



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

Validity: 25 January to 08 February, 2018

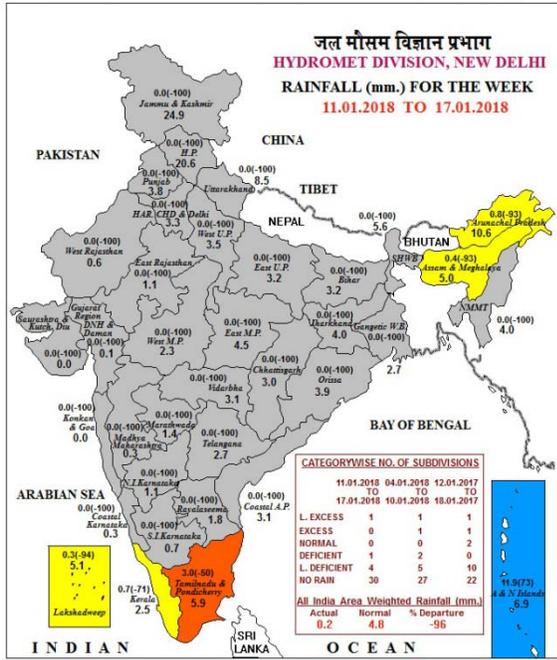
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&
Earth System Science Organization
India Meteorological Department

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (11th to 24th January 2018)

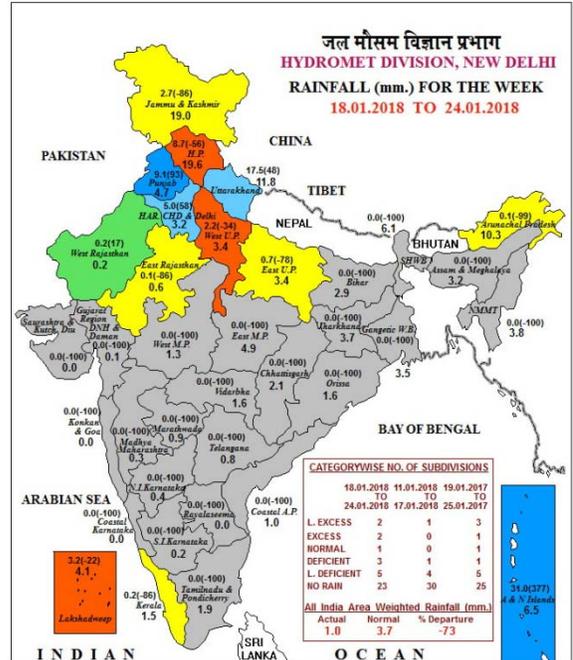
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



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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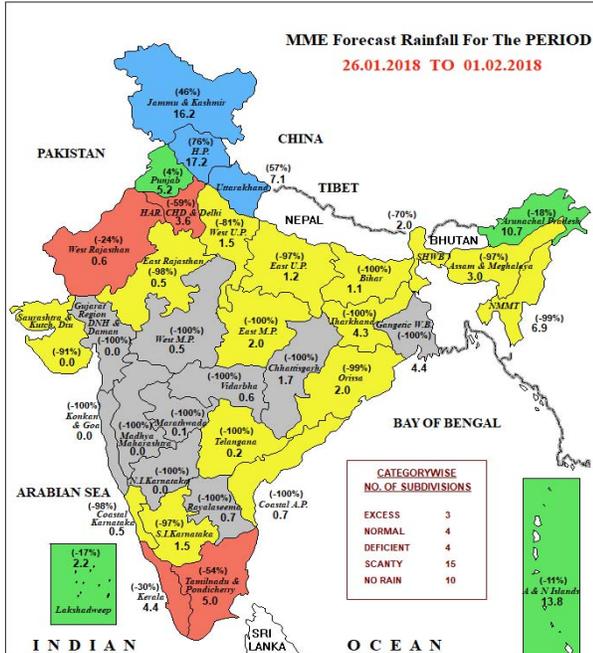
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[b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall occurred during last two weeks in Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the last two weeks in Uttarakhand, Punjab, Haryana-Chandigarh-Delhi and West Rajasthan.
- Below normal rainfall/no rain occurred during last two weeks over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC –24 January) (26th January to 08th February 2018)

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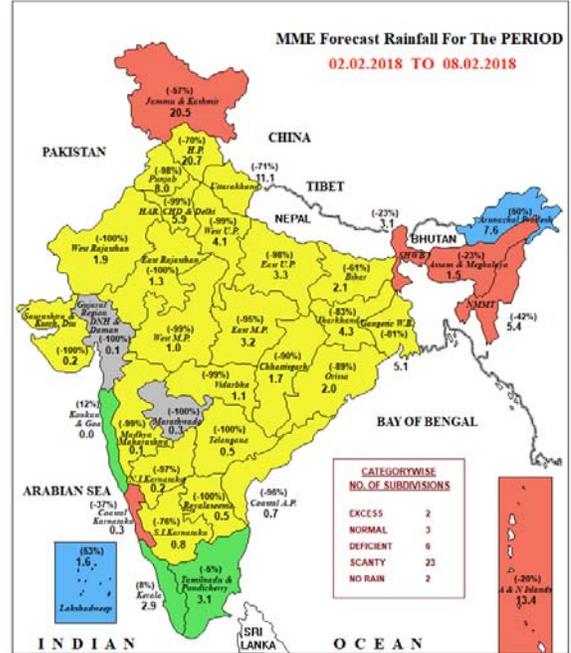


LEGEND: ■ EXCESS [+20% OR MORE] ■ NORMAL [+19% TO -19%] ■ DEFICIENT [-20% TO -59%]
■ SCANTY [-60% TO -99%] ■ NO RAIN [-100%] ■ NO DATA

NOTES:

- [a] Rainfall figures are based on MME Forecast.
- [b] Bold figures indicate Forecast Normal rainfall [mm.]
- [c] Percentage Departures of Rainfall are shown in Brackets.

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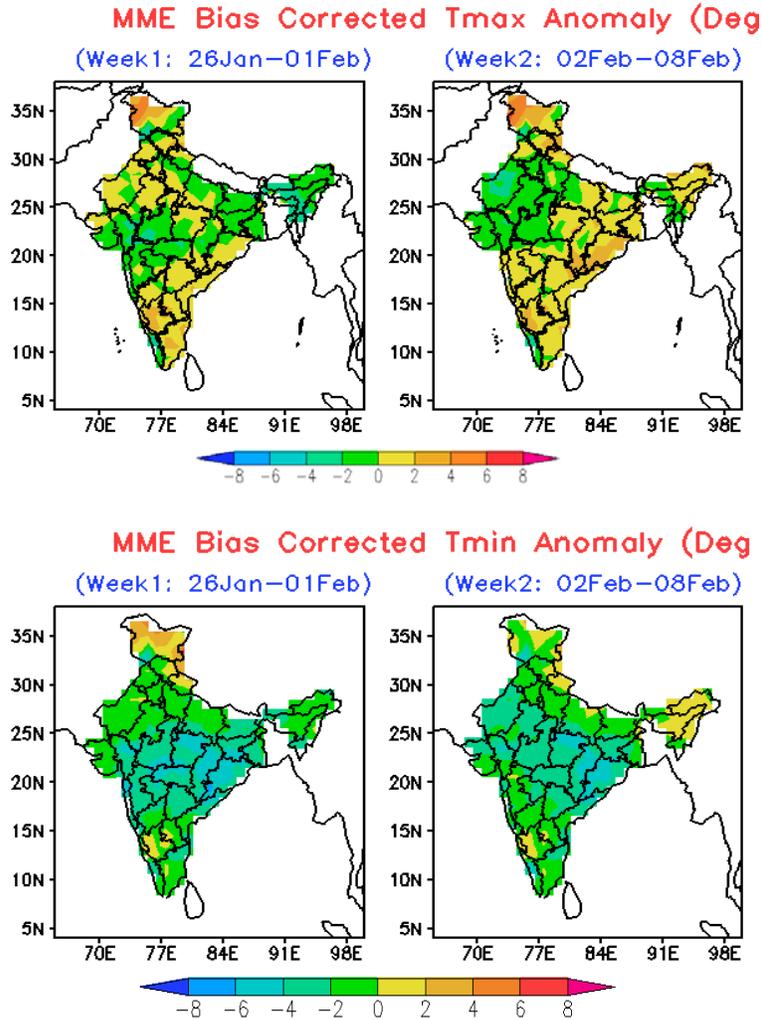
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Extended Range Rainfall Forecast

- **Week 1 (26.01.2018 to 01.02.2018):** Northern mountain regions (Jammu & Kashmir, Himachal Pradesh and Uttarakhand) and adjoining regions will receive rainfall during week-1.
- **Week 2 (02.02.2018 to 08.02.2018):** Some pockets over south Peninsula is likely to get rainfall.

**Maximum and Minimum temperatures anomaly ($^{\circ}$ C) forecast for next 2 weeks
(IC – 24 January) (26th January to 08th February 2018)**



Tmax (Maximum Temperature)

- **Week 1 (26.01.2018 to 01.02.2018):** Mostly above normal Maximum Temperature over the country except over southern and eastern parts of the country, whereas Tmax is likely to be below normal over Northeast states and adjoining eastern region of the country.
- **Week 2 (02.02.2018 to 08.02.2018):** Maximum Temperature is likely to be above normal over the country except parts of Northwest India.

Tmin (Minimum Temperature)

- **Week 1 (26.01.2018 to 01.02.2018) and Week 2 (02.02.2018 to 08.02.2018):** Minimum Temperature will be below normal over the country except part of extreme north and parts of Northeast states.

Strategic Agricultural Planning based on rainfall during next two weeks till

8th February 2018

Agromet Advisories

Karnataka

Rainfall Situation

No rainfall was received during the period of 01 to 24 January 2018 over different meteorological subdivisions of Karnataka. The extended range weather forecast provided for next two weeks over all the subdivisions of Karnataka are below normal for both the weeks.

North Interior Karnataka:

- As below normal rainfall is forecasted for next two weeks, take up plant protection measures in late sown chickpea, safflower and horticultural crops. Farmers are advised to take up harvesting, threshing and drying of pigeon pea, early sown chickpea and safflower crops. Harvesting of sugarcane and picking in cotton may be also be taken up.
- Provide de-worming medicine to livestock under the supervision of the veterinary Doctor. Vaccinate (ET vaccine) sheep and goats against Enterotoxaemia. For milch animals, follow schedule of 1 kg feed + 50 g mineral mixture for milk yield of 2 litres.
- Take up intercultivation and earthing up of rows and keep the crops free from weeds. Provide irrigation to *rabi* crops wherever possible.

South Interior Karnataka:

- Provide protective irrigation to *rabi* crops, wherever possible.
- Prevailing dry spell situation is favorable for higher rate of flowering in mango. At the same time, this weather condition is congenial for incidence of powdery mildew disease. Spray Lamda Cyhalothrin 5EC @ 0.5 ml/ litre of water or sulphur dust (SULTAF) 80 W @3g/litre.

Andhra Pradesh

Rainfall Situation

No rainfall was received during the period of 01 to 24 January 2018 over meteorological subdivisions of Andhra Pradesh. The extended range weather forecast provided for all the meteorological subdivisions of the state are below normal for both the weeks.

- Leaf folder and stem borer incidence is reported in paddy fields of southern zone and scarce rainfall zone. Farmers are advised to spray chlorpyrifos 2.5 ml or cartap hydrochloride @ 2 g/litre of water, Flubendiamide@0.2ml/litre of water, respectively.
- Blast incidence is reported in paddy fields of scarce rainfall zone. Farmers are advised to spray tricyclozole@0.6g/l or Isoprothiolane@1.5ml/l of water.
- In southern and scarce rainfall zones of Krishna district, pinkboll worm incidence is reported in cotton crops at 3rd and 4th picking stage. Farmers are advised to monitor pink boll worm incidence by

observing rosette flowers and sampling of green bolls regularly. If Incidence is noticed, immediate spraying of Quinalphos @ 2ml/lit or Chlorpyrifos @ 2.5 ml/litre or Thiodicarb @1g/litre is recommended. Destroy rosette flowers and remove the dropped squares, dried flowers and prematured bolls to suppress the pest population periodically.

- Wherever incidence of pinkboll worm is noticed above ETL, farmers are also advised not to prolong the crop duration and leave cattle or sheep/goat to graze on the leftover cotton stalks to avoid further carryover of the pest.

Maharashtra

Rainfall Situation

No rainfall was received during the period of 01 to 24 January 2018 over different meteorological sub divisions of the state. The extended range weather forecast provided for next two weeks over subdivisions of Maharashtra: no rainfall during week-1 over all subdivisions; below normal for Vidarbha & Madhya Maharashtra and no rainfall over Konkan and Marathwada during week-2.

Konkan

- If incidence of mango hopper is noticed, spray Imidacloprid 17.8% SL. @ of 3 ml per 10 litre of water.
- If incidence of aphids and leaf minor is noticed in pulse crops, spray 10 ml Dimethoate or Lambda cyhalothrin 5% EC @ 6ml. per 10 litre of water at an interval of 15-20 days.
- If incidence of hopper, aphids and thrips is observed in rabi vegetable nursery viz., brinjal, tomato, cabbage, chilli, knol knol etc., apply Malathion @ 20 ml or Dimethoate @ 12 ml per 10 litre of water.

Vidarbha

- As dry weather situation prevails, need based timely irrigation is advisable to avoid moisture stress in *rabi* crops/vegetables/orchards. Basin mulching with plant residues (2 to 3 inch) in orchards is advised to improve soil moisture retention by reducing soil evaporation.
- With assured irrigation facility, ensure seed and fertilizer/biofertilizer inputs for cultivation of summer groundnut on broad bed & furrow (BBF). The recommended sowing period is second fortnight of January onwards, when optimum minimum temperature (>15 °C) for germination prevails. Summer groundnut varieties recommended for the region include TAG-24 and TG-26. Seed treatment with Trichoderma @ 5 g, Rhizobium inoculation @ 25 g and PSB @ 25 g per kg of seed is advised.
- With assured irrigation facility, summer sesame can be sown up to first fortnight of February. Varieties recommended for the region include AKT-101 and NT-11-91. Seed treatment with Thiram or Carbendazim @ 3 g/kg seed and bio-fungicide *Trichoderma viride* @ 4 g/kg seed is recommended.
- Recommended varieties for cultivation of watermelon during this period include Asahi Yamato, Sugar baby, Arka Manik and Pusa bedana. Recommended muskmelon varieties are Pusa Sharbati, Pusa Madhuras, Hara Madhu.

Chhattisgarh

Rainfall situation

No rainfall was received during the period of 01 to 24 January 2018 over Chhattisgarh. The extended range weather forecast provided over Chhattisgarh is below normal for both the weeks.

- Intercultural operations in wheat are recommended as the crop is in tillering stage.
- If yellow mosaic disease is observed in pulse crops, destroy the affected plants and spray Metasystox or Rogar insecticide @ 1 ml/litre water.
- Provide concentrated feed to cattle mixed with dry and green fodder and ensure for feeding enriched diet having protein, carbohydrate, fat, vitamins etc.

Jharkhand

Rainfall situation

No rainfall was received over Jharkhand during the period of 01 to 24 January. The extended range weather forecast provided over Jharkhand for next two weeks: no rainfall during week-1; below normal during week-2.

- Timely sown pulse crops like pea, lentil, gram etc. are at pod formation stage. If symptoms of pod borer are visible, spray Monocrotophos @ 1 ml per litre of water. However, if the farmers are interested to sell green pod of gram/pea, then spray bio-insecticides like Delfin @ 2 g per litre of water.
- Farmers are advised to stop irrigation and remove the upper leaves/parts (De-haulming) of the potato, 7–10 days before digging. After digging of potato farmers may utilize the field for cultivation of Onion.

Assam

Rainfall Situation

Assam received 3.4 mm of rainfall during the period of 01 to 24 January 2018, which is 65% deficit. The extended range weather forecast provided for Assam: below normal for both the weeks.

- Mustard: Farmers are advised to harvest the rapeseed and mustard crop when 75-80% of siliqua turn yellow in colour.
- Banana: irrigation should be provided to avoid moisture stress as no rainfall predicted for next two weeks.

Himachal Pradesh

Rainfall Situation

Rainfall received during the period of 01 to 24 January over Himachal Pradesh is 0.2 mm. The extended range weather forecast provided over Himachal Pradesh for next two weeks is: above normal during week-1; below normal for week-2.

- As below normal rainfall is forecasted, the farmers are advised to irrigate their crops, wherever irrigation facilities are available.
- Cold wave condition is likely to prevail in low lying and valley areas of the state. Farmers are advised to protect the animals from low temperature conditions likely to prevail during morning and evening hours.

Uttarakhand

Rainfall Situation

No Rainfall was received during the period of 01 to 24 January over Uttarakhand. The extended range weather forecast provided over Uttarakhand for next two weeks is: above normal during week-1; below normal for week-2.

- Planting of temperate fruit crops like apple, pear, plum, wall nut etc. can be started. Basin formation and training/pruning may be undertaken in old orchards.
- To control the late blight of potato, Mancozeb @ 2.5g/litre or copper oxichloride @ 3g/litre of water can be sprayed.

Punjab

Rainfall Situation

No Rainfall was received during the period of 01 to 24 January 2018 over Punjab. The extended range weather forecast provided for Punjab is: above normal during week-1; below normal for week-2.

- Sowing of Sunflower varieties like PSH 1962, DK 3849, PCH 996, PSH 569, PSFH 118 and SH 3322 can be done.
- Farmers are advised to do regular surveillance of field for late blight of potato and if symptoms appear, spray the crop with Indofil M-45/Markzeb/Kavach @ 500-700 g in 250-350 litres of water per acre. For judicious use of pesticides, follow DSS for management of late blight of potato at PAU website.

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