fresh litter and keep the houses clean and ensure drinking water to the birds.

Gujarat

The amount of rainfall received over Gujarat was 540 mm (50% excess) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Gujarat is normal for week-1 and below normal for week-2.

- Due to the rainfall in the last week, farmers are advised to make proper arrangement to remove excess rain water from fields of elephant foot, greater yam, small gourd and pointed gourd.

Rajasthan

The amount of rainfall received over East Rajasthan was 300 mm (33% excess) during 1 June - 22

July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over East Rajasthan is above normal for week-1 and normal for week-2.

- Sowing of guar and green gram is advised. Improved varieties of guar are *HG-75*, *RGC-936*, *RGC-197*, *RGC-1017*, *RGC-1002*, *RGC-1003* and *RGC-986* and; improved varieties of green gram are *SML-668*, *MUM-2*, *RMG-62*, *RMG-492* and *RMG-268*.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh was 271 mm (24% excess) and over Rayalaseema 156 mm (15% excess) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) over Coastal Andhra Pradesh is normal and Rayalaseema is above normal for week-1 and; below normal over Coastal Andhra Pradesh and above normal over Rayalaseema for week-2.

- Farmers are advised to take up land preparation with the available soil moisture and keep the fields ready for sowing of *kharif* crops. The farmers are also advised to keep the fields weed free and clean the water channels connected to farm ponds for conservation of rainwater.
- In Ananthapuramu, Kurnool, Kadapa, Chittoor and Prakasam districts, farmers are advised to select the redgram varieties like *LRG-41*, *LRG-52*, *PRG-176*, *ICPL 85063* and *ICPL 87119*. The optimum sowing time for redgram is June to August.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 245 mm (-50% deficit) and Sub Himalayan West Bengal received 902 mm (1% excess) during 1 June - 22 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 July 2022 and 29 July - 04 August 2022) is normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week- 1 and above normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal for week-2.

- Due to rainy weather condition, farmers are advised to maintain proper drainage channel and remove excess water from rice nursery bed.

Disclaimer:

The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the weather forecast. In no event, India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) will be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information presented in this bulletin.