



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

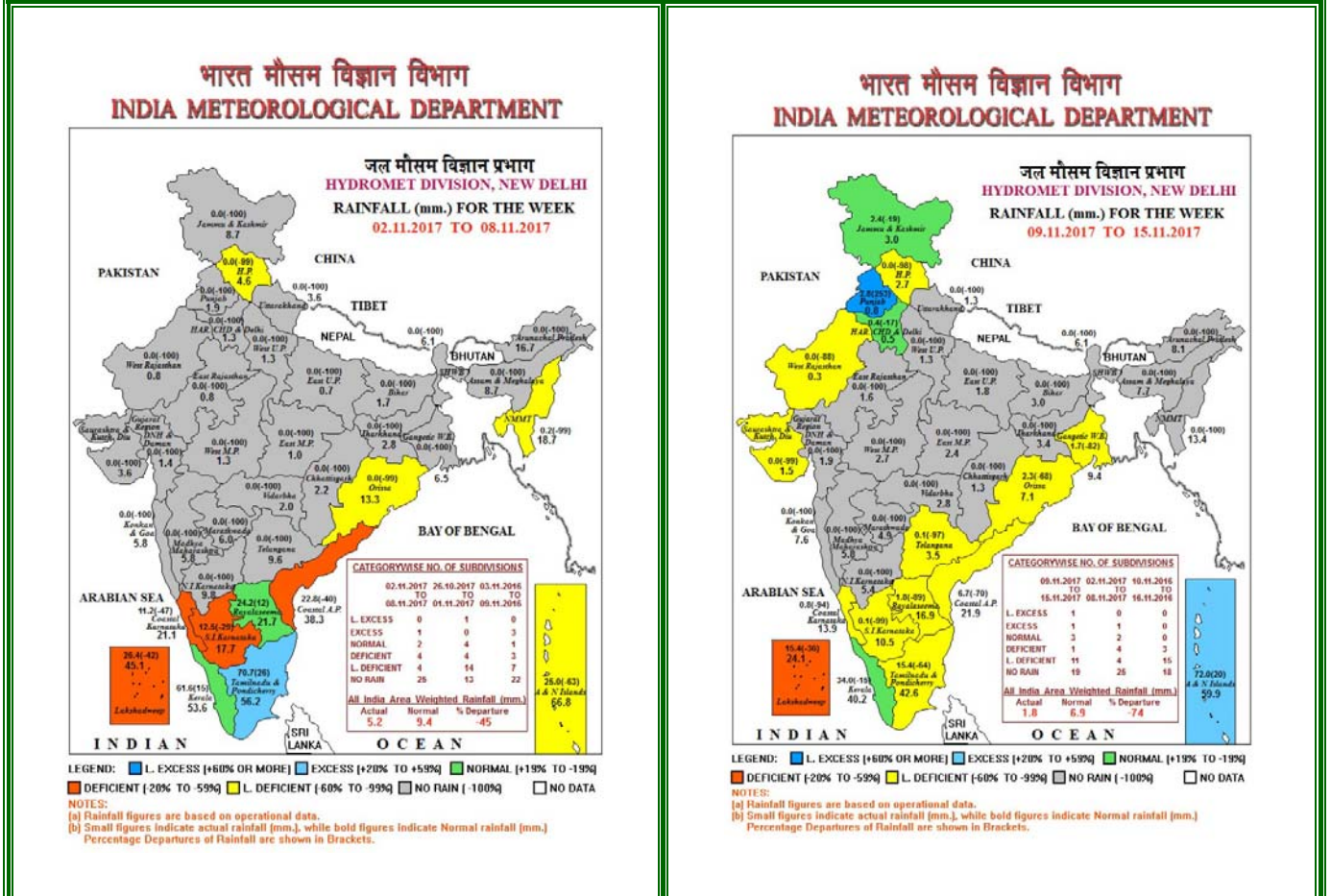
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India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (2nd November to 15th November 2017)



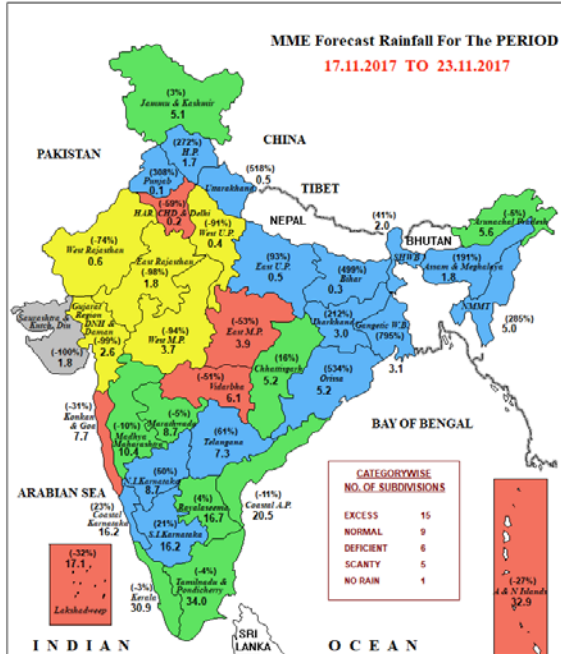
- Normal or above normal rainfall occurred during last two weeks in Kerala.
- Normal or above normal rainfall occurred in either of the last two weeks in Tamil Nadu, Rayalaseema, Andaman & Nicobar Islands, Jammu & Kashmir, Punjab and Haryana, Chandigarh & Delhi.
- Below normal rainfall/no rain occurred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

Extended Range Forecast System

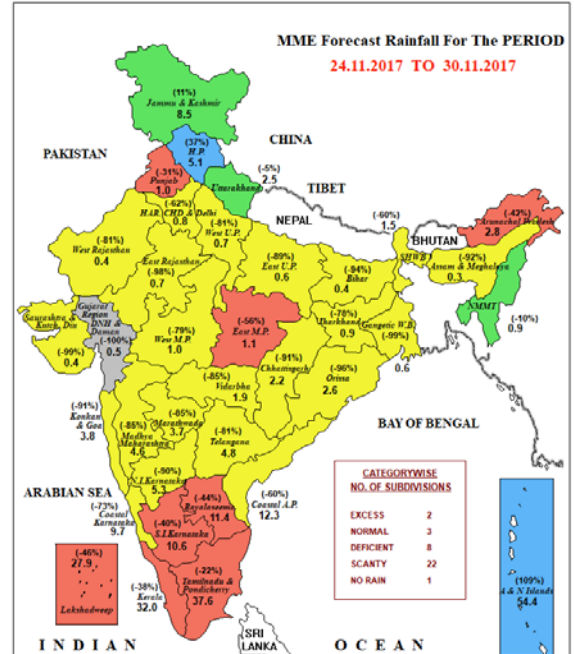
Subdivisionwise rainfall forecast maps for the next 2 weeks (IC – 15 November)

(17th to 30th November 2017)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

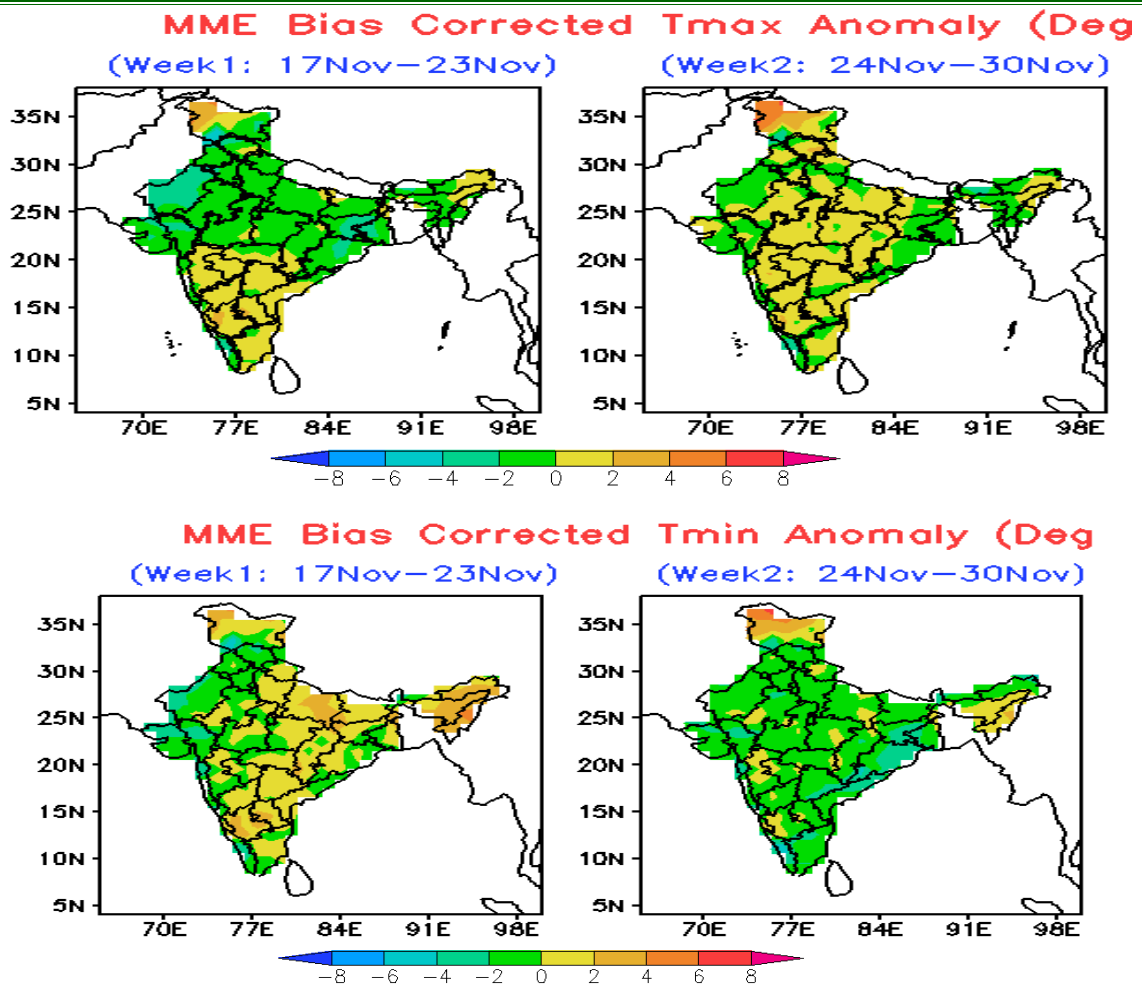


भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



- Extended Range Forecast (ERF) indicates that, during week 1 (17 – 23 November), rainfall during the week will be normal to above normal over many met subdivisions over southern peninsula, eastern India (Odisha, Jharkhand, Uttar Pradesh, Bihar and Gangetic West Bengal), north-eastern states and some met subdivisions of northern India (Punjab, Himachal and Uttarakhand).
- During week 2 (24 – 30 November), mostly below normal rainfall is expected over India, except few parts of extreme north India (Himachal Pradesh, Uttarakhand and Jammu & Kashmir).

Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) for next 2 weeks (IC – 08 November)
(17th to 30th November 2017)



Maximum Temperature(Tmax):

- Week 1(17 – 23 November): Below normal Tmax is expected over north India and adjoining central India during the week and above normal Tmax over southern peninsula.
- Week 2 (24 – 30 November): Most of central India is expected to get normal to above normal Tmax during the week.

Minimum Temperature (Tmin):

- Week 1(17 – 23 November): Tmin is expected to be below normal over Northwest parts of India and rest of the regions will be above normal during the week.
- Week 2 (24 – 30 November): Most parts of India Tmin will be below normal during the week.

Strategic Agricultural Planning based on rainfall during next two weeks till

30th November 2017

Agromet Advisories

Tamil Nadu

Rainfall Situation

Rainfall received during the period of 01 October to 15 November 2017 over Tamil Nadu is 250.6 mm, which is 12% deficit, compared to the normal. The extended range weather forecast provided for next two weeks [17 to 23 November (week-1) and 24 to 30 November (week-2)] for Tamil Nadu is normal in week-1 and below normal in week-2.

- As normal rainfall is forecasted for the 1st week, application of irrigation should be avoided.
- The present weather condition is conducive for the spreading of sucking pests in sorghum and yellow mosaic virus in pulses. To control sucking pests, spray Dimethoate 30 EC @ 500 ml/ha during the second week, as deficit rainfall is forecasted. To control yellow mosaic virus, spray Dimethoate 30 EC @ 500 ml / ha or Thiamethoxam 75 WS @ 1 g/litre and repeat after next 15 days, if necessary.
- As moderate to high cloud cover is expected in the coming days, leafhopper incidence may occur in cotton. To control this, spray Imidacloprid 200 SL @ 100 ml / ha on clear days.

Karnataka

Rainfall Situation

Rainfall received during 01 October to 15 November 2017 over different meteorological subdivisions of Karnataka are follows: South Interior Karnataka: 190.8 mm (7% surplus); North Interior Karnataka: 149.3 mm (16% surplus) and Coastal Karnataka: 199.3 mm (12% deficit). The extended range weather forecasts provided are: Above normal and below normal for all the three subdivisions during week-1 and week-2, respectively.

South Interior Karnataka

- Deficient rainfall is forecasted for 2nd week. Sun drying and winnowing of harvested kharif crops like finger millet, maize and groundnut may be undertaken in second week.
- Due to cloudy weather, pod borer is noticed, which can be controlled by spraying indoxycarb 14.5 SC @ 0.5 ml/litre or spynosad 45 SC @ 0.15 ml/litre.
- Farmers can take up sowing of short duration *rabi* crops like finger millet (Indaf-9, GPU- 45 & 66, PR-202); cowpea (KBC-1, TVX-944 and PKB-4 for vegetable purpose); sunflower (Morden, KBSH-1,41,44 & 52) and Niger (KBN-1, No-71). On black soils, bengal gram (Annigeri-1, J.J-11, KAK-2, Vishal) is recommended.

Maharashtra

Rainfall Situation

Rainfall received during the period of 01 October to 15 November 2017 over meteorological subdivisions of the state are: Vidarbha: 57.5 mm (11% deficient); Marathwada: 100.4 mm (20% surplus); Madhya Maharashtra: 112.8 mm (23% surplus) and Konkan: 157.0 mm (16% surplus). The

extended range weather forecast provided for all the subdivisions of state Maharashtra are: Vidarbha, and Konkan: below normal for both weeks; Madhya Maharashtra and Marathwada: normal for week-1 and below normal for week-2 respectively.

Konkan and Goa

- Due to dry weather condition, there is possibility of incidence of hopper in mango and tea mosquito bug in cashew. If infestation is seen, farmers are advised to spray Deltamethrin 2.8% E.C. @ 9 ml per 10 liter of water along with sticking agent (to control mango hopper) and spray Lambda Cyhalothrin 5% E.C. @ 6 ml per 10 liter of water along with sticking agent (to control tea mosquito bug in cashew).
- Install methyl ugenol “Rakshak” trap @ 4 nos. per ha in cucurbitaceous vegetable crops, for effective control of fruit fly.

Madhya Maharashtra

- As normal rainfall is forecasted for week-1, farmers are recommended to take up sowing of *rabi* crops.
- Hoeing is recommended in uplands to control weeds and conserve soil moisture.
- Present weather condition favors incidence of thrips in chili. As a control measure, spray diamethoate 30% concentrate @ 15 ml/10 litre of water or Lambda Cyhalothrin 5% concentrate @ 6 ml per 10 litre of water, alternately during week-2.
- Present cloudy weather favors incidence of leaf eating caterpillar, army worm and stem borer etc in sorghum and other *rabi* crops. To control these pests, spray quinolphos 25 EC @ 15-20 ml in 10 lit of water during week-2.

Vidarbha

- As below normal rainfall is forecasted for next two weeks, need based irrigation is advisable for *rabi* crops and orchards.
- Farmers can take up delayed sowing of irrigated wheat with following cultivars - AKW-381, HI-977, AKW-1071(Purna).
- In pigeonpea, to control pod fly/ pod borer, undertake first spray at bud initiation to 50% flowering stage with neem seed extract 5% or Quinalphos 25% @ 28 ml. Avoid pod picking till 10 days after insecticide spray.
- In eastern Vidarbha, linseed (PKV NL- 260, NL-97) and Lathyrus (Ratan, Mahatora) are suitable for *rabi*, where residual soil-moisture is available in harvested paddy fields.

Marathwada

- Prevailing weather conditions are favorable for incidence of stem borer in *rabi* sorghum. To control it, spray Quinalphos 25 EC @ 20 ml or Cholorpyriphos @ 25 ml per 10 liter of water during week-2.
- Farmers are recommended to undertake intercultural operations such as light hoeing and weed management in *rabi* sunflower.

Rajasthan

Rainfall Situation

West Rajasthan and East Rajasthan have not received rainfall over the period 01 October to 15 November 2017. The extended range weather forecast provided for Rajasthan is below normal for both the subdivisions during week-1 and 2.

- Farmers are advised for hoeing and thinning in mustard, which is 15 to 20 days old and keep plant to plant distance of 10-20 cm. Top dressing of 30 kg Nitrogen along with irrigation can be done, where the crop has attained 30-35 days.
- It is optimum time for sowing of wheat as the mean temperature is around 20 °C, which is suitable for wheat to get higher yield. The recommended varieties are Raj-4037, Raj-3077, Raj- 3765, HD-2864, GW-322, Raj-1555, HI-8498, HI-1544 and Lok-1.
- Weather conditions are optimum for transplanting of cauliflower, cabbage and chilly seedlings.

Jharkhand

Rainfall situation

Rainfall received during the period of 01 October to 15 November 2017 over Jharkhand is 104.0 mm, which is 27% surplus, compared to the normal. The extended range weather forecast provided for Jharkhand is above normal on week-1 and below normal on week-2.

- Farmers are advised to go for sowing of wheat (recommended varieties are K.-9107, H.U.W.-468 or Birsa genhu-3).
- Sowing of barley, linseed, chick pea and pea can also be taken up. Farmers are recommended to use the certified seeds and seed treatment with fungicides like Bavistin @ 2 gm per kg of seed to avoid seed borne diseases.
- Farmers, having assured irrigation facilities are recommended to cultivate potato. Recommended varieties are: Kufri Ashoka, Kufri Pukhraj, Kufri Lalima, Kufri Pushkar and Kufri Kanchan.
- In the prevailing weather condition, there is a chance of powdery mildew disease incidence in green pea, in which white powder appears on leaves and stem. To control this disease, spray Sulfex @ 3 gm per liter of water during week 2.

West Bengal

Rainfall Situation

Rainfall received during the period of 01 October to 15 November 2017 over West Bengal is: Gangetic West Bengal: 226.9 mm (54% surplus); Sub-Himalayan West Bengal: 167.3 mm (normal). The extended range weather forecast provided for both the subdivisions: above normal for week-1 and below normal for week-2.

- Upcoming week is suitable for sowing of capsicum. For cultivation of one bigha of land, two seedbeds (3m x 1m) are sufficient for which, 50 gm seeds are required.

Assam

Rainfall Situation

Rainfall received during the period of 01 October to 15 November 2017 over Assam is 216.9 mm, which is 26% surplus, compared to the normal. The extended range weather forecast provided for Assam is above normal for week-1 and below normal for week-2.

- The prevailing weather condition and forecasted rainfall is suitable for *rabi* sowing. Farmers are advised to take up field preparations.
- Recommended crops and varieties are,
 - Boro rice: Mahsuri, IR-50, Dinanath, Bishnuprasad, Jyotiprasad, Kanaklata and Dinanath may be sown in the nursery bed during this month.
 - Rapeseed & mustard: Apply lime @ 65.5 kg/ha at least 15 days prior to sowing of rapeseed or mustard seeds, and the varieties are M-27, TS-36, TS-38 etc.
 - Potato: Kufri Chandramukhi, Kufri Jyoti, Kufri Megha, Kufri Badshah, Kufri Sindhuri.
 - Tomato: Punjab Chhuhara, Arka Alok, Pusa Rubi, Sioux, Punjab Keshri, Arka Abhijit, BT-1

Haryana

Rainfall Situation

Rainfall received during the period of 01 October to 15 November 2017 over Haryana is 0.4 mm, which is 98% deficit, compared to the normal. The extended range weather forecast provided for Haryana is below normal for both the weeks.

- Wherever assured irrigation is available, farmers are advised to take up sowing of barley with varieties viz., BH 393, BH 902, BH885 and BH 986. Before sowing, seeds should be treated with Bavistin or Vitavex 2.0 g per kg of seed.
- Farmers are advised for sowing of fodder berseem (recommended varieties are: Hisar Berseem 1, Hisar Berseem 2).
- Farmers are advised to go for sowing of wheat, where assured irrigation is available. The recommended varieties are: WH 283, WH 542, DBW 17, WH 711 and WH 1105. Before sowing, seeds should be treated with Bavistin or Vitavex 2.0 g per Kg of seed.

Jammu

Rainfall Situation

Rainfall received during the period of 01 October to 15 November 2017 over Jammu and Kashmir is 2.7 mm, which is 95% deficit compared to the normal. The extended range weather forecast provided for J&K is normal for both the weeks.

- Farmers are recommended for sowing of wheat (recommended varieties: PBW-550, HD-2967 under irrigated conditions and PBW-644, PBW-396 and WH-1080 under rainfed conditions).
- Ideal climatic condition exists for sowing of barley (var. Ratna, Jyoti and Sonu) with seed rate 100 kg/ha in rainfed areas.
- Sowing of mustard (cv. RSPR-01, Kranti) can be taken up in irrigated areas, whereas under

rained areas, sowing of RSPR-03 can be carried on fields having conserved moisture.

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