

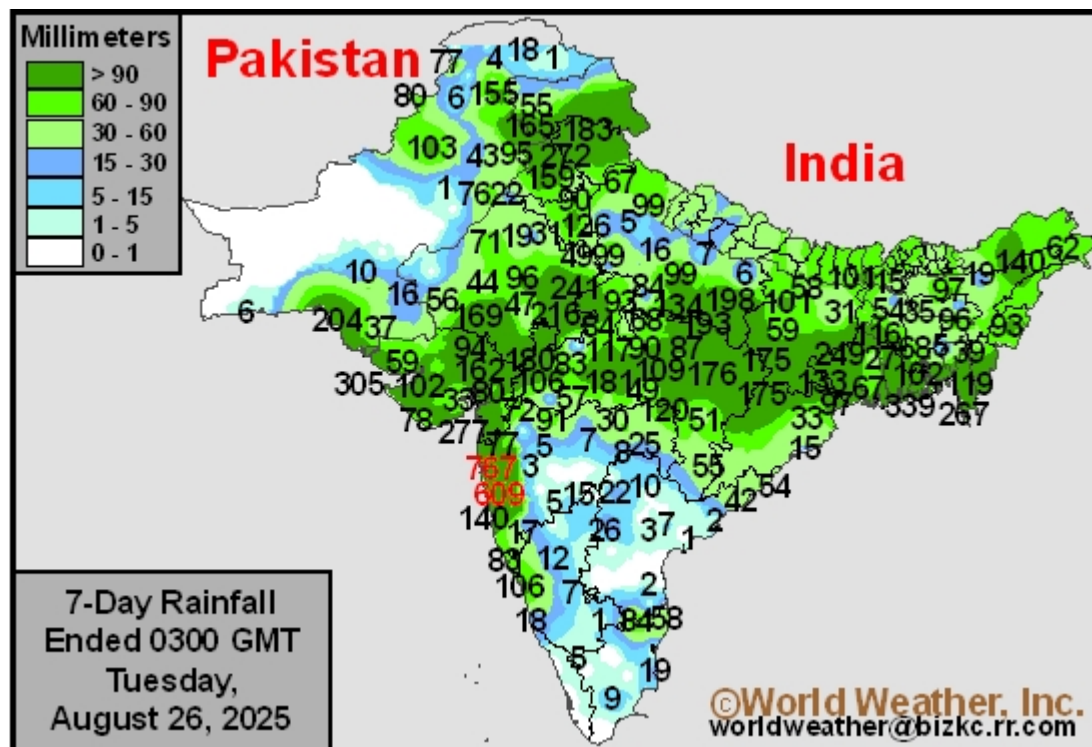
# India Flood Potential High As Monsoon Continues Active

By Andrew Owen

Kansas City, August 26 (World Weather Inc.) – Monsoonal rain kept the ground saturated and promoted flooding in portions of western and northern India during the past week. Damage to some of the grains, oilseeds, pulses, cotton, and other crops produced this time of year was possible, though the extent of the damage was not yet known. Waves of monsoonal rain will persist for much of the country outside the southern and extreme northwestern production areas during the coming week. Additional flooding will be possible and may promote more damage. Overall production potentials will remain relatively favorable for the upcoming season. The need for drier weather will otherwise increase in September.

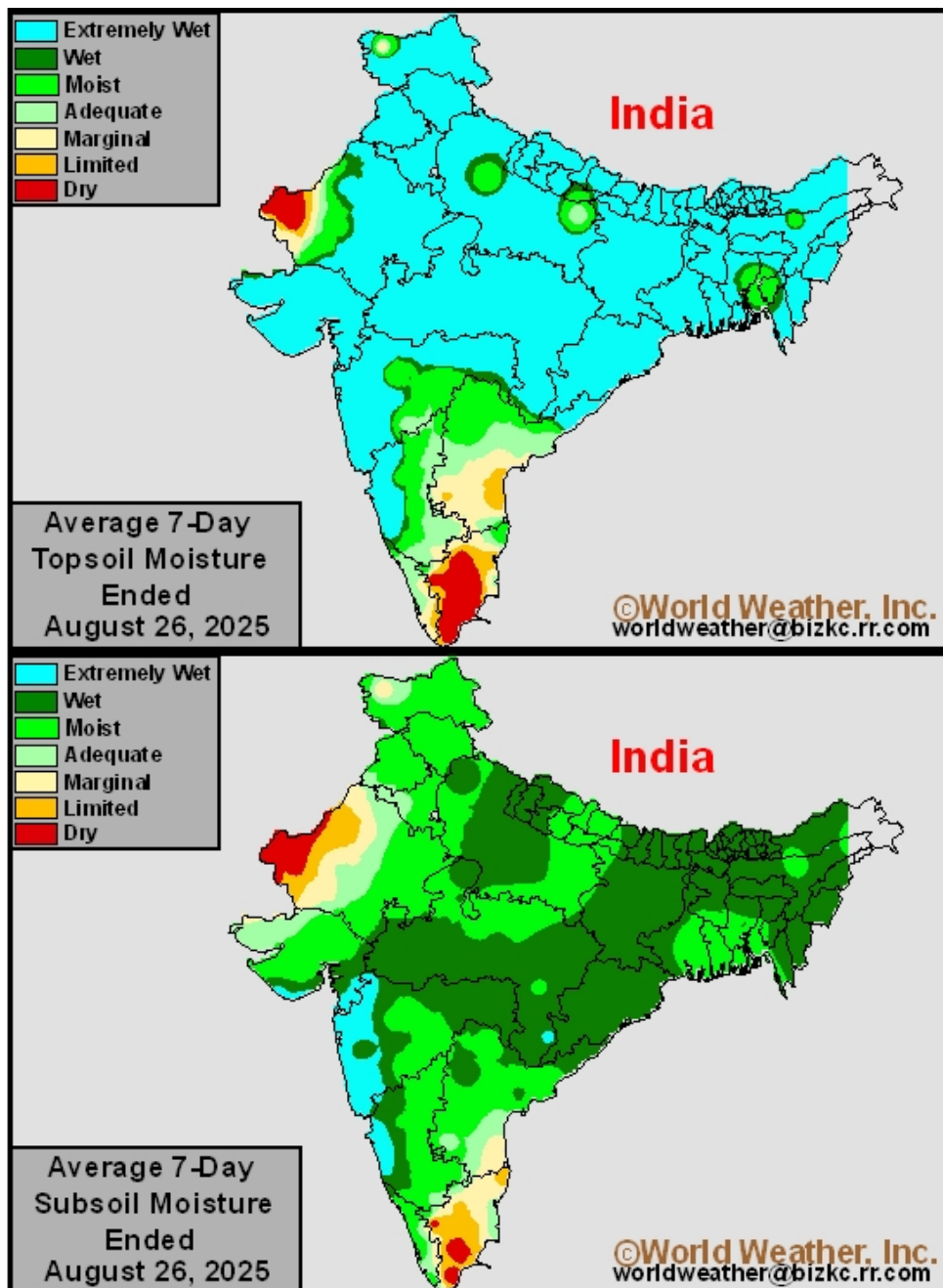
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Rainfall varied significantly across the main production areas in India during the past week. Coastal Maharashtra reported anywhere from 5.50 to 30.20 inches of rain for the seven-day period ending this morning. Gujarat and a large section of Rajasthan and Madhya Pradesh into northern India, Uttar Pradesh, northern Chhattisgarh, Jharkhand, West Bengal, northern Odisha, Bangladesh, and the Eastern States received 2.00 to 7.00 inches of rain with local amounts up to 10.71 inches. Pockets in Bihar also only received up to 0.63 inch of moisture. Bihar, eastern and northern Maharashtra, southern Chhattisgarh, other areas in Odisha, northeastern Andhra Pradesh, coastal Karnataka, and northeastern Tamil Nadu received 0.71 to 4.17 inches of rain. Portions of Telangana, interior Karnataka, southern Maharashtra, and southern Tamil Nadu received 0.12 to 1.02 inches of rain. Little to no rain was noted elsewhere.



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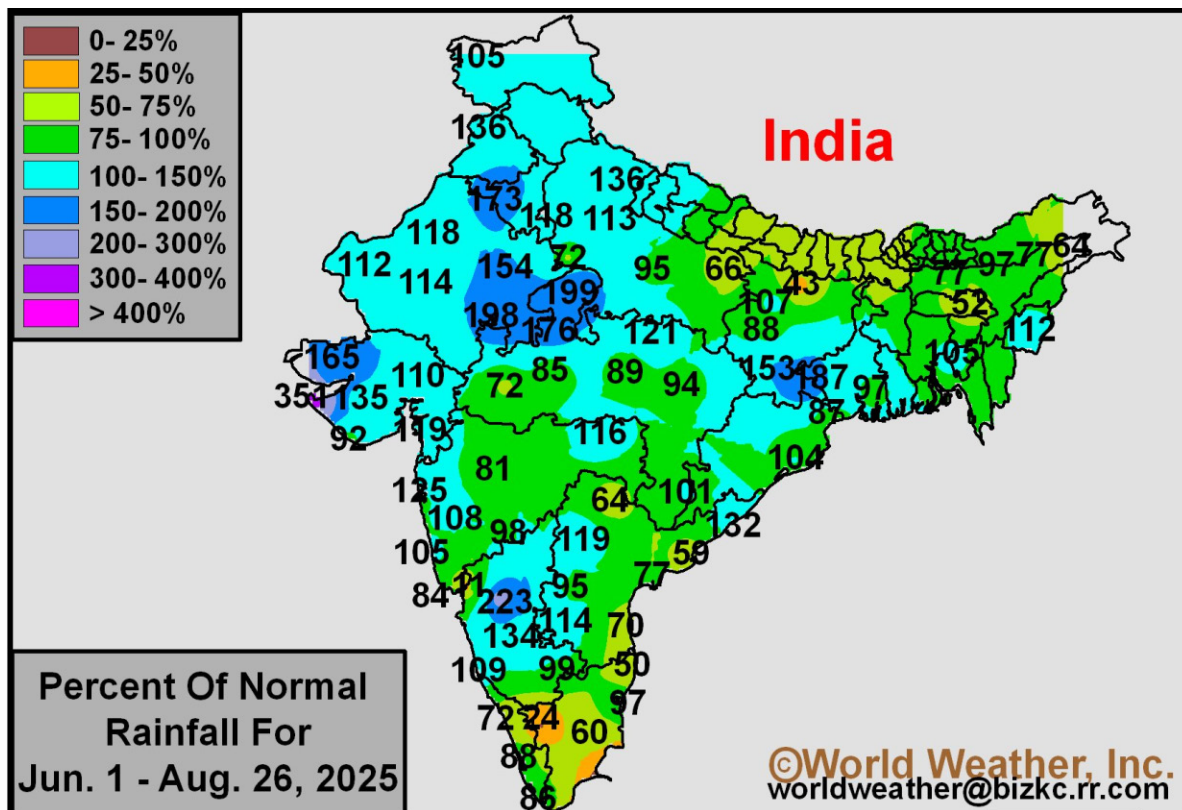
Soil moisture is rated adequate to excessive in much of India. There is some dryness in the far northwest of Rajasthan and in several areas from Andhra Pradesh southward into Tamil Nadu, the latter of which is quite dry. The most important part of the soil moisture charts shown below is the wet conditions that are present in the subsoil. Any part of India shown as dark green or blue on the subsoil moisture chart at the same time the topsoil is colored blue suggests the entire soil column is saturated with moisture and it cannot hold any more water. That implies that any and all rain that falls while the ground is that wet will result in immediate runoff and a moderate to heavy amount of rain could easily result in serious flooding. Nearly 1/3 of India has become wet enough for a serious flood event if rain falls heavily without sufficient time for runoff in the next few weeks.



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Tamil Nadu, Kerala, and portions of Andhra Pradesh, Telangana, Madhya Pradesh, central Maharashtra, southeastern Uttar Pradesh, Bihar, and the Eastern States received near to below normal rainfall so far this monsoon season. Other production areas in India generally received near to above normal precipitation. Portions of Karnataka, Gujarat, Rajasthan, Haryana, Jharkhand, and neighboring locations received 110-223% of normal precipitation from June 1 to August 26.

Flooding was noted in western Maharashtra and portions of northern India in recent days and weeks due to the periods of excessive rainfall. While damage to crops and infrastructure was noted, the extent of the damage was not yet known. These areas are major producers of cotton, peanuts, rice, and sorghum among other crops. Some losses are likely in areas that received the greatest amount of rain. Port and shipping activity may have also been impacted in Maharashtra where severe flooding may have affected infrastructure.



In the meantime, most other areas in India have ample moisture to support relatively favorable crop development. Portions of Tamil Nadu are a little too dry for ideal conditions and production may be impacted as a result. Production potentials otherwise remain favorable for much of the country outside areas impacted by flooding.

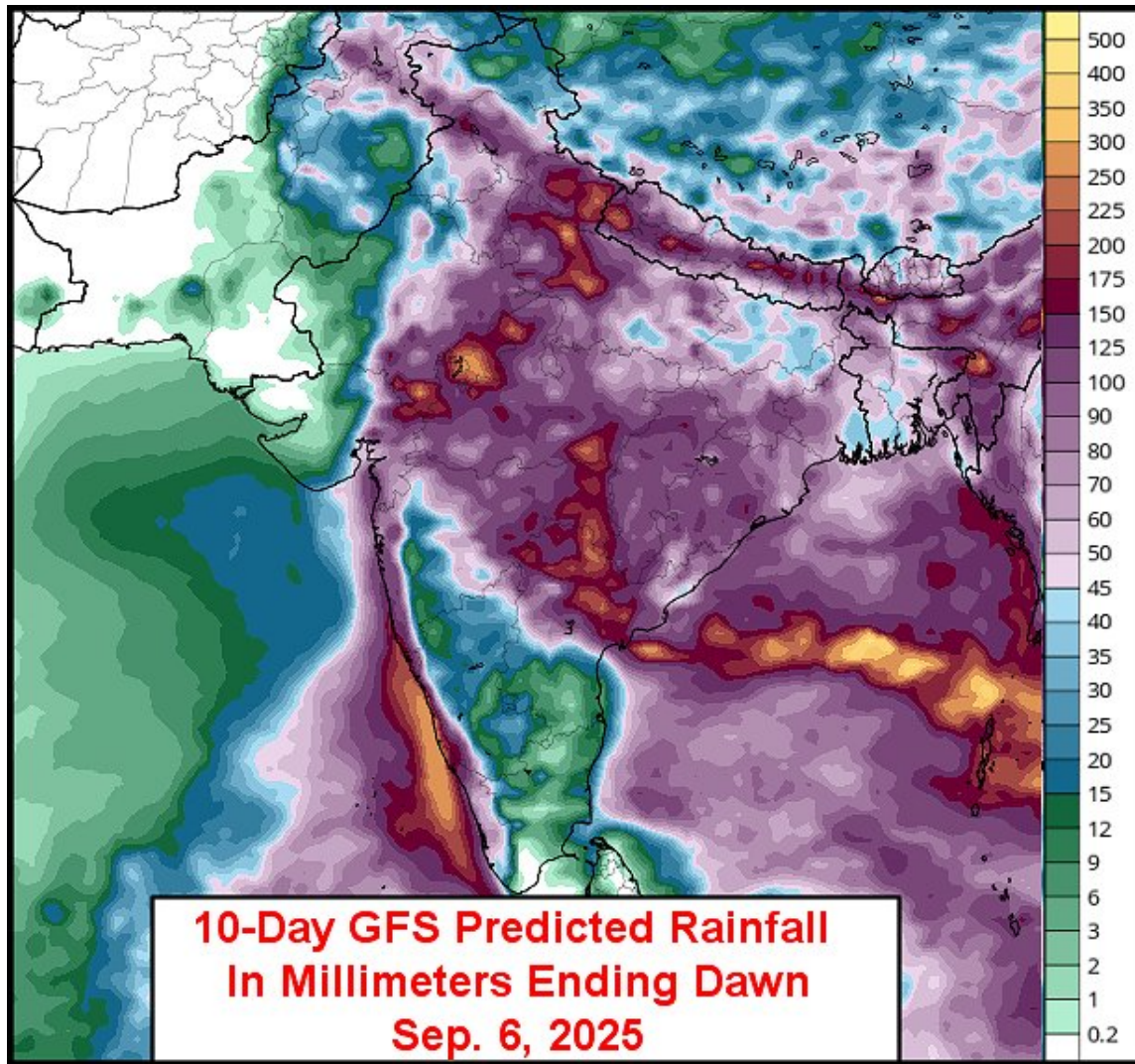
### WEATHER OUTLOOK

Southern India and western fringes of Gujarat and Rajasthan will trend drier than usual during the coming week. Kerala and coastal Karnataka will still see waves of rain with totals ranging from 0.50 to 3.00 inches and local amounts of 5.00 inches or more by next



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Tuesday morning. Other locations will be dry or not receive enough rain to impact long-term soil conditions. Tamil Nadu will remain too dry to support ideal late-season development. Other locations will have some moisture to support new growth, though a good shot of rain would be welcome later in September.



The remaining production areas in India will have several opportunities for monsoonal rain during the coming week. A monsoonal disturbance will help enhance rainfall from northeastern Andhra Pradesh into Maharashtra today. Another monsoonal disturbance will enhance precipitation in northern, central, and portions of western India Friday into early next week. Areas from northern India, eastern sections of Gujarat and Rajasthan, and Madhya Pradesh into Maharashtra, Telangana, northeastern Andhra Pradesh, and neighboring locations will receive 2.00 to 6.00 inches of rain with local amounts of 10.00 inches or more by next Tuesday morning. Other Locations will receive 0.75 to 4.00 inches of rain with locally greater amounts in Uttar Pradesh and the Eastern States.

*Severe flooding will remain a concern in northern India, eastern sections of Gujarat and Rajasthan, Maharashtra, and neighboring locations in the coming week due to the additional rain. Additional crop damage will be possible in the wettest areas of*

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*northern India and Maharashtra. Minor production cuts will be possible. The remaining locations in central India and much of eastern India will receive enough rain to maintain a good environment for the crops.*

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