



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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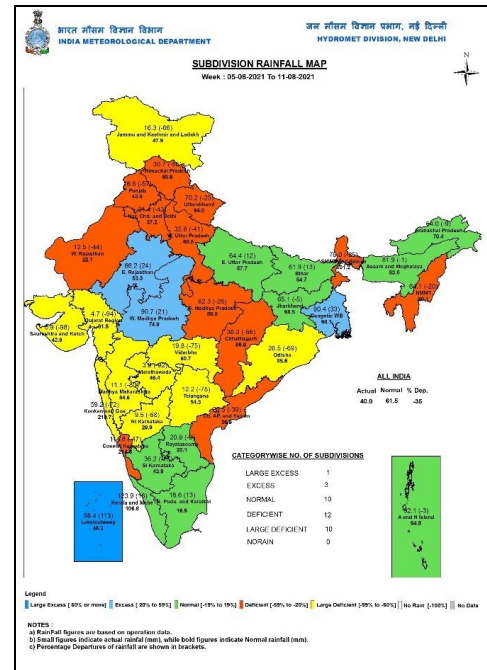
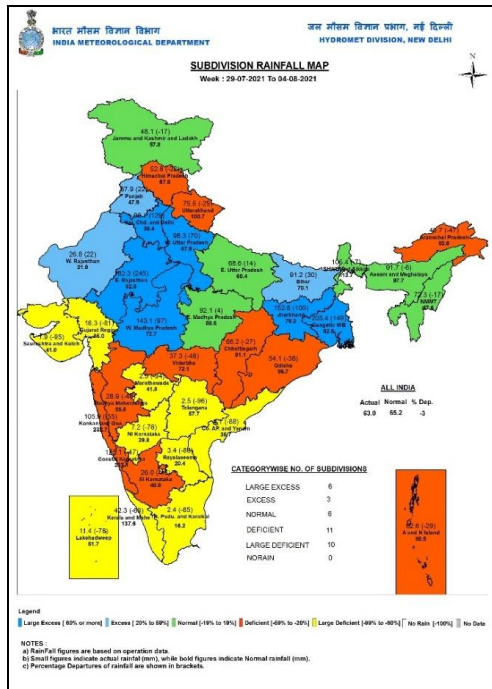
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

**India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (29th July to 11th August, 2021)



- Normal or above normal rainfall occurred during both the weeks in East Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Assam & Meghalaya, Bihar, Jharkhand and Gangetic West Bengal.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT), East Madhya Pradesh, South Interior Karnataka, Rayalaseema, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- Below Normal rainfall occurred in both the weeks/either of the two weeks over Uttarakhand, Himachal Pradesh, Chhattisgarh, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Vidarbha, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, and Coastal Karnataka.

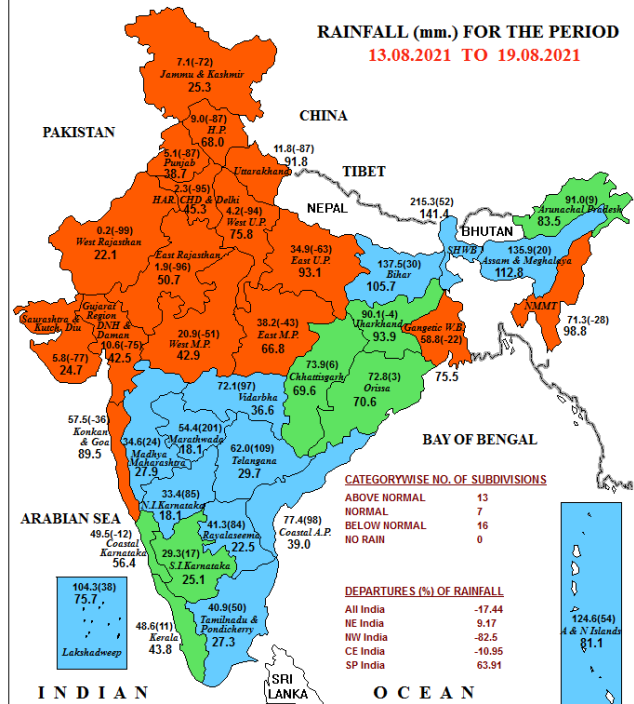
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC -11 August)

(13th to 26th August, 2021)

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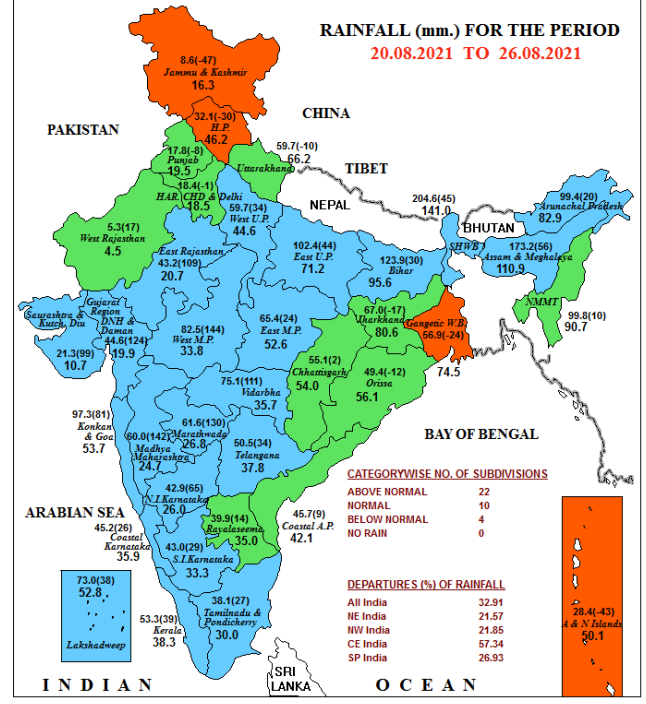
Rainfall Forecast Map - Normal RF Based Categories



NOTES:
 [a] Rainfall figures are based on MME Forecast 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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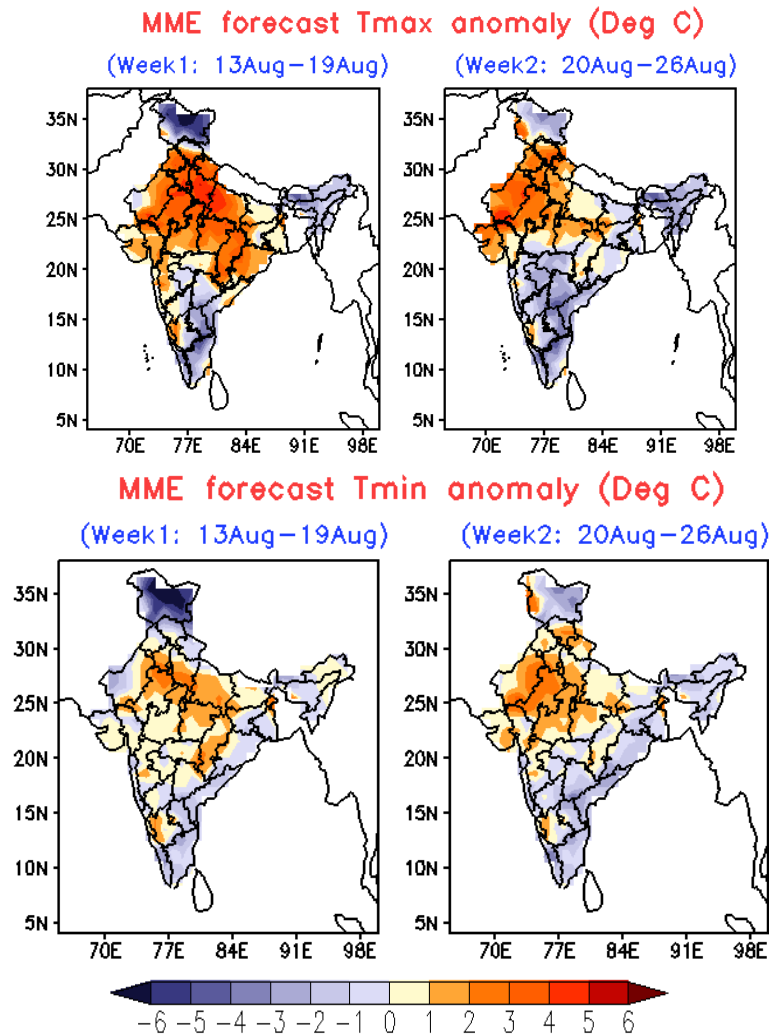
Rainfall Forecast Map - Normal RF Based Categories



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

- **Week1 (13.08.2021 to 19.08.2021):** Positive rainfall anomaly likely over some parts of south peninsula and over some parts of northeast India in week-1. However, large parts of Northwest India, north India and adjoining central India will have below normal rainfall.
- **Week 2 (20.08.2021 to 26.08.2021):** Gradual revival of monsoon is likely in week-2.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C)forecast
for next 2 weeks(IC – 11 August)
(13th to 26thAugust, 2021)**



Maximum Temperature (Tmax)

- **Week 1 (13.08.2021 to 19.08.2021) and Week 2 (20.08.2021 to 26.08.2021):** Mainly above normal Tmax likely in week 1 and week 2 over Northwest India. Above normal Tmax is also likely over the eastern parts of India (Odisha, Chhattisgarh, Bihar, Jharkhand and adjoining region) in week-1. Below normal Tmax over southern peninsula and some parts of Northeast India in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (13.08.2021 to 19.08.2021) and Week 2 (20.08.2021 to 26.08.2021):** Slight positive Tmin anomaly likely over northwest and adjoining parts north and central India in week-1 and week-2.

Strategic Agricultural Planning based on rainfall during next two weeks till 26 August 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1152.4 mm (-27% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) is normal for week-1 and above normal for week-2.

- During humid seasons, leaf spot disease is observed in bhindi. To manage, it is advised to spray Carbendazim @ 1ml per litre or Propiconazole @ 1ml per litre immediately after appearance of the disease.
- Due to increase in rainfall, there is a chance of rhizome rot in banana. As a precaution, pour 3 litres of *Pseudomonas* solution @ 20 g per 1 litre in the basin of banana plant.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 213.5 mm (37% excess) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) is above normal for both week-1 and week-2.

- Prevailing weather condition is favourable for hairy caterpillar and collar rot in moringa. It is advised to collect and destroy diseased parts of the plant and spray Mancozeb @ 2g/litre of water.
- For protecting banana from high wind speed, it is advised to mount the soil around the base of the tree and give support by using casuarina poles.

Maharashtra

Rainfall received over Madhya Maharashtra is 529.5 mm (6% excess), Marathwada is 430.3 mm (9% excess), Vidarbha is 527.6 mm (-15% deficit) and Konkan region 2559.3 mm (18% excess) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Konkan is below normal; over Marathwada, Vidharbha and Madhya Maharashtra is above normal for week-1 and above normal over Konkan, Vidharbha, Madhya Maharashtra and Marathwada for week-2.

Marathwada

- Due to humid weather condition, there is a chance of aphid infestation in black gram/green gram. It is advised to spray 5% NSKE or Dimethoate 30% @ 240 ml per acre during clear weather condition.
- Due to long dry spell and cloudy weather condition, sucking pest's infestation may increase in cotton. It is advised to spray 5% NSKE or *Verticillium lecanii* @ 1 kg or Flonicamid 50% @ 60 g or Dinotefuran 20% @ 60 g or Buprofezin 25% @ 400 ml or Acetamipride 20% @ 40 g per acre.

Vidharbha

- To manage girdle beetle in soybean, it is advised to spray Chlorantraniliprole 18.5% SC @ 3.0 ml or Thiomethoxam 12.6% + Lambda Cyhalothrin 9.5% ZC or Ethion 50% EC 30 ml per 10 litres of water during clear weather condition.
- To reduce the fruit-drop in mandarin orange, it is advised to spray of 1.5 g Gibberellic acid + 1 kg Urea + 100 g Carbendazim 50% WP per 100 litres of water.

Madhya Maharashtra

- For the management of leaf eating caterpillar in mango, it is advised to spray Chlorpyrifos + Cypermethrin @ 2 ml per litre of water.

Konkan

- Due to intermittent rainfall, there is possibility of army worm infestation in finger millet and proso millet field. If noticed, it is advised to dust Chlorpyrifos 1.5% DP.
- For the management of red pumpkin beetle in cucurbitaceous crops, it is advised to spray Dimethoate 30% EC @ 15 ml per 10 litres of water during clear weather.

Hisar

Amount of rainfall received over Hisar is 349.9 mm (25% excess) during 01 June 2021 - 12 August 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Hisar is below normal for week-1 and normal for week-2.

- Due to prevailing hot and humid weather, farmers are advised to monitor white fly, jassids and other sucking insect pests in cotton crop and also apply the irrigation as per the crop need.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop during second week.

Karnataka

Rainfall received during 01 June 2021 - 12 August 2021 over South Interior Karnataka is 490.5 mm (11% excess) and North Interior Karnataka is 377.7 mm (32% excess). The extended range weather forecast (rainfall) for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over South Interior Karnataka is normal and North Interior Karnataka is above normal for week-1 and above normal over South Interior Karnataka and North Interior Karnataka for week-2.

North Interior Karnataka

- Under prevailing weather condition, complete the sowing of bajra, pigeonpea, groundnut (bunch type), green gram, maize, Bt. cotton, chilli, onion, sesamum, and navane at the earliest possible.
- Vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.

South Interior Karnataka

- Due to high wind speed, it is advised to postpone the spraying operation in crop fields and horticultural crops and also provide staking support to banana and vegetable crops to protect from uprooting.
- Earthing up is advised in long duration crops like redgram and castor crops, for better availability of soil moisture.

Uttar Pradesh

Rainfall received during 01 June 2021 - 12 August 2021 over East Uttar Pradesh is 541.9 mm (8% excess) and West Uttar Pradesh is 372.2 mm (-14% deficit). The extended range weather forecast (rainfall) for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Keeping in view of light rainfall, farmers are advised to conserve rain water in the paddy fields by making broad and elevated bunds.
- For the management of khaira disease in late planted paddy, it is advised to spray 5.0 kg Zinc sulphate/ha with 2.0% Urea solution.

Eastern Uttar Pradesh

- Due to rainy weather condition, there is a chance of downy mildew disease in cucurbits and other vegetable crops. To manage, it is advised to spray Mancozeb @ 2g/ litre.
- Prevailing weather condition is also congenial for stem borer infestation in maize crop. Hence, farmers are advised for application of Carbofuran 3% granules @ 20 kg/ha.

Jammu

Amount of rainfall received over Jammu is 288.2 mm (-22% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Jammu is below normal for week-1 and week-2.

- For the management of stem borer in maize, it is advised to apply Cartap hydrochloride/Carbofuran granules @ 5 g/plant during clear weather.
- Prevailing weather condition is favourable for new plantation of horticultural crops like guava, ber, papaya, mango and citrus crop.

West Bengal

Amount of rainfall received over West Bengal is 924.7 mm (27% excess) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19

August 2021 and 20 - 26 August 2021) over West Bengal is below normal for week-1 and week-2.

- Due to excessive humidity, there is a chance of fungal attack in betel vine garden. Farmers are advised to arrange proper air movement inside the garden and apply any copper fungicide during morning hours in clear weather condition.
- For the management of white fly in okra, it is advised to apply Imidacloprid @ 7.5- 10 ml per 10 litres of water.

Odisha

Amount of rainfall received over Odisha is 509.0 mm (-30% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Odisha is normal for week-1 and week-2.

- For the management of panama wilt disease in banana, it is advised to select disease free planting material and resistant cultivars like Bantal, Robusta, Champa, Kabuli *etc.*
- Prevailing weather is optimum for sowing of mango with recommended varieties like Banganapalli, Totapuri, Bombay green, Suvarnarekha, Neelam, Himsagar, Langra, Dusheri, Amrapalli, Mallika, Ratna, Ramkella, Rummani, Sindhu, Alphanso and Keshar, *etc.*

Assam

Amount of rainfall received over Assam is 973.4 mm (-20% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Assam is above normal for week-1 and week-2.

- Due to deficit rainfall condition, farmers are advised to apply need base supplemental irrigation in paddy field, depending upon the rainfall situation.
- Continuous rainfall and water stagnation may cause red rot disease in sugarcane orchard. To avoid, it is advised to drain out excess water and remove the affected parts of sugarcane.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 642.1 mm (-13% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Chhattisgarh is normal for week-1 and week-2.

- For management of defoliators and white fly in soybean, it is advised to spray per-mixed insecticides like Betacyfluthrin+Imidacloprid @ 350 ml/ha or Thimethoxam+Lembdacyhelothrin @ 125 ml/ha.
- Prevailing weather is suitable for planting of agroforestry trees and fruit plants like papaya, mango, guava and banana *etc.*

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 588.5 mm (-9% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Madhya Pradesh is below normal for week-1 and above normal for week-2.

- Due to excess rainfall in north Madhya Pradesh, it is advised to make proper drainage in pulse, vegetable and oilseed crop fields.
- Sugarcane plants should be tied to prevent from lodging due to strong winds.

Gujarat

Amount of rainfall received over Gujarat is 341.0 mm (-46% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Gujarat is below normal for week-1 and above normal for week-2.

- For the management of purple blotch and fusarium wilt disease in onion, it is advised to make 3 alternate sprays of Mancozeb 40 g and Carbendazim 15 g in 15 litres of water at 10 days interval.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 322.5 mm (57% large excess) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Andhra Pradesh is above normal for week-1 and normal for week-2.

- The prevailing weather condition is con for leaf folder incidence in rice grown in Nellore, Chittoor, Srikakulam and Vizianagaram districts. To control, spraying of Monocrotophos @ 1.6 ml/litre of water is advised.
- Current weather condition is congenial for collar rot disease in groundnut. For effective control, it is advised to drench the soil with Carbendazim @ 1g or Mancozeb @ 3 g/litre of water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 425.5 mm (-16% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Himachal Pradesh is below normal for week-1 and week-2.

- Farmers willing to establish new orchards during this rainy season are advised to transplant fruit saplings of mango, litchi, guava, papaya, pecanut and kagzi lime.
- In mid-hill regions, root slips of setaria and napier grass may be planted in grasslands.

Punjab

Amount of rainfall received over Punjab is 259.9 mm (-16% deficit) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Punjab is below normal for week-1 and normal for week-2.

- Prevailing weather condition is favourable for fruit rot and die back disease in chilli. To protect, it is advised to spray Follicur @ 250 ml or Indofil M 45 @ 750 g or Blitox in 250 litres of water per acre during clear weather.
- Under heavy rains, it is advised to drain out the excess water from fruit orchards and apply white wash mixture containing copper sulphate on the main trunks of fruit trees to protect them from diseases.

Jharkhand

Amount of rainfall received over Jharkhand is 689.0 mm (5% excess) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Jharkhand is normal for week-1 and week-2.

- Prevailing weather condition is congenial for the attack of stem borer in maize crop. To control, it is advised to spray insecticide Emacetin @ 1 g per litre of water.

Bihar

Amount of rainfall received over Bihar is 756.7 mm (19% excess) during 01 June 2021 - 12 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (13 - 19 August 2021 and 20 - 26 August 2021) over Bihar is above normal for week-1 and week-2.

- Monitoring is advised for the infestation of fruit and shoot borers in brinjal crop. To manage, it is advised to collect and destroy the infected plants and spray the crop with Spinosad 48 EC @ 1ml/4 litres of water.

Disclaimer:

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