



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

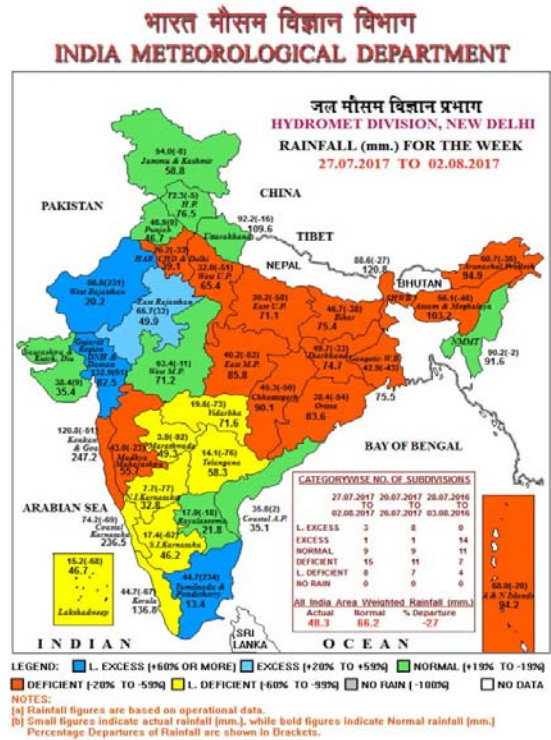
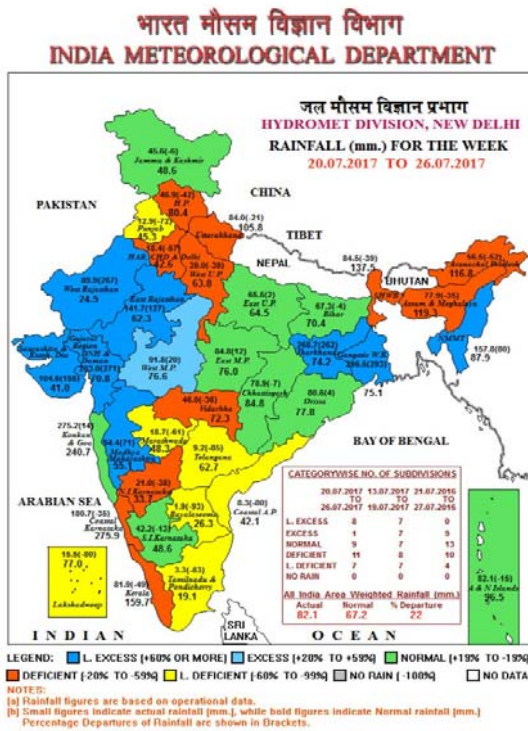
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Realized Rainfall and Extended Range Forecast

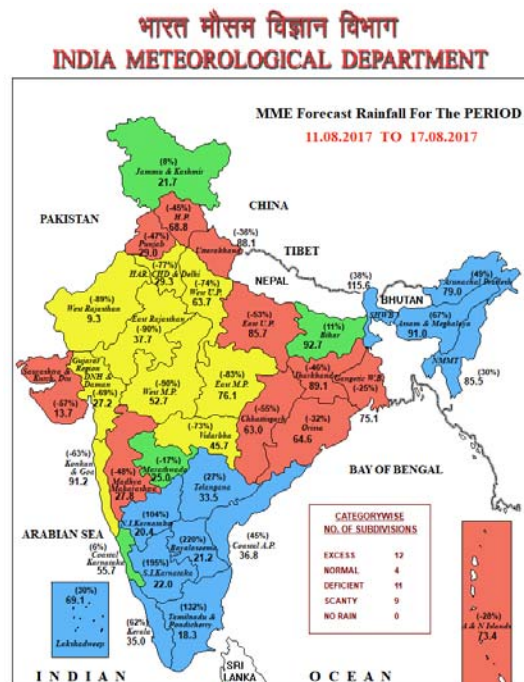
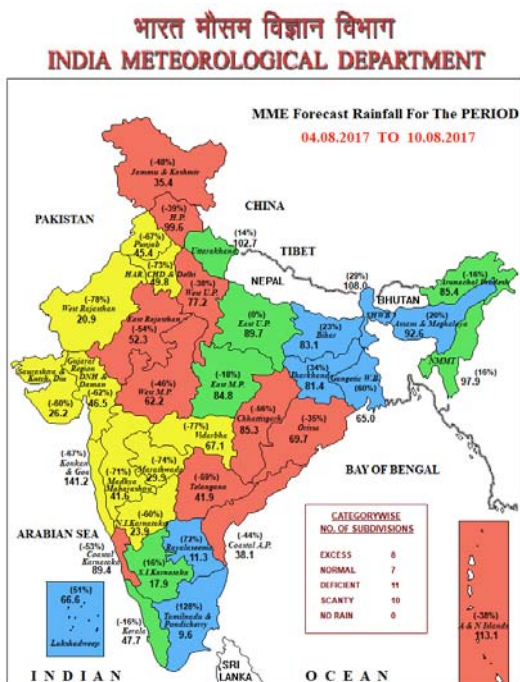
Realized Rainfall (20th July to 2nd August 2017)



- Normal or above normal rainfall occurred during last two weeks in Jammu & Kashmir, Rajasthan, Gujarat, Madhya Pradesh, Chhattisgarh, Odisha, Konkan & Goa, Madhya Maharashtra, Nagaland, Manipur, Mizoram, Tripura and South Interior Karnataka.
- Normal or above normal rainfall occurred in either of the last two weeks in Himachal Pradesh, East Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Marathwada, Vidarbha, Telangana, Coastal Andhra Pradesh, Coastal Karnataka and North Interior Karnataka.
- Below normal rainfall occurred in the last two weeks over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Kerala and Tamil Nadu.

Extended Range Forecast System

Subdivision wise rainfall forecast maps for the next 2 weeks (IC = 2 August) (04th to 17th August 2017)



- Extended Range Forecast (ERF) indicates that, during week 1 (04 August - 10 August), associated with weak pressure gradient and weak monsoon flow the rainfall during the week will be subdued over most of central and Northwest India and also over the country as a whole. The rainfall activity will be mainly over the parts of southern peninsula, Northeast states and foothills regions of the Himalaya.
- During week 2 (11 August - 17 August), weak spell of monsoon rainfall over the central India and northwest India to continue during the week, whereas, over the south peninsula and north-eastern states, monsoon will be active. Rainfall situation in the country as a whole will remain subdued.

Strategic Agricultural Planning based on rainfall during next two weeks till 17th August

Agromet Advisories

Deficit rainfall areas

Kerala

The state as a whole has received 977 mm rainfall so far during the season, which is 32% deficit compared to the normal rainfall during the season. According to the extended range weather forecast provided by IMD, normal and excess rainfall is predicted over Kerala during August 4-10 and 11-17, respectively.

- Paddy: Chances of stem borer in paddy. Place 10 pieces of 2 CC trichocards in different corners of field under leaf. In severe condition apply Flubendamide @ 2 ml/10 L.
- Coconut: As rainfall is forecasted during next two weeks, there is a chance for incidence of bud rot. As a prophylactic measure to control bud rot, apply 1% Bordeaux mixture in the tender leaf axils.
- Banana: There is a chance of sigatoka disease incidence in banana. As a precaution, Spray Pseudomonas 20g/L In case of severe attack spray 1 g Bavistin by mixing it with gum in 1 litre of water on lower surface of leaf.
- Coffee: Leaf rust disease may become severe due to increase in relative humidity. Apply 0.5% Bordeaux mixture as a prophylactic measure or plantvax 20 EC @ 1-2 ml per litre to control the disease.

Karnataka

All the three meteorological subdivisions of the state have received deficit rainfall so far during the season [South interior Karnataka: -36%; North Interior Karnataka: -17% and Costal Karnataka: -21%]. The extended range weather forecast provided for next two weeks (4-10 and 11-17 August) for different subdivisions of Karnataka are: South Interior Karnataka: Normal and Excess; North Interior Karnataka: Large deficit and Large excess; Costal Karnataka: Deficit and Normal, respectively.

South Interior Karnataka

- Postpone sowing operation until soaking/sufficient rainfall received.
- Wherever, the long duration crops like red gram, and castor were sown, undertake earthing up operation in addition to the above agronomic measures.
- Since there was a deficit rainfall during last two months, make use of farm pond water for protective irrigation

Costal Karnataka

Coconut:

- Infestation of rhinoceros beetle and red palm weevil is noticed in Uduppi district. Treat the affected plants with Carbaryl solution at 4 g/litre to bored holes and later fill with mud.

- As rainfall is forecasted during 11-17 August, there is a chance for incidence of bud rot. Scrape the infected part and apply a mixture of metalaxyl plus mancozeb at 2 gram per liter

Maharashtra

Rainfall received in major meteorological sub-divisions of the state are as follows:

Vidarbha – 402 mm (22% deficit); Marathwada – 262 mm (24% deficit); Madhya Maharashtra- 480 mm (17% surplus) and Konkan- 1970 mm (3% surplus)

The extended range weather forecast provided for next two weeks (4-10 and 11-17 August) for different subdivisions of Maharashtra are: Vidarbha (largely deficit both the weeks); Marathwada (largely deficit and normal); Madhya Maharashtra (largely deficit and deficit) and Konkan (largely deficit both the weeks)

Vidarbha

- With prevailing rainless weather, undertake timely weeding/hoeing in earlier sown kharif crops.
- After the receipt of soaking rainfall, delayed sowings/unsown areas can be accommodated with suitable crops/crop varieties/intercropping (as mentioned below) in the western/central Vidarbha districts (Akola, Buldana, Amravati, Washim, Yavatmal, Wardha and Nagpur)
 - Pigeonpea: PKV- Tara, BSMR-736, Asha (ICPL 87119) and C-11 with 60x20 cm spacing.
 - Under delayed sowing condition, intercropping systems include pearl millet + pigeonpea (2:1 or 4:2), sunflower+pigeonpea (2:1).
 - Alternative crops include pearl millet (PKV Raj, Shradha, Saburi, Pratibha), sesame (AKT64), sunflower(PDKVSH-952, KBSH-44, KBSH-1, DRSH-1, PKV SF-9, PKVSH-27) and castor (AKC-1, GCH-4, GCH-5, Dipti (DCH-32), Deepak (DCH-177)).
- Application of protective irrigation (sprinkler) is advisable in areas where crops are under moisture stress due to subdued rainfall activity causing midday wilting symptoms, particularly in shallow soils.
- Foliar spray of 2% KNO₃ (potassium nitrate) is advisable in soybean crop.

Marathwada

- Cotton: Mulching should be done in cotton crop. During water stress condition in cotton crop a spray of Potassium Nitrate @ 200 gm per 10 liter of water is advised.
- Pigeonpea: During water stress condition in pigeonpea crop, take a spray of *Potassium Nitrate* @ 200 gm per 10 liter of water.
- Apply irrigation with the help of drip irrigation system in orchards.

Excess rainfall areas

Assam

The state has received 872 mm rainfall so far during the season (20% deficit). Dry conditions and

flood conditions are prevailing in parts of the state. Large excess rainfall is forecasted for both the weeks over Assam.

Agromet advisories for post-flood condition are:

- Late and staggered planting with the old seedlings (50-60 days old seedlings) of the varieties like Profulla and Gitesh (If the field is heavily damaged) of Sali rice.
- Direct seeding with the photo insensitive short duration varieties like Luit, Kapilee (90-95 days). The sprouted seeds of these varieties can be directly seeded in the field by broadcasting method
- Post flood management of sugarcane: Hoeing between lines for aeration in root zone after flood
- Control measures should be taken against attack of armyworm in flood affected areas using insecticides as well as bird trapping

For areas experiencing long dry spell condition:

- Repairing of bunds in paddy fields for standing water retention
- Weeding to avoid unnecessary water loss
- Applying of mulching material in upland crops to reduce evaporative loss of soil moisture.
- Spraying of 2% urea once water stress is eased for quick revival of the crop.

Gujarat

Flooding and water logging condition due to heavy rainfall has vastly damaged early sown crops mainly in Saurashtra, Kutch and North Gujarat regions. Only Tapi district has deficient rainfall condition compared to its normal rainfall.

Largely deficit rainfall is forecasted for Gujarat region for both the weeks; largely deficit and deficit for Saurashtra & Kutch region during 4-10 and 11-17 August, respectively.

If the first crop failed due to flood or water logging condition, following crops can be considered for sowing.

- Bajra: GHB-538, GHB-719, GHB-757
- Sesame: Sesamum Guj-1, 2, 10
- Sunflower: Modern, EC-68414, Guj sunflower-1,
- Jowar: Jowar grain Gj-35,36,37
- Green Gram: GM-4, K-851, MEHA
- Bidi Tobacco: GT-1, 4, 5, 9

Rajasthan

West Rajasthan has received 118% excess rainfall compared to the normal so far during the season.

The extended range weather forecast provided for next two weeks (4-10 and 11-17 August) for different subdivisions of Rajasthan are: West Rajasthan (largely deficit for both weeks); East

Rajasthan (deficit and largely deficit)

- Drain out excess rain water where water logging condition prevailed in the field due heavy rainfall.
- In the paddy growing region, if top leaves of plants turned yellow and bottom leaves remained green, farmers may spray zinc sulphate solution (2.5 kg zinc sulphate dissolved in 500 litres of water / ha).
- Top dress urea in maize @ 55 kg/ha where the crop of at 25-30 days, as there is sufficient soil moisture available.
- In soybean, weed management should be done where the crop is at 15-20 days by manual weeding or apply herbicides. The recommended herbicide for the control of weeds in soybean are Imazethapyr @100g/ha or Quizalofop ethyl @ 50g/ha.

The area which have received rains during last week can go for:

- Sowing of guar, sesame and fodder crop, where sowing could not done so far.

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