



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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**AICRP on Agro-Meteorology (AICRPAM),
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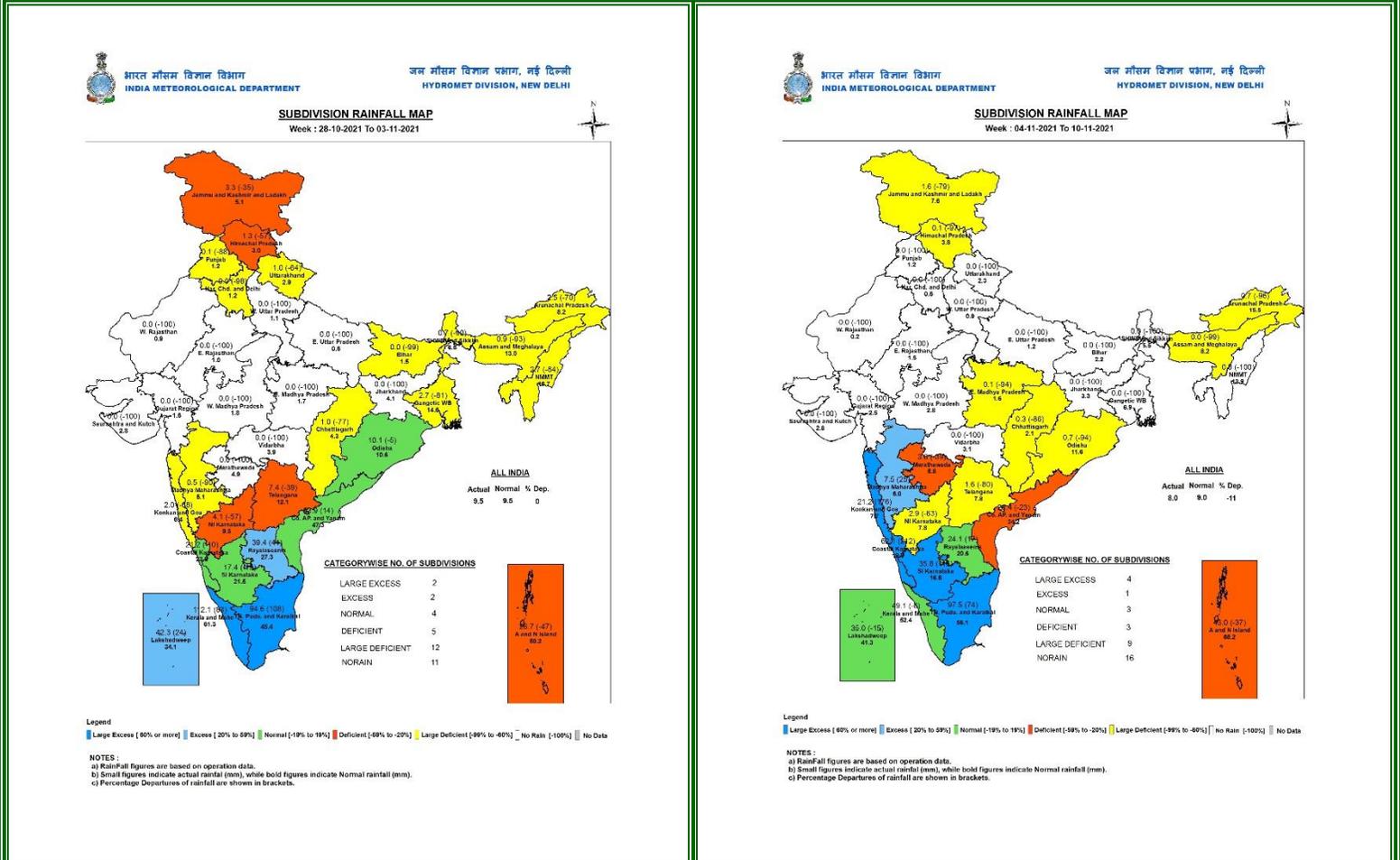
&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall

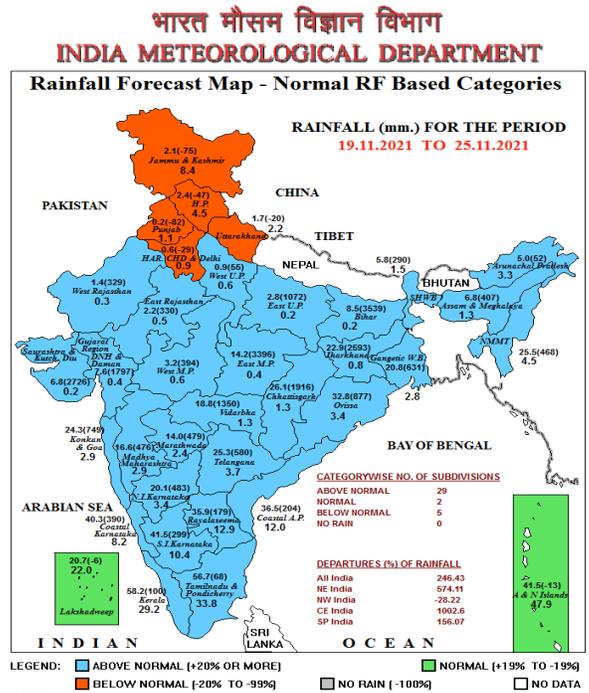
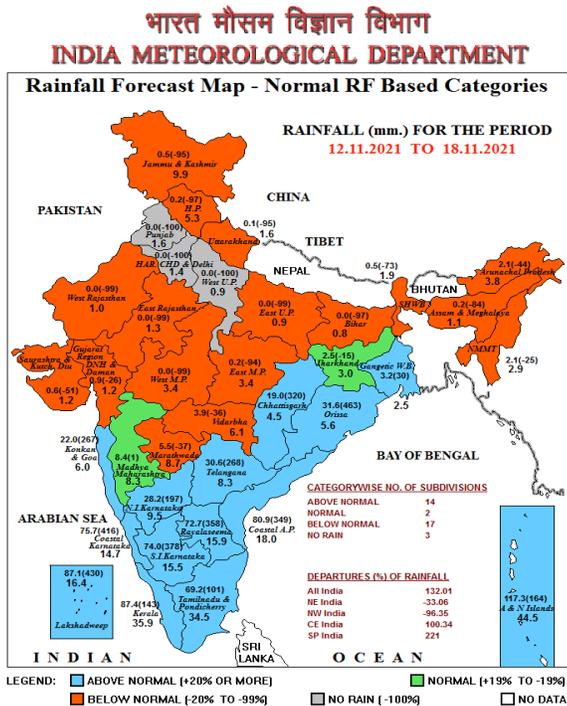
(28th October to 10th November, 2021)



- Normal or above normal rainfall occurred in both the weeks in Coastal Karnataka, South Interior Karnataka, Rayalaseema, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks in Odisha, Konkan & Goa, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam.
- Below Normal rainfall /no rain occurred in both the weeks / either of the two weeks over Jammu & Kashmir and Ladakh (UTs), Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Uttar Pradesh, East Rajasthan, West Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Gujarat Region, Saurashtra & Kutch, Marathwada, Vidarbha, Telangana, North Interior Karnataka and Andaman & Nicobar Islands.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 10 November) (12th to 25th November, 2021)



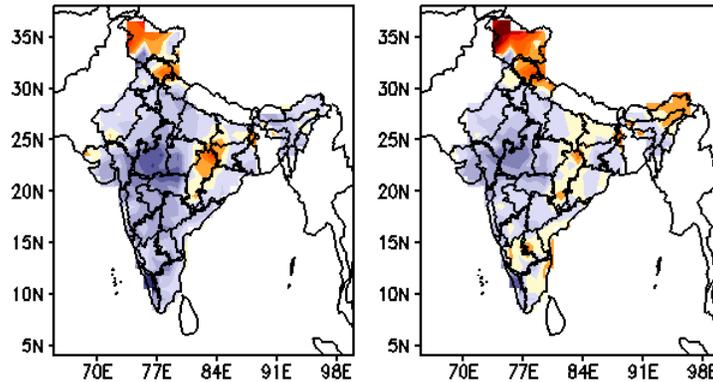
- **Week 1 (12.11.2021 to 18.11.2021):** Active northeast monsoon condition is likely over the southern peninsula regions of India in week 1. The western coastal states from Kerala, South Interior Karnataka and southern parts of Maharashtra (Konkan) in west coast and Odisha and adjoining regions in east coast will also be active during the period.
- **Week 2 (19.11.2021 to 25.11.2021):** Above normal rainfall is also likely during week 2, mainly over the Southern Peninsula, eastern regions like (Odisha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal) and part of west coast of India will also be active.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 10 November)
(12th to 25th November, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 12Nov–18Nov)

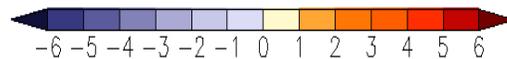
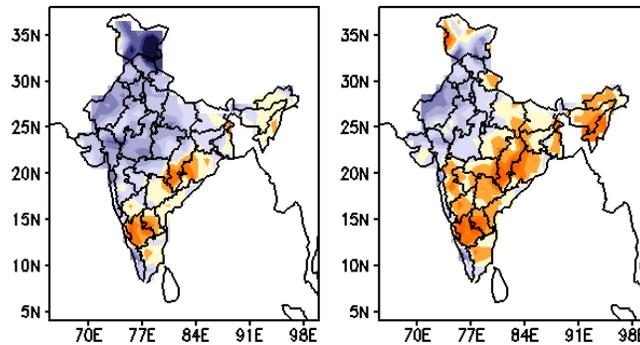
(Week2: 19Nov–25Nov)



MME forecast Tmin anomaly (Deg C)

(Week1: 12Nov–18Nov)

(Week2: 19Nov–25Nov)



Maximum Temperature (Tmax)

- **Week 1 (12.11.2021 to 18.11.2021):** Mostly below normal Tmax likely over India except some parts of Odisha and Chhattisgarh and adjoining regions and extreme north India in week 1.
- **Week 2 (19.11.2021 to 25.11.2021):** Mostly below normal Tmax likely over India except central and northwest parts of India in week 2. Above normal Tmax is likely over northwest India and eastern belt of India during the period.

Minimum Temperature (Tmin)

- **Week 1 (12.11.2021 to 18.11.2021):** Mostly normal Tmin with slight negative anomaly likely over northwest and adjoining central India in week 1, whereas, the south peninsula and eastern coastal regions will have above normal Tmin.
- **Week 2 (19.11.2021 to 25.11.2021):** Above normal Tmin will be expanded to the southern Peninsula and also to more parts of the east coast of India & adjoining central India and northeast belt.

Strategic Agricultural Planning based on rainfall during next two weeks till 25 November 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 733 mm (87% large excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) for next two weeks (12-18 November 2021 and 19 -25 November 2021) is above normal for week-1 and week-2.

- During rainy season, there is a chance of rice case worm in paddy. To control the infestation of case worm in rice fields, farmers are advised to drain water from the field. In low lying areas, if water removal is a problem, they are advised to apply a mixture of 25 kg saw dust and 1litre kerosene oil or engine oil (75 kg saw dust for one acre) in the field.
- Due to high relative humidity, there is a chance of downy mildew incidence in cucurbitaceous vegetables. If found, they are advised to spray 2.5 G Mancozeb per one litre of water under the leaves during clear sky weather.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 416 mm (56% excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) is above normal for week-1 and week-2.

- Prevailing weather condition of rainfall, it is advised to farmers to drained out the stagnated water from the nursery fields of Chilli.
- Prevailing weather condition are congenial for Yellow Mosaic Virus incidence in Pulses. Farmers are advised to go for foliar spray of Notchi leaf extract 10% at 30 DAS or Neem formulation 3 ml/lit or spray Methyl demeton 25 EC 500 ml per ha or Dimethoate 30 EC 500 ml per ha or Thiamethoxam 75 WS 1G per 3 lit and repeat after 15 days.

Maharashtra

Rainfall received over Madhya Maharashtra is 100 mm (20% excess); Marathwada is 99 mm (23% excess); Vidarbha is 56 mm (-11% deficit) and Konkan region is 140 mm (13% excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) for next two weeks (12 - 18 November 2021 and 19 - 25 November 2021) over Konkan is above normal, Vidarbha and Marathwada is below normal and Madhya Maharashtra is normal for week-1 and; over Konkan, Madhya Maharashtra, Vidarbha and Marathwada is above normal for week-2.

Konkan

- Due to dry weather conditions prevailed in the previous week and due to the above normal rainfall forecast for next two weeks, farmers are advised to complete the harvesting in the rice/paddy and finger millet and store them to safe places.
- Due to prevailing weather conditions, there is possibility for incidence of sucking pest on seedlings of vegetable crops, if incidence is noticed, apply Carbofuran 3% CG granule @ 160 G

or Fipronil 0.3% G granules.

Vidarbha

- Under prevailing weather condition, if land is under irrigated condition, they are advised to undertake sowing of chickpea (Jaki 9218, PDKV Kanchan, Vijay) latest by 10 November, Wilt resistant varieties include JAKI 9218, Vishal, ICCV-2, ICCV-10 etc.
- Under prevailing weather condition, there is chance of *Helicoverpa* infestation in pigeon pea. Hence, farmers are advised to monitor the field for the presence of eggs & small larvae. To control, they are advised to install pheromone traps @ 5 per ha and erect bird perches randomly in pigeon pea field to encourage predation by insectivorous birds.

Madhya Maharashtra

- Under prevailing dry weather condition pod borer incidence is found in chickpea, so they are advised to go for pheromone trap @5 per ha.
- Farmers are advised to go for irrigated wheat sowing by November 15. The recommended varieties are Trimbak, Tapovan, Godavari and rainfed varieties are Panchavati, Netravati and Sharad.

Marathwada

- To manage Rhizome fly in turmeric, farmers are advised to spray of Quinalphos 25% @ 20 ml or Dimethoate 30% @ 10 ml per 10 litres of water along with sticker with an interval of 15 days.
- For management of sucking pests in Chilli, farmers are advised to a spray Pyriproxyfen 5% + Fenprothrin 15% @ 10 ml or Dimethoate 30% @ 13 ml per 10 litres of water.

Hisar

Amount of rainfall received over Hisar is 26 mm (132% large excess) during 01 October - 12 November 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Hisar is no rainfall for week-1 and below normal for week-2.

- Farmers are advised to sowing of Barley with recommended varieties BH 393, BH 902, BH 88 and BH 986.

Karnataka

Rainfall received during 01 October - 12 November 2021 over South Interior Karnataka is 328 mm (94% large excess) and North Interior Karnataka is 94 mm (-21% deficit). The extended range weather forecast (rainfall) for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

South Interior Karnataka

- For biological control of pod borer in red gram, they are advised to spray HANPV @ 200 LE

per acre with with teepol (1 ml/lit.).

North Interior Karnataka

- Farmers are advised to vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septicaemia and Vaccinate (ET vaccine) sheep and goats against Enterotoxemia.

Uttar Pradesh

Rainfall received during 01 October - 12 November 2021 over East Uttar Pradesh is 87 mm (122% large excess) and West Uttar Pradesh is 92 mm (285% large excess). The extended range weather forecast (rainfall) for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over East Uttar Pradesh is below normal and West Uttar Pradesh is no rainfall for week-1 and; above normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

Western Uttar Pradesh

- For the management of leaf webber in Pigeonpea, farmers are advised to spray Emamectin benzoate 5% SG @ 250g per ha or Cypermethrin 25% EC @ 500ml per ha with 500 liter of water solution.

Eastern Uttar Pradesh

- Farmers are advised to go for sowing of Barley and wheat. The recommended varieties are RD 2552, Narendra barley-1, Narendra Barley-4. Jyoti, Azad, Haritma, Lakhan and for wheat, recommended varieties are HD- 3171, K-1317 and HD 8627.

Jammu

Amount of rainfall received over Jammu is 105 mm (132% large excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Jammu is below normal for week-1 and week-2.

- Farmers are advised to complete the sowing of mustard, Recommended varieties RSPR-01, RSPR-03, Kranti, Pusa Bahar, Pusa Basant, and Varuna.
- Farmers are advised to complete the sowing of Pea, Chickpea and Lentil Recommended varieties: Pea - AP-1, Bonnevillea, Rachna and Arkel; Chickpea - K-468, Gourav; Lentil - L-4147, L-9/12, PL-406.

Assam

Amount of rainfall received over Assam is 139 mm (-19% deficit) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Assam is below normal for week-1 and above normal for week-2.

- For the management of fruit and shoot borer in brinjal, farmers are advised to spray solution of

Emamectin Benzoate 5% SG (at the rate of 5g per 10 litres water).

- Farmers are advised to vaccinate the 4-7 days old chicks and 35 days old birds with F-1 or Lasota vaccine @ 1 drop through eye or nostril.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 41 mm (-36% deficit) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Chhattisgarh is above normal for week-1 and week-2.

- For the management of Hoppers in rice, farmers are advised to spray Dinotefuran @ 200 G or Triflumezopyrim @ 235 ml per hectare mixed in 500 litre water.
- Under prevailing dry weather condition, the vegetable fields should be given light irrigation. Heavy irrigation should be avoided.

Gujarat

Amount of rainfall received over Gujarat is 19 mm (-10% deficit) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Gujarat is below normal for week-1 and above normal for week-2.

- Under prevailing dry weather condition, for the management of grubs of stem borer in mango, it is advised collect and kill them and fill the holes with Chlorpyrifos 20 EC @ 25 ml per 10 litres water and plug them with mud.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 58 mm (73% large excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Himachal Pradesh is below normal for week-1 and week-2.

- Farmers are advised to complete the sowing of wheat. The recommended varieties are HPW 155, HPW 236, HPW 349, HS 507, VL Gehun 907, HS 562 and HPW 368.
- Farmers are advised to complete the sowing of barley. The recommended varieties are HBL 113 (Vimal), HBL 713 (Him Palam Jau 1) and HBL 391 (Gokul) while BHS 380 (Pusa Losar) and BHS 400 (Pusa Sheetal).

Punjab

Amount of rainfall received over Punjab is 35 mm (223% large excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Punjab is above no rainfall for week-1 and below normal for week-2.

- To control the attack of pyrilla in sugarcane, farmers advised to spray Chlorpyrifos 20 EC @ 600 ml per acre in 400 litres of water.
- To control the incidence of powdery mildew and black spot in Ber, it is advised to spray with of wettable sulphur @ 2.5 G per litre of water and of Bordeaux mixture (2:2:250) respectively.

West Bengal

Rainfall received during 01 October - 12 November 2021 over Gangetic West Bengal is 190 mm (36% excess) and Sub-Himalayan West Bengal is 274 mm (69% large excess). The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Gangetic West Bengal above normal and Sub-Himalayan West Bengal is below normal for week1 and over Gangetic West Bengal above and Sub-Himalayan West Bengal is above normal for week-2.

- Under the prevailing weather condition, harvesting of mature rice crop should be done by this week for short duration varieties. Grains should be properly dried; transferred and stored in safe places.

Jharkhand

Amount of rainfall received over Jharkhand is 111 mm (39% excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Jharkhand is normal for week-1 and above normal for week-2.

- Farmers may collect improved seeds of field pea. Recommended varieties are *H.U.D.P.-15*, *Dantewada matar-1*,
- Prevailing weather condition is congenial for the incidence of potato blight. Farmers are advised to spray Ridomil @ 1.5 G per litre of water.

Uttarakhand

Amount of rainfall received over Uttarakhand is 204 mm (422% large excess) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised for mulching in potato with locally available litter/dry grass to conserve soil moisture.
- For the control of weeds in wheat, it is advised to spray Pendimethalin (30%EC) @ 3300 ml per ha at 0-3 days after sowing in 800 litres of water per ha.

Andhra Pradesh

Rainfall received during 01 October - 12 November 2021 over Rayalaseema is 237 mm (42% excess) and Coastal Andhra Pradesh and Yanam is 185 mm (-27% deficit). The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Rayalaseema and Coastal Andhra Pradesh above normal for week-1 and week-2.

- In Ananthapuramu and Kurnool districts, prevailing weather situation is favourable for incidence of capsule borer in castor. For effective control of borer, spraying of Monocrotophos @ 2 ml per Litre or Spinosad @ 0.4 ml per Litre or Indoxacarb @ 1ml per Litre is recommended.
- In Ananthapuramu, Kurnool and Kadapa districts, farmers growing groundnut are advised to select the varieties Dharani, Narayani, K6, K7 and K8 Bold, Kadiri Amaravathi, Bheema, TCGS-1157, TCGS-1073.

Odisha

Amount of rainfall received over Odisha is 90 mm (-23%deficit) during 01 October - 12 November 2021. The extended range weather forecast (rainfall) provided for next two weeks (12 -18 November 2021 and 19 - 25 November 2021) over Odisha is above normal for week-1 and week-2.

- For management of downy mildew disease in cucurbits, spray Copper Hydroxide 77 % WP @ 3-gram per liter or Fosetyl -AL 80 % WP @ 3-gram per liter or Carbendazim 12 % + Mancozeb 63 % WP @ 2-gram per liter.
- For management leaf webber and pod borer in red gram, spray Chlorpyrifos 50 % + Cypermethrin 5 % EC @ 400-ml per acre or Profenophos 50 % EC @ 400-ml per acre

Disclaimer:

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