



# ***National Agromet Advisory Service Bulletin***

**based on**

**Extended Range Weather Forecast**

**Valid for 10<sup>th</sup> to 23<sup>rd</sup> July, 2015**

**Date of Issue: 10<sup>th</sup> July, 2015**

**Issued by**

**Earth System Science Organisation  
India Meteorological Department**

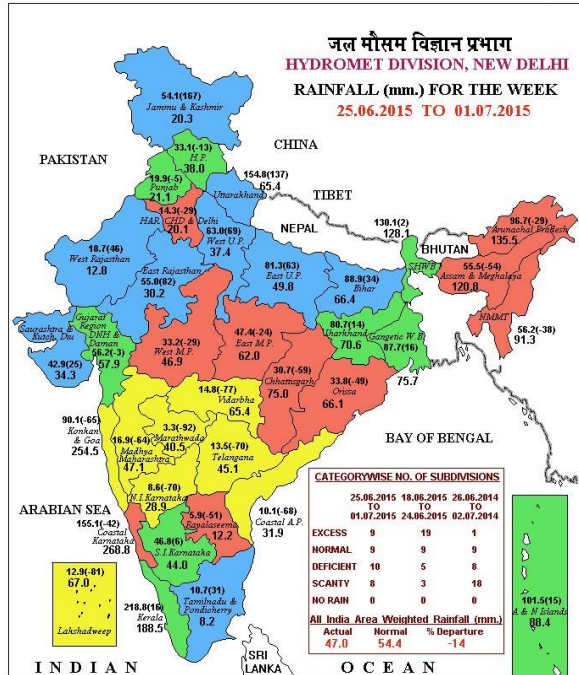
**Indian Institute of Tropical Meteorology, Pune**

**&**

**Indian Council of Agricultural Research  
AICRPAM, CRIDA, Hyderabad**

## Realized Rainfall (25<sup>th</sup> June to 8<sup>th</sup> July 2015)

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

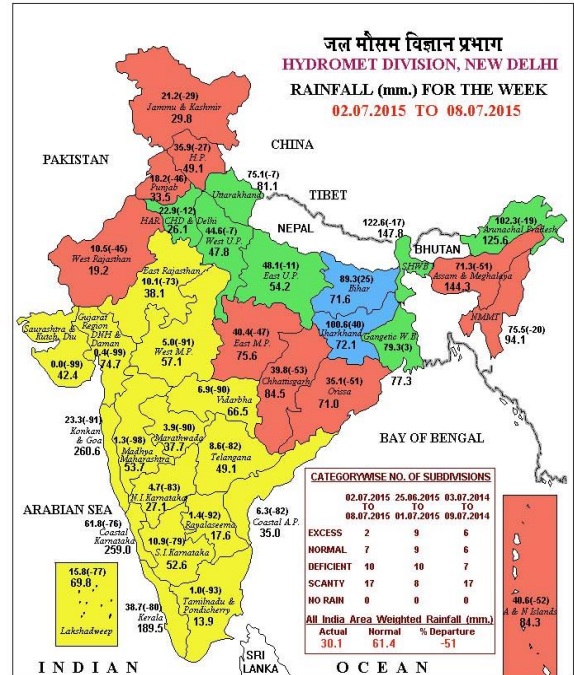


LEGEND: ■ EXCESS (+20% OR MORE) ■ NORMAL (+19% TO -19%) ■ DEFICIENT (-20% TO -59%)  
■ SCANTY (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

**NOTES:**

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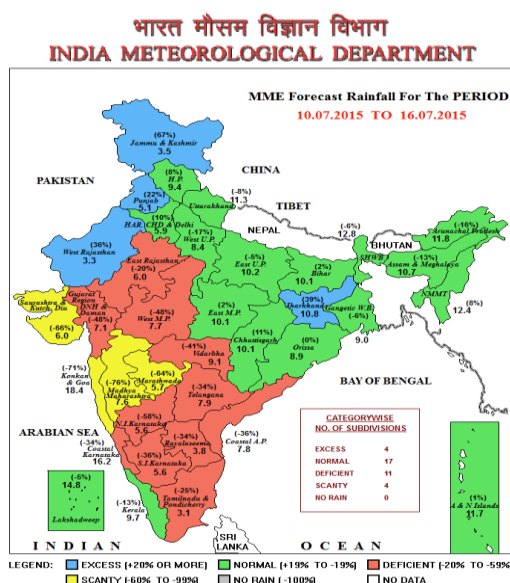
[a] Rainfall figures are based on operational data.  
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall occurred during last two weeks in Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal.
- Normal or above normal rainfall occurred in either of the last two weeks in Kerala, South Interior Karnataka, Tamil Nadu, Gujarat state, Arunachal Pradesh, Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana and Delhi and Rajasthan.
- Below normal rainfall occurred in the last two weeks over remaining parts of the country.

## Extended Range Forecast System

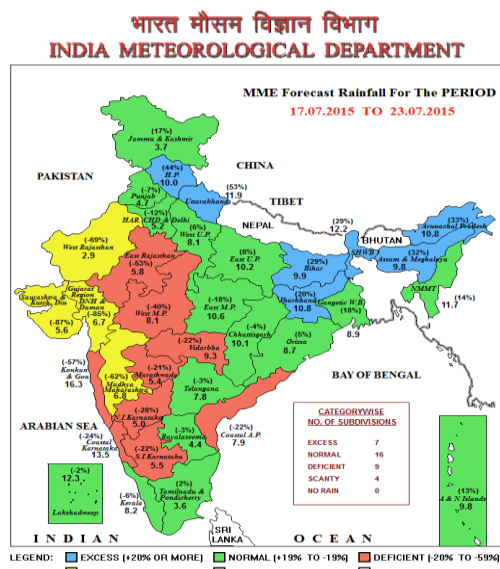
### Subdivisionwiserairfall forecast map for the next 2 weeks (IC = 8 July)

Rainfall forecast (mm/day) (10 - 23 July, 2015)



Notes:

- Rainfall figures are based on MME forecast
- Bold figures indicate forecast Normal rainfall (mm/day)
- Percentage Departures of Rainfall are shown in Brackets



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- Normal or above normal rainfall would occur in next fortnight over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana and Delhi, Uttar Pradesh, Bihar, Jharkhand, East Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Assam & Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura and Kerala.
- Normal or above normal rainfall would occur in either of the next two weeks in Telangana, Rayalaseema, West Rajasthan and Tamil Nadu.
- Below normal rainfall would occur in the last two weeks over remaining parts of the country.

### Agromet Advisories for land preparation and sowing of *kharif* crops

Good rainfall occurred mainly over Uttarakhand, Uttar Pradesh, Bihar, Jharkhand and West Bengal during last fortnight. Rainfall is likely over eastern and northern belt and Gangetic Plains while subdued rainfall activity is likely over central and northwestern India during next fortnight. Increase of rainfall is likely over Northeastern States and parts of south peninsula. However, Western parts of central India, Rajasthan and western coastal states of India will remain mainly dry.

In view of above, following agricultural activities are suggested for the following regions of the country.

Information on seed selection and required inputs like seeds of crops and varieties, sources of seeds etc. can be collected from KVKs, State Departments of Agriculture in the Districts, SAUs,

Kisan Call Centre, seed dealers and other NGOs or agencies.

### **Kerala**

- Paddy: irrigate the field before cracks appear in the soil. Keep the crops weed free
- Coconut: Irrigate only if the soil is dry. Protect soil moisture through trash mulching.

### **North Interior Karnataka**

- Thinning out of excess and weak seedlings in a row and removal of alternate rows in case of moisture stress.
- Intercultivation and weeding in standing crops.
- Mulching in already sown crops.
- Arrangement of inputs for sowing of niger, foxtail millet, mataki, horse gram, castor as well as intercropping of pearl millet + pigeon pea (2:1), pigeon pea + Sesame (1:2 or 2:4), bajra + castor (2:1) in light and medium black soils and bajra, pigeon pea, castor, chilli, sesame, foxtail millet, onion, bajra + castor (2:1), fodder crops in medium black soils.
- In view of subdued rainfall, application of light irrigation in sugarcane (grand growth stage) in North Interior Karnataka.
- Due to less rainfall, maintenance of 2-3 cm water level in transplanted rice field and rice nurseries.
- Pigeon pea: the recommended variety is TS-3R where the crop is susceptible for wilt disease.

### **Rayalaseema**

- Mulching in already sown crops for conservation of soil moisture.
- Due to less rainfall, maintenance of 2-3 cm water level in rice field.
- Postpone sowing of rainfed groundnut in Anantapur district till receipt of sufficient rain and continue sowing in areas with irrigation facilities.
- Keep inputs ready for sowing of contingent crops like pearl millet cowpea, green gram, sunflower (Morden).

### **Telangana**

- Intercultural operation and mulching in already sown crops for conservation of soil moisture.
- Maintain 2-3 cm water level in rice field.
- Instead of cotton, redgram, jowar, keep inputs ready for sowing of sole redgram (Maruti, Lakshmi, PRG 158 etc) adopting closer spacing of 90 x 30 cm.
- Application of irrigation in sugarcane at frequent intervals.
- Foliar spray of 2% KNO<sub>3</sub> during dry spells.
- Supplementary irrigation by using micro-irrigation (sprinklers).

### **Madhya Maharashtra**

- Thinning to maintain plant population and light hoeing to conserve soil moisture.
- Mulching with crop residue to conserve soil moisture and application of light irrigation by drip or sprinkle method wherever water stress condition is prevailing.
- Maintain 2-3 cm water level in rice nurseries.
- Weeding in rice nurseries.
- In view of deficient rainfall situation, wait for sowing of *kharif* crops like bajra, soybean, jowar, groundnut, cotton, green gram and black gram and transplanting of rice and resume sowing and transplanting after receipt of sufficient rains.

- Keep inputs ready for sowing of castor, kulthi, kidney bean, sunflower crop instead of black gram, soybean and green gram in Solapur district.
- Keep inputs ready for sowing of fodder crops like jowar (Ruchira, Phule Amruta, Phule Godhan) and maize (African Tall, Karveer, Rajshree).
- Due to subdued rain in Western Maharashtra Scarcity Zone, early sown cotton might be affected leading to wilting. Prepare the mixture of 1.5 kg Urea + 1.5 kg P<sub>2</sub>O<sub>5</sub> / 100 litres of water and apply 150 to 200 ml of this mixture for the affected plants.

### **Marathwada**

- In view of prevailing subdued rainfall during last few weeks mulching in crops with crop residue to conserve soil moisture and application of light irrigation by drip or sprinkler method, wherever water stress condition is prevailing.
- Light hoeing in soybean crop to conserve soil moisture.
- Application of irrigation to sugarcane by alternate furrow method.
- Spraying of Kaolin @ 8% on banana plants to reduce transpiration losses.
- Weeding in green gram and black gram.
- Postpone sowing of cotton, soybean, jowar, green gram, black gram, red gram till receipt of sufficient rain.
- Keep inputs ready for intercropping of soybean + red gram (4:2), cotton + red gram (6:2), jowar + red gram (4:2).

### **Vidarbha**

- Protective irrigation to earlier sown crops under stress.
- Mulching in already sown crops for conservation of soil moisture.
- Weeding in rice nursery, soybean, cotton, red gram and green gram.
- Apply irrigation to rice nursery in East Vidarbha.
- As contingency measures crops like sunflower (TAS 82, PKV SF-9, PKVSH-27, KBSH 1 and KBSH 44), pearl millet (PKV Raj, Shradha and Saburi), sesame (AKT-64 and JLT-7), castor (AKC-1, GCH-4, 5, 6, DCH-117, 32), and pearl millet + pigeon pea (2:1 or 4:2), sunflower + pigeon pea (2:1), sesame + pigeon pea (4:1) intercropping systems can be adopted.
- As normal sowing window of cotton is over, under delayed sowing conditions, early varieties of American (AKH-8828, PKV Rajat, AKH-081) and Deshi (AKA-5, AKA-7 and AKA-8) cotton are recommended.

### **Gujarat Region**

- Intercultural operations, weeding and gap filling in cotton, groundnut and vegetable crops to conserve soil moisture and to maintain optimum plant population.
- Protective irrigation in alternate rows in cotton, groundnut and vegetable crops under moisture stress condition.
- Mulching with crop residues.
- Sowing of pearl millet (moderate duration varieties like GHB-744, early maturing varieties like GHB 538, GHB 719).

### **Rajasthan**

- Keep the crops weed free. Undertake thinning in maize and maintain the plant to plant distance at 20-25 cm.

- In case of crop failure due to prolonged dry spell, farmers should procure improved seeds of pulses, sesame and cluster bean for re-sowing.

### **Bihar**

- Paddy: complete nursery sowing by 10 July. Sahbhagi, Prabhaat, Dhanlakshmi, Richaria, Saket-4 and Pusa-2-21 are recommended for early sowing; Santosh, Seeta, saroj, rajshree, prabhaat, rajendra subashni, rajendra kasturi, rajendra bhagwati kamani and sugandga for short to medium duration.
- Pigeon Pea: sowing of Bahar, Pusa-9, Narendra Arher-1 varieties of Pigeon pea is advised. Application of 20 kg/ha Nitrogen, 45 kg/ha Phosphorus and 20 kg/ha Potash and 20 kg sulphur /ha before sowing of seed is recommended. Use seed rate of 18-20 kg/ha.

### **Jharkhand**

- Rice: for direct seeding of rice, select short duration varieties like Birsa Dhan - 108, Birsa Vikas Dhan 109 & 110, Vandana etc. To keep the crop field weed free, spray weedicide Pretilachlor @ 4 ml per liter of water after 2-3 days of sowing
- Maize: Medium duration variety of the crops may be sown for green cobs and short duration varieties like Birsa Maize-1, Birsa Vikas Maize-2 for grain purpose. To keep the crop field weed free, spray weedicide Utraziner @ 4 gm per liter of water after 2-3 days of sowing.
- Groundnut: Recommended varieties of groundnut are Birsa Bold and A.K.12-14. 50 kg grains (seeds) of Birsa Bold variety and 30-35 kg grains (seeds) of rest varieties are needed for the cultivation in one acre.

### **Assam**

- Rice: Main field preparation: Farmers are advised to continue main field preparation by ploughing 4 to 5 times followed by harrowing. Complete the transplanting of medium duration rice seedlings by mid of July. Incorporation of FYM @ 10 quintal per bigha should be completed by 15 July. The seedlings that are ready to be transplanted may be uprooted carefully. To control thrips infestation, Chloropyriphos 20EC @ 1ml/lit of water should be applied in the seed bed a week before uprooting of seedling.
- Sugarcane: The crop is in Grand growth stage. Present weather is favorable for stem borer infestation in sugarcane crop. Make frequent visits in the field to destroy the egg masses. Stem borer infestation may also be checked by burying or burning the infested canes.

### **Chhattisgarh**

- Rice: In the light soils, early duration varieties like Danteshwari, Poornima, Indira Barani Dhan-1, Annada, Samleshwari, MTU-1010 and IR-36 can be grown.
- In the upland and un-bunded fields, the crops like green gram, black gram and sesame can be cultivated. Ensure proper drainage.



### **Himachal Pradesh**

- Maize: Sowing of maize in rainfed areas to be completed otherwise late sowing may lead to reduced yield. For the control of weeds in maize, spray Atrazine 50 W.P. @ 1.75-2.75 kg/ha in 800 litres of water within 48 hours of sowing.
- Cauliflower: nursery sowing of variety Patna snowball and joint snowball can be taken up.
- Tea: Plucking at 8-10 days interval is recommended. To control mealy bug, spray Deltamethrin (Decis 2.8 EC @ 1340 ml in 750 litres of water for one hectare. For the control of mites spray Dicofol (kelethane) @ 2025ml in 750 litres of water for one hectare. Repeat the spray at 15 days interval. Spray immediately after plucking.

### **Jammu & Kashmir**

- Paddy: due to chances of rainfall, rainfed farmers are advised to bund their fields for in situ storage of rain water and utilize the same for puddling. Farmers can go for the transplanting of early maturing varieties (Jaya, RR-8585, IET-1410, Ratna and PC-19). Keep the nursery and bund free from weeds.
- Maize: farmers are advised to go for sowing of maize crop (var. Vivek-25, Vivek QOM-9, HM-5 and HQPM-1) with seed rate of 20-30 kg/ha at optimum soil moisture. Treat the seed with Bavistin @ 3 g/g of seed to manage soil borne diseases.