



National Agromet Advisory Services Bulletin

Date of issue: 30 September 2022

based on

Extended Range Weather Forecast (ERFS)

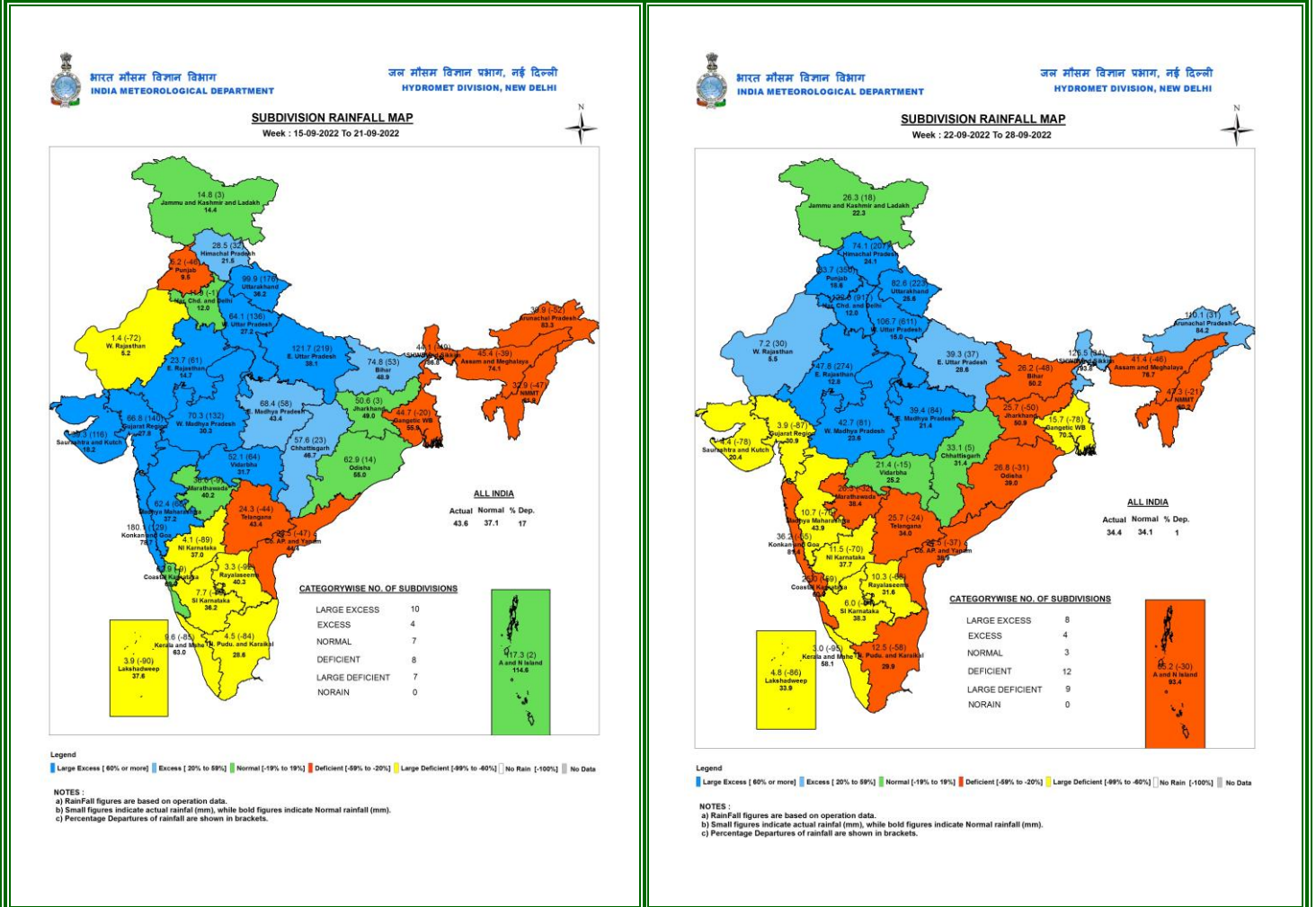
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Issued by

**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)

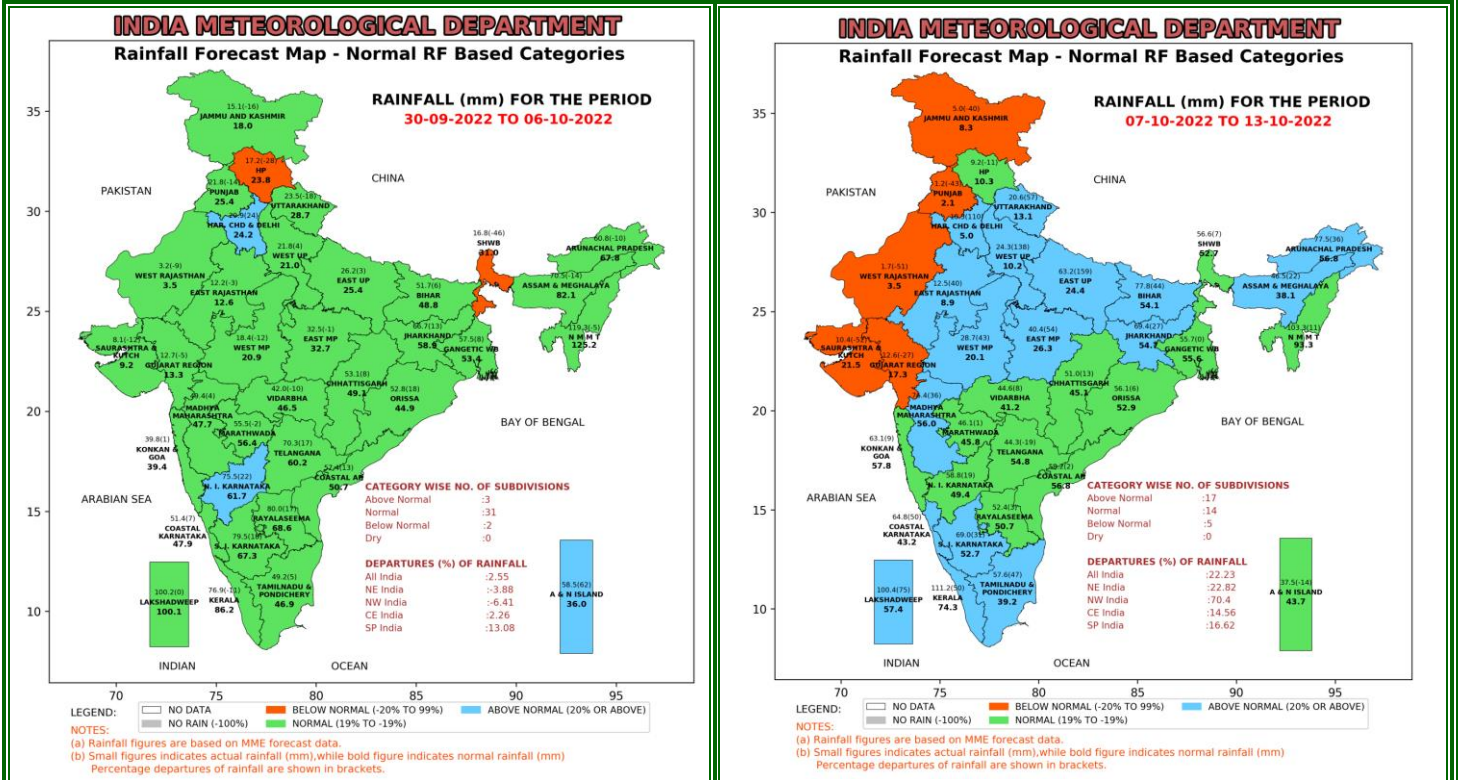
Realized Rainfall (15th to 28th September, 2022)



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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC - 28th September) (30th September to 13th October 2022)



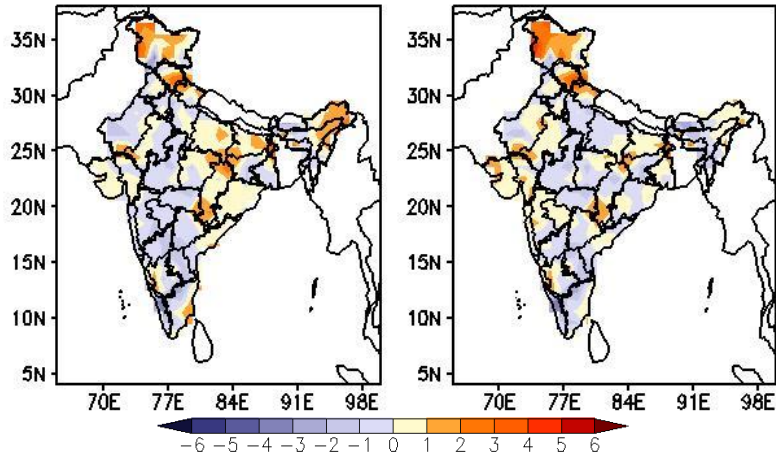
- **Week 1 (30.09.2022 to 06.10.2022):** Rainfall is likely to be normal to above normal over the country except Sub-Himalayan West Bengal and Himachal Pradesh met sub-divisions
- **Week 2 (07.10.2022 to 13.10.2022):** Rainfall is likely to be normal to above normal over all parts of the country except Jammu & Kashmir, Punjab, West Rajasthan, Saurashtra & Kutch and Gujarat met sub-divisions where below normal rainfall is expected

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for next 2 weeks (IC- 28th September)
(30th September to 13th October 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 30Sep-06Oct)

(Week2: 07Oct-13Oct)



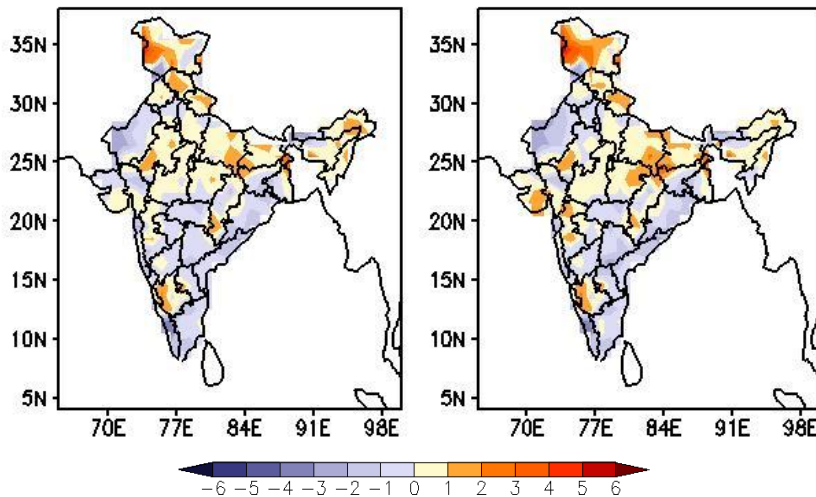
Maximum Temperature (Tmax)

- **Week 1 (30.09.2022 to 06.10.2022):** Tmax is expected to be slightly above normal over Jammu & Kashmir, Chhattisgarh, some parts of Gangetic plains and north eastern parts of the country.
- **Week 2 (07.10.2022 to 13.10.2022):** Tmax is likely to be slightly above normal over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Chhattisgarh and some parts of northwest India.

MME forecast Tmin anomaly (Deg C)

(Week1: 30Sep-06Oct)

(Week2: 07Oct-13Oct)



Minimum Temperature (Tmin)

- **Week 1 (30.09.2022 to 06.10.2022) and Week 2 (07.10.2022 to 13.10.2022):** Tmin will be above normal over Jammu & Kashmir, Gujarat, south interior Karnataka, Indo Gangetic region and central India.

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 556 mm (-30% deficit) and over West Uttar Pradesh was 502 mm (-25% deficit) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is normal over East Uttar Pradesh and West Uttar Pradesh for week-1; above normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under prevailing weather condition, there is a chance of infestation of leaf webber in pigeon pea. For management, it is advised to spray Emamectin benzoate 5% SG @ 250 g/ha or Cypermethrin 25% EC @ 500 ml/ha with 500 litres water solution.
- Under sufficient moisture condition, sowing of early potato is advised with recommended varieties like *Kufari chandramukhi* and *Kufari Ashoka*.

Eastern Uttar Pradesh

- Due to prevailing rainy condition and possibility of rainfall in the next week, farmers are advised to withhold irrigation in all the crops.
- If farmers have already given irrigation to crops, then under optimum moisture condition, they are advised for topdressing of fertilizer.
- In view of the high humidity and the possibility of rain in next two weeks, the farmers are advised to keep the animal sheds clean, sprinkle lime outside the animal shelter to prevent infection from outside.

Jharkhand

The amount of rainfall received over Jharkhand was 818 mm (-20% deficit) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is normal for week-1 and above normal for week-2.

- Farmers wish to cultivate French bean, may select one of the improved varieties like *Swarn Priya*, *Pant*, *Anupama*, *Arka Komal*, *Stingless* (Bushy variety) and *Kentki Wonder*, *Birsa Priya*, *Swarn Lata* etc. (creeper variety).
- Under assured irrigation facility, farmers are advised to cultivate potato with recommended varieties like *Kufri Ashoka*, *Kufri Pukhraj*, *Kufri Chandramukhi* etc.

Bihar

The amount of rainfall received over Bihar was 683 mm (-31% deficit) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is normal for week-1 and above normal for week-2.

- Under prevailing weather condition, field preparation for sowing of early *rabi* crops such as toria, cauliflower, cabbage, radish etc. is advised.
- Nursery sowing of early varieties of cabbage is advised. *Pride of India*, *Golden Acre*, *Pusa mukta*, *Pusa agate* and *early drum head* varieties of cabbage are recommended for sowing under North Bihar agro-climatic condition.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 871 mm (-25% deficit) and Sub Himalayan West Bengal was 1887 mm (normal rainfall) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-1 and normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- Due to forecast of normal rainfall in coming next two weeks, it is advised to harvest matured rice cultivars as early as possible and standing water of 5 cm should be maintained in late transplanted rice field.
- To control chili leaf curl, it is advised to spray Imidacloprid @ 0.2ml/litre of water at the evening hour.

Kerala

The amount of rainfall received over Kerala was 1737 mm (-14% deficit) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is normal for week-1 and above normal for week-2.

- October to February is the suitable time for cultivating cool season vegetables like cabbage, cauliflower, onion etc. Farmers are advised to prepare nursery during the last week of September or first week of October.
- To control white fly in tomato, it is advised to place yellow sticky traps @ 20 nos/ha. In case of severe infestation spray Imidacloprid 3 ml per 10 litres of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 477 mm (+45% excess) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is normal for week-1 and above normal for week-2.

- Irrigation may be skipped since there is a normal/moderate rainfall forecast for the next two weeks.
- Prevailing weather condition are congenial for aphid and leaf hopper incidence in pulses. Farmers are advised to go for foliar spray Emamectin benzoate 5% SG 220 g/ha.

Maharashtra

942 mm (26% excess) rainfall over Madhya Maharashtra; 794 mm (24% excess) in Marathwada; 3136 mm (+9% surplus) in Konkan region and 1228 mm (31% excess) over Vidarbha was recorded during 1 June - 30 September 2022. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is normal over Madhya Maharashtra, Vidarbha, Marathwada and Konkan for week-1 and; normal over Konkan, Vidarbha and Marathwada and above normal over Madhya Maharashtra for week-2, respectively.

Madhya Maharashtra

- Due to cloudy weather condition, there may be a chance of leaf eating caterpillar infestation 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 litre of water.
- For the management of aphids, jassids and mites during early stages of crop growth dusting of Quinalphos 1.5% @10 kg/ha is recommended.

Vidarbha

- Under prevailing weather condition, sowing of rainfed *rabi* sorghum viz., var. *PKV Kranti*, *Phule Yashoda*, *Maldandi* is advised during last week of September to first fortnight of October.
- For *rabi* season cultivation, undertake nursery sowing of tomato, brinjal, cabbage, cauliflower and sowing of spinach, fenugreek, radish, and carrot, dolichols bean and ivy gourd.

Marathwada

- For the management of *Helicoverpa armigera* in *kharif* sorghum it is advised to spray of 5% NSKE or dusting of Malathion powder 5% @ 20 kg per ha or Malathion 50% @ 10 ml per 10 litres of water during clear weather condition.
- Under prevailing weather condition, it is advised to store the harvested pods and threshed grains of black/green gram at safe places, precaution should be taken so that the harvested pods may not damage due to rainfall.

Konkan

- Due to dry weather and increase in temperature, there is possibility of incidence of rugose spiraling white fly on coconut. If incidence is noticed, it is advised to give three spray of neem oil 0.5% @ 50 ml per 10 litres of water at 15 days interval followed by three sprays of water by pressure pump at 10 days interval.

Odisha

The amount of rainfall received over Odisha was 1197 mm (+4% excess) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Odisha is normal for week-1 and week-2.

- The present high humid weather condition is favorable for Brown Plant Hopper (BPH) and

White Backed Plant Hopper (WBPH) infestation in paddy. For control of BPH and WBPH in paddy it is advised to avoid excess use of nitrogenous fertilizer and do not keep standing water in the field for longer period.

- There is a chance of wilt disease in brinjal and chilli crop after the rain spell. To manage wilt disease it is advised to first uproot affected plants and destroy it away from the field and drench the root zone of the plant with 200 ml of Tebuconazole mixed with 20 g of Streptocycline per acre.

Gujarat

The amount of rainfall received over Gujarat was 1105 mm (19% excess) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Gujarat is normal for week-1 and below normal for week-2.

- Under present weather condition, pink bollworm infestation is observed in cotton. For the monitoring of pink bollworm infestation, farmers are advised to put pheromone traps 5-6/ha. If infestation found, pick and burry the infested flowers/bolls in soil for control of pink bollworm and also spray Profenofos 50 EC @ 20 ml in 10 litres of water.

Jammu

581 mm of rainfall (6% excess) was received over Jammu during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Jammu is normal for week-1 and below normal for week-2.

- Sowing of toria (var. *RSPT-1*, *RSPT-2*, *RSPR-3*) is recommended under conserved soil moisture without any further delay. Intercrop toria with gobi sarson (*GSS-1*) is also recommended.

Assam

The amount of rainfall received over Assam during 1 June - 30 September 2022 was 1601 mm (-9% deficit). The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Assam is normal for week-1 and above normal for week-2.

- Farmers are advised to make provision for drainage system to drain out the excess water from the nursery bed due to rainfall
- Under prevailing weather condition, farmers are advised for sowing of mid-season varieties of Broccoli like *Green Sprouting Medium*, *Corsair*, *Cruiser*, *Emerald*, *Corona* etc. can be continued for seedling raising.

Karnataka

Rainfall received during 1 June - 30 September 2022 over South Interior Karnataka was 1010 mm (+49% excess) and 651 mm (+35% excess) over North Interior Karnataka and 3245 mm (+5%

surplus) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) is above normal over North Interior Karnataka and normal over South Interior Karnataka and Coastal Karnataka for week-1 and; normal over North Interior Karnataka and above normal over Coastal Karnataka and South Interior Karnataka during week-2.

South Interior Karnataka

- Wherever over population of crop plants exist, thinning operation is advised for better availability of scarce soil moisture to the reduced population of crop plants.
- Under prevailing weather following crops with recommended varieties are advised:

Finger millet: (var. *Indaf-5,7,9, ML-365, KMR-301*), Horse gram: (var. *PHG-9, KBH-1, Niger*), Field bean (var. *HA-3 and 4*) and Sunflower: (*KBSH-1,41,42, 44 and 53*), Cowpea (*KBC-1, TVX-944 and PKB-4* for vegetable purpose), Maize: (var. *Ganga-11, Deccan -103*), Vijaya composite, Composite *NAC- 6004, 6002*, Hybrid-*Nityashree (NAH-2049)*, Hybrid *Hema (NAH-1137)*.

North Interior Karnataka

- As deficit to large deficit rainfall received during previous week, so, it is a suitable time for top dressing of fertilizers to support flowering and good seed setting.
- Sow the crop in rows across the slope to facilitate better conservation of moisture in the soil.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 715 mm (-3% deficit) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Himachal Pradesh is below normal for week-1 and; normal for week-2.

- Under prevailing weather condition, it is advised for picking in tea at 15 days interval to maintain the quality and productivity.
- In mid hills, sowing of early varieties of pea (var. *Palam, Triloki, Arkel, VL-7 and Matar Ageta*) is advised at a spacing of 30 x 7.5 cm.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh was 640 mm (6% excess) and over Rayalaseema was 486 mm (+19% excess) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Coastal Andhra Pradesh and Rayalaseema is normal for week-1 and week-2.

- In Ananthapuramu, Kurnool and Kadapa districts, present weather conditions are favorable for tikka leaf spot incidence in groundnut. To control the disease, farmers are advised to spray, Mancozeb @ 2 g + Carbendazim @ 1 g or Hexaconazole @ 2 ml/litre of water.

- In Ananthapuramu, Kurnool and Nandyal districts, prevailing weather conditions are favourable for incidence of semi looper and spodoptera in castor. Farmers are advised to spray Flubendiamide @0.2ml/litre or Profenofos @1ml/litre of water.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 1276 mm (+13% surplus) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Chhattisgarh is normal for week-1 and week-2.

- For the management of leaf caterpillar and girdle beetle in soybean crop, it is advised to apply Profenofos 50 EC @ 1.25 litre/ha or Flubendiamide 39.35% SC 150 ml per ha 500 litres of water per ha.
- Under prevailing weather condition, winter vegetables like cauliflower, cabbage and *knolkhol* early varieties are advised for nursery sowing.

Madhya Pradesh

The amount of rainfall received over East Madhya Pradesh was 1146 mm (+10% surplus) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over Madhya Pradesh is normal for week-1 and above normal for week-2.

- Under humid and heavy rainfall conditions, citrus canker may occur in the citrus tree. For management, the affected leaves and twigs are destroyed by breaking, after that, spray of solution @ 180 g of Copper oxychloride and @ 6 g of Streptocycline in 60 litres of water is advised.

Rajasthan

The amount of rainfall received over East Rajasthan was 780 mm (24% excess) during 1 June - 30 September 2022. The extended range weather forecast (rainfall) provided for the next two weeks (30 September - 06 October 2022 and 07 - 13 October 2022) over East Rajasthan is normal for week-1 and above normal for week-2.

- Harvest the *kharif* crops where the crops are at physiological maturity and vacate the fields for sowing of *rabi* crops like mustard and gram under conserved moisture conditions and also ploughing and planking should be done properly to conserve the moisture in the soil.

Disclaimer:

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