



National Agromet Advisory Service Bulletin Based on Extended Range Weather Forecast (ERFS)

Validity: 27 October- 09 November 2017

Date of Issue: 27 October 2017

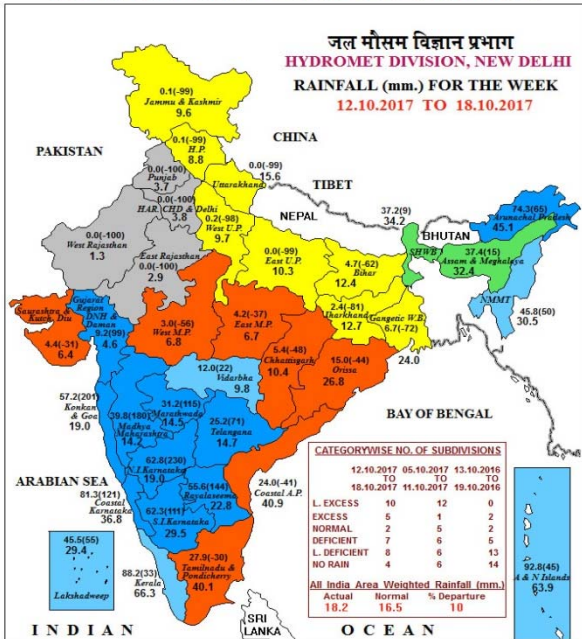
Issued by
Indian Council of Agricultural Research (ICAR)
All India Coordinated Research Project on Agricultural Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad
&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast

Realized Rainfall

(12th to 25th October 2017)

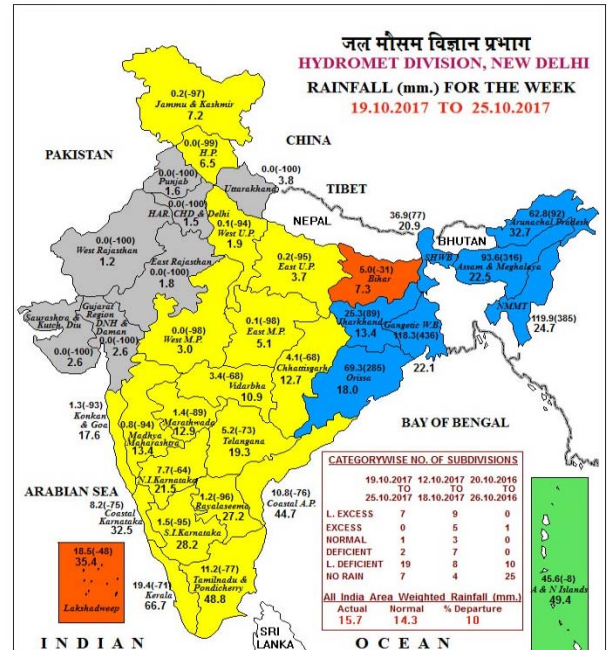
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

NOTES:
(a) Rainfall figures are based on operational data.
(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

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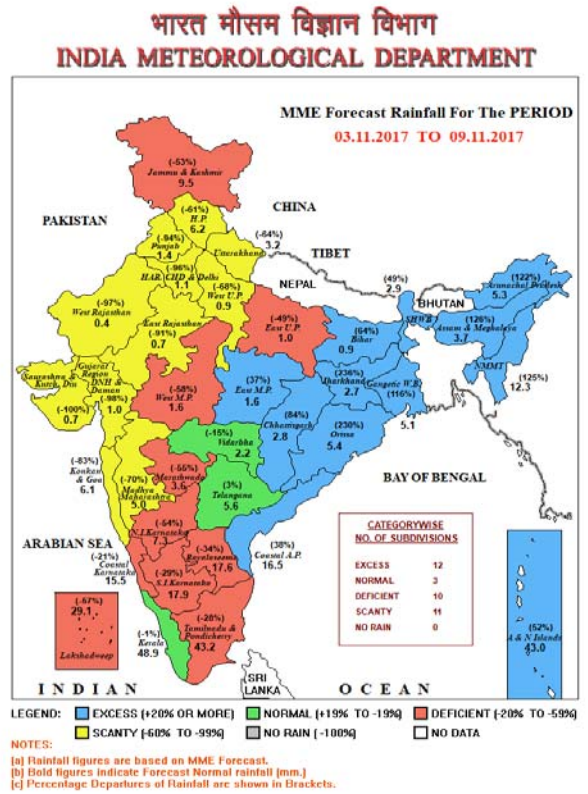
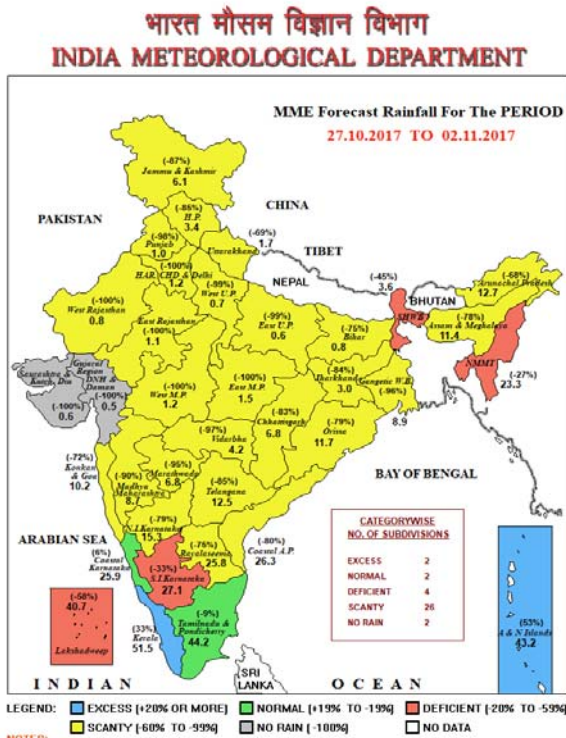
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(a) Rainfall figures are based on operational data.
(b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall occurred during last two weeks in Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram and Tripura, Sub-Himalayan West Bengal & Sikkim and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the last two weeks in Gujarat Region, Maharashtra, Jharkhand, Odisha, Gangetic West Bengal, Karnataka, Rayalaseema, Telangana, Kerala and Lakshadweep.
- Below normal rainfall/no rain occurred in the last two weeks over Jammu & Kashmir, Uttarakhand, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Saurashtra & Kutch, Madhya Pradesh, Chhattisgarh, Uttar Pradesh, Bihar, Coastal Andhra Pradesh and Tamil Nadu.

Extended Range Forecast System

Sub-division-wise rainfall forecast maps for the next 2 weeks (IC –25 October) (27th October to 9th November 2017)



- Extended Range Forecast (ERF) indicates that, during week 1 (27 October - 02 November), scanty or deficient rainfall is forecasted all over India, except over subdivisions of Coastal Karnataka, Kerala, Tamilnadu & Pondicherry.
- During week 2 (03 - 09 October), excess rainfall is forecasted over eastern and north eastern states. The rainfall in north, western parts India and south peninsula will be either scanty or deficit, except Kerala, where normal rainfall is forecasted.

Strategic Agricultural Planning based on rainfall during next two weeks till
09th November 2017
Agromet Advisories

Kerala

Rainfall received during the period of 01 to 26 October 2017 over Kerala is 181.9 mm, which is 27% deficit compared to the normal. The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) for Kerala is excess and normal, respectively.

The following advisories may be followed after the forecasted spell of rainfall

- In some areas it is time to start the second crop of paddy. If a reddish colour appears in the rice field, apply 200 kg lime/ acre. The weeds and stubbles of the first crop should be ploughed in and make a level field for transplanting. Dipping the seedlings in a solution of pseudomonas will help to protect the crop against attack of fungus and bacteria.
- For Banana, apply first dose of fertilizers (50:65:65g NPK per plant). Spray 1% Bordeaux mixture as a prophylactic measure to control leaf spot.
- To control soft rot in ginger, drench the soil with 1% Bordeaux mixture/0.3% mancozeb. Application of pseudomonas, split application of fertilizers and increased application of organic fertilizers are found to be effective in controlling the disease. Spray 0.1% malathion to control shoot borer.

Karnataka

Rainfall received during 1-26 October 2017 in major meteorological sub-divisions of the state are as follows: South Interior Karnataka: 177.6 mm (38% surplus), North Interior Karnataka: 148.5 mm (48% surplus) and Coastal Karnataka: 182.8 mm (11% surplus).

The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) for different subdivisions of Karnataka are: South interior Karnataka (deficit for both weeks); North interior Karnataka (scanty and deficient); Coastal Karnataka (Normal and deficit).

South Interior Karnataka

- Ideal conditions for sowing rabi crops under assured irrigation and land preparation is recommended for dryland crops.
- Pruning operations in grapes can be continued as deficit rainfall is forecasted for both the weeks.

North Interior Karnataka

- Farmers are advised to take up sowing of rabi crops wherever assured irrigation facilities are available
- In medium black soils, sowing of sunflower, chickpea, dicoccum wheat under irrigated condition may be taken up.

Maharashtra

Rainfall received during 1-26 October 2017 in major meteorological sub-divisions of the state are as follows: Vidarbha: 57.5 mm (3% surplus); Marathwada: 100.2 mm (49% surplus); Madhya Maharashtra: 112.4 mm (52% surplus) and Konkan: 153.6 mm (34% surplus)

The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) for different subdivisions of Maharashtra are: Vidarbha (scanty and normal); Marathwada (scanty and deficient); Madhya Maharashtra (scanty for both weeks) and Konkan (scanty for both weeks).

Marathwada

- Sowing of rabi sorghum should be done as early as possible to avoid loss of soil moisture which may affect germination, resulting in decreased plant population as well as yield.
- Sowing of rabi sunflower should be done as early as possible. Recommended spacing is 60 x 30 cm in deep soil and 45 x 30 cm in light soil and use 8 to 10 kg/ha seed for improved varieties and for hybrid varieties use 5 to 6 kg/ha seed for sowing purpose.
- Picking of cotton should be done early in the morning to keep cotton clean (free from dry leaves, bracts etc.).

Madhya Maharashtra

- For utilizing the soil moisture, sowing of sorghum is recommended. A spacing of 45 x 15 cm should be maintained and seed should be treated with 4 gm Sulphur & 25 gm Azotobacter.
- As enough soil moisture is available due to excess rainfall during 12-18 October, sowing of fodder crops viz. Giant pearl millet, BIAF pearl millet, Maize- African tall fodder sorghum (Variety: Phuleruchira, Phuleamruta) can be done to address green fodder shortage.
- De-worming of livestock should be carried out. After one week of de-worming, vaccination against Foot & Mouth disease (FMD) should be undertaken with the help of veterinary doctor.

Konkan

- Install methyl ugenol “Rakshak” trap @ 4 nos. per ha in cucurbitaceous vegetable crops, for effective control of fruit fly.
- Protect the poultry birds from low temperature by providing electric bulbs for heating as per the need.

Vidarbha

- Undertake harvesting/threshing of matured soybean and keep the produce safely during the first week as scanty rainfall is forecasted.
- Adoption of minimum tillage planting is advisable for rabi sowing (particularly rainfed rabi crops) to conserve residual soil moisture.

- With prevailing condition of decline in humidity and increase in maximum temperature, foliar spray of 2% DAP (200 g DAP +10 litre water) mixed with 4 ml Planofix at boll development stage is advisable in cotton to reduce boll shedding and improve boll growth. In cotton, for control of boll worm undertake application of spinosad 45% SC @ 2.25 ml OR chlorantraniliprole 18.5% SC @ 3ml OR deltamethrin 2.8 EC @ 9 ml per 10 litres of water during the first week.

Andhra Pradesh

Rainfall received during 1-26 October 2017 in meteorological sub-divisions of the state is: Coastal AP: 116.9 (30% deficit) and Rayalaseema: 215 mm (94% surplus)

The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) is: Coastal AP (Scanty and Excess); Rayalaseema (Scanty and Deficit).

- In black soil areas farmers are advised to go for sowing of chick pea, sunflower by utilizing the available soil moisture and planting of tobacco in Kurnool, Prakasam, Guntur and Godavari districts.
- Farmers of Godavari, Krishna zones and Nellore, Chittoor, Kurnool districts can take up sowing of upland blackgram. Farmers are advised to select YMV resistant varieties like GBG 1, PU 31 and TBG 104, follow seed treatment with Imidacloprid or thiomethoxam @5ml/kg and mancozeb@3g/kg of seed.
- Farmers of North coastal zone can take up harvesting of finger millet and maize which are at maturity to harvesting stage during first week as scanty rainfall is forecasted. Farmers are advised to monitor for incidence of spotted pod borer in pigeon pea. If any incidence is observed, they are advised to spray Chlorpyrifos @ 2.5ml/l and Dichlorvos@1ml/l of water. For semilooper incidence in castor crop in Ananthapuramu, Kurnool, Prakasam districts, farmers are advised to spray Profenophos @2ml/l or Thiodicarb@1.5g/lit for control.
- Leaf folder incidence was observed in paddy crop in southern zone and north coastal zone, BPH and sheath blight incidence was noticed in north coastal zone. For control of leaf folder spray chlorpyrifos 2.5 ml or cartaphydrochloride @ 2 g/l of water or Flubendiamide@0.2ml/l of water. For control of BPH and Sheath blight, spray Acephate @1.5% and Hexaconazole@2ml/l of water during first week.

Jharkhand

Rainfall received during 1-26 October 2017 in meteorological sub-division of the state is 104.4 mm (46% surplus)

The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) of Jharkhand meteorological sub-division, Ranchi is (Scanty and Excess).

- Timely sowing of rainfed rabi crop viz., mustard and linseed with improved varieties after the seed treatment with Carbendazim 1.5 g /kg or thiram 3g/kg is recommended.

- In medium land, short and medium duration varieties, transplanted at recommended sowing time (July month) are at maturity stage or ready for harvest. At the time of harvesting, pick the black earhead (affected earhead with false smut disease) and destroy them after burning.
- Choose suitable wheat cultivars like HDR- 77, K-8027, C-306, Birsagenhu – 3 etc. 50 kg seeds are required for cultivation in one acre. Seed may be sown in line at a distance of 22 cm (Row to row) and 7 cm. (Plant to plant). Before sowing seed should be treated with fungicide like Bavistin @ 2 gm per kg of seed.

Odisha

Rainfall received during 1-26 October 2017 over Odisha is 161.0 mm (58% surplus)

The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) of Orissa meteorological sub-division, Bhubaneshwar is (Scanty and Excess).

- Sowing of rabi groundnut is recommended. Choose high yielding varieties like Smruti, TAG-27, TAG – 24 and JL-24. Use 60 kg pods /acre. Treat the seeds with 1.5 g Carbendazim or 3 g Thiram/kg of seeds one week before sowing.
- Optimum time for sowing mustard under rainfed condition. Choose high yielding varieties like Parbhathi, Anuradha, and TS-29 & M-27. Use 3 to 4 kg seeds/acre. Treat the seeds with 1.5 g Carbendazim or Thiram 3g/kg of seeds one week before sowing.

Rajasthan

No rainfall was received in East and West Rajasthan during the period of 01-10-2017 to 26-10-2017.

The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) is scanty for both weeks in both East and West Rajasthan.

- Mustard seed should be treated with Imidacloprid 7.5 g per kg seed to control mustard saw fly and painted bug.
- Preparation of seed bed should be done for raising nursery of onion, chilli, brinjal, cauliflower, cabbage and tomato for rabi season.
- Sowing rabi onion can be undertaken after the receipt of soaking rain. Seed rate of 10 kg/ha seed treatment with Captan @ 2.5 g/ kg of seeds before sowing are recommended.

Assam

Rainfall received during 1-26 October 2017 over Assam is 190.2 mm (36% surplus)

The extended range weather forecast provided for next two weeks (27 October to 02 November and 03 to 09 November) meteorological sub-division is scanty and excess, respectively.

- Spray Malathion 5% dust @ 20 kg/ha as weather is congenial for rice Gundhi bug infestation.

- Farmers are advised to prepare land for sowing of rapeseed, and mustard crop. Apply lime @ 65.5 kg/bigha at least 15 days prior to sowing of seeds. The recommended varieties of rapeseed and mustard are M-27, TS-36, TS-38 etc.
- Farmers are also advised to prepare the field for potato cultivation.

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