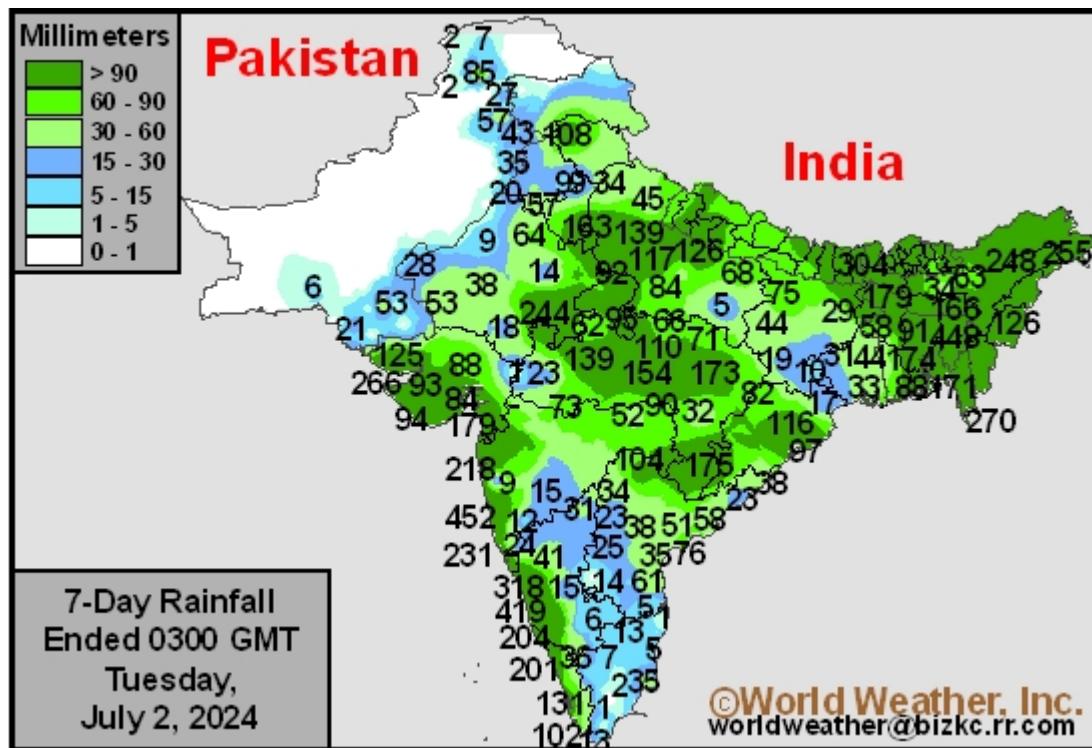


# Flood Potentials Rising For India's Ganges River Basin

By Andrew Owen

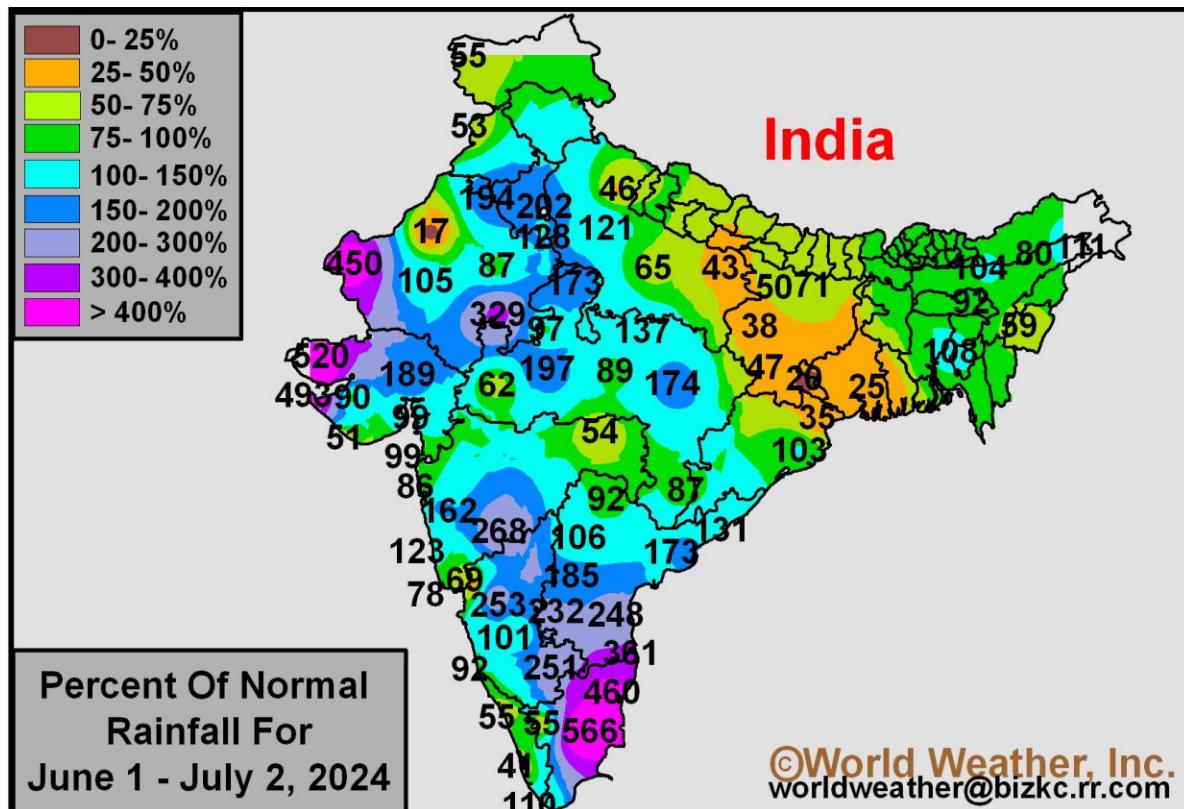
Kansas City, July 2 (World Weather Inc.) – India's monsoon has been steadily improving in recent days and this trend will continue for the next week to ten days in the central and northeastern parts of the nation. The wet bias is expected to lead to some flooding especially in the Ganges River Basin where some of the poorest monsoonal rains have occurred in recent past years. Planting has advanced around recent rain and the environment is improving for the emergence and establishment of early-season crops. Eastern into northern India will receive some of the most significant rain during the coming week as a monsoon low pressure center slowly advances over the country. Sufficient rain will fall to saturate the soil and induce some of the season's first significant flooding. Some flooding has already occurred in the far Eastern States of India and there has been some beneficial rain in Gujarat and Rajasthan within the past week.



The Eastern States, Bangladesh, and coastal sections of Karnataka and Maharashtra received some of the most significant rainfall in India during the past week. Moisture totals for the seven-day period ending this morning ranged from 3.58 to 10.04 inches with local amounts up to 17.80 inches. Kerala, Gujarat, Madhya Pradesh, southeastern Rajasthan, Chhattisgarh, Haryana, western Uttar Pradesh, and Odisha received 2.44 to 6.89 inches of rain with local amounts up to 10.47 inches in western Gujarat and southeastern Rajasthan. Most other production areas received 0.79 to 4.25 inches of rain, though pockets in Tamil Nadu, southeastern Karnataka, West Bengal, and western Rajasthan only received up to 0.51 inch of rain.

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Temperatures were near normal with daytime highs often peaking to the 80s and 90s Fahrenheit. However, portions of western India, Rajasthan in particular, often warmed above 100 degrees. Nighttime lows were in the 70s and 80s.



West Bengal, Jharkhand, Bihar, eastern Uttar Pradesh, Himachal Pradesh, and northeastern Odisha have trended drier than normal so far this season. Rainfall as a percent of normal from June 1 – July 2 ranged from 20-71%. Other locations in India generally received near to above normal rainfall with portions of southern India, Gujarat, and Rajasthan reporting two to more than four times normal rainfall. Pockets in central India and along the southwestern coastline were also drier or slightly drier than normal.

Although portions of India have started the monsoon season drier than normal, most locations received enough rain to support generally good establishment and early-season growth. Rainfall has been spread out enough to limit planting and fieldwork delays, though portions of the Eastern States, Bangladesh, and central India may have received enough rain to limit planting at times. Long-term crop prospects remain generally favorable across the country. The evolution of La Niña later this summer and early autumn could enhance late-season monsoonal rainfall. Producers may plant a greater than usual amount of crops this season in anticipation of increased rainfall.

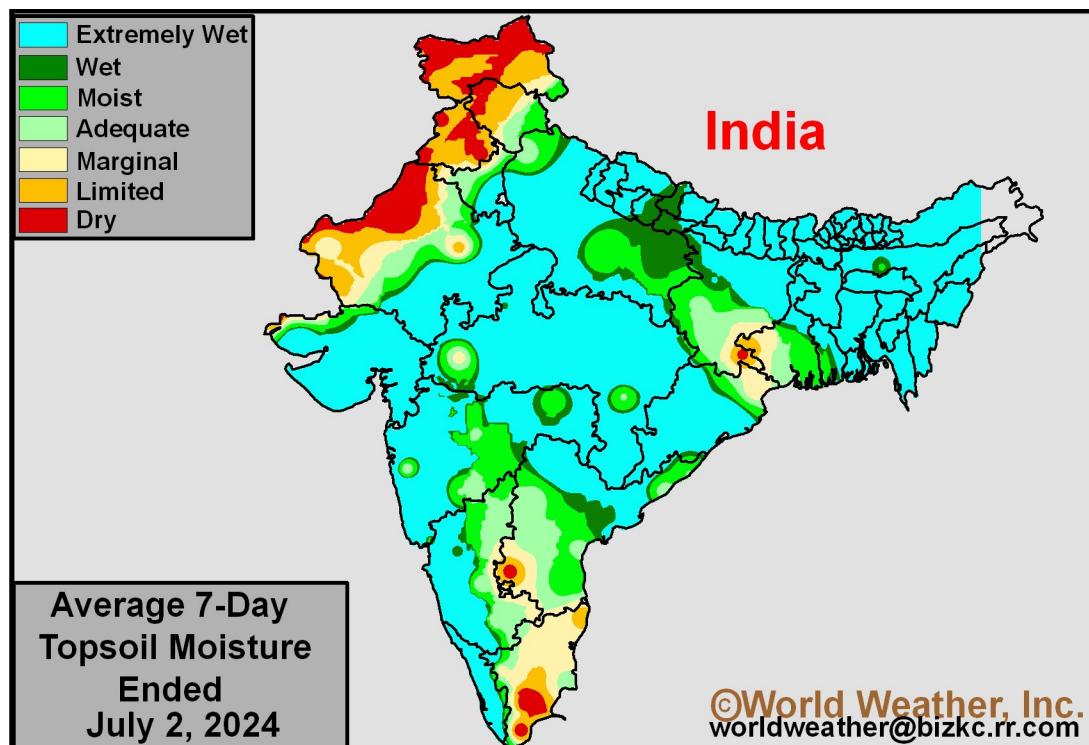
## FORECAST WEATHER

Monsoonal rain will vary across India during the coming week. Eastern into northern India will receive some of the most frequent and significant rain as a monsoonal low-

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pressure center slowly advances over the country in the coming days. Bangladesh, the Eastern States, West Bengal, Jharkhand, and Bihar into Uttar Pradesh, Uttarakhand, Himachal Pradesh, Haryana, and much of Punjab, along with coastal sections of Karnataka and Maharashtra, will receive 3.50 to 7.00 inches of rain with local amounts of 10.00 inches or more by next Tuesday morning. Other locations in eastern India into much of central India, eastern Maharashtra, western Madhya Pradesh, eastern Gujarat, southern and eastern Rajasthan, and Kerala will receive 1.50 to 5.00 inches of rain with locally greater amounts in Madhya Pradesh. The remaining production areas in southern and western India will only have a few opportunities for monsoonal rain. These locations will receive 0.10 to 1.00 inch of rain with locally greater amounts in southern Andhra Pradesh, western Gujarat, and neighboring locations.

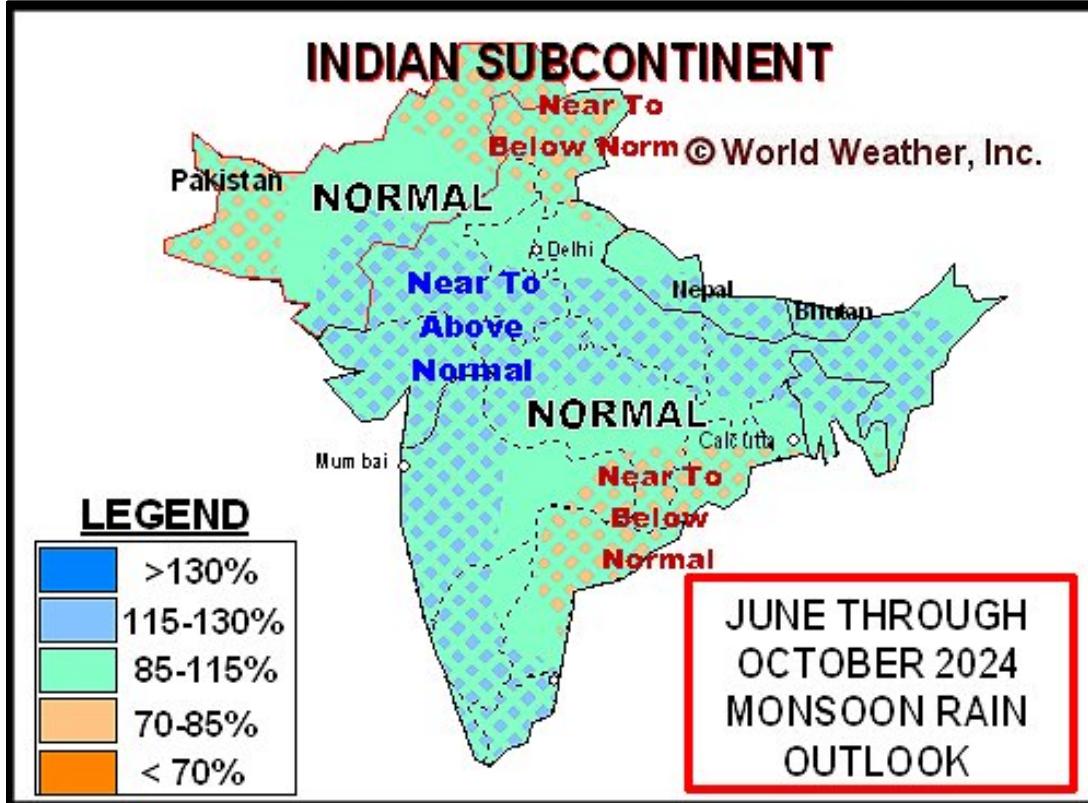
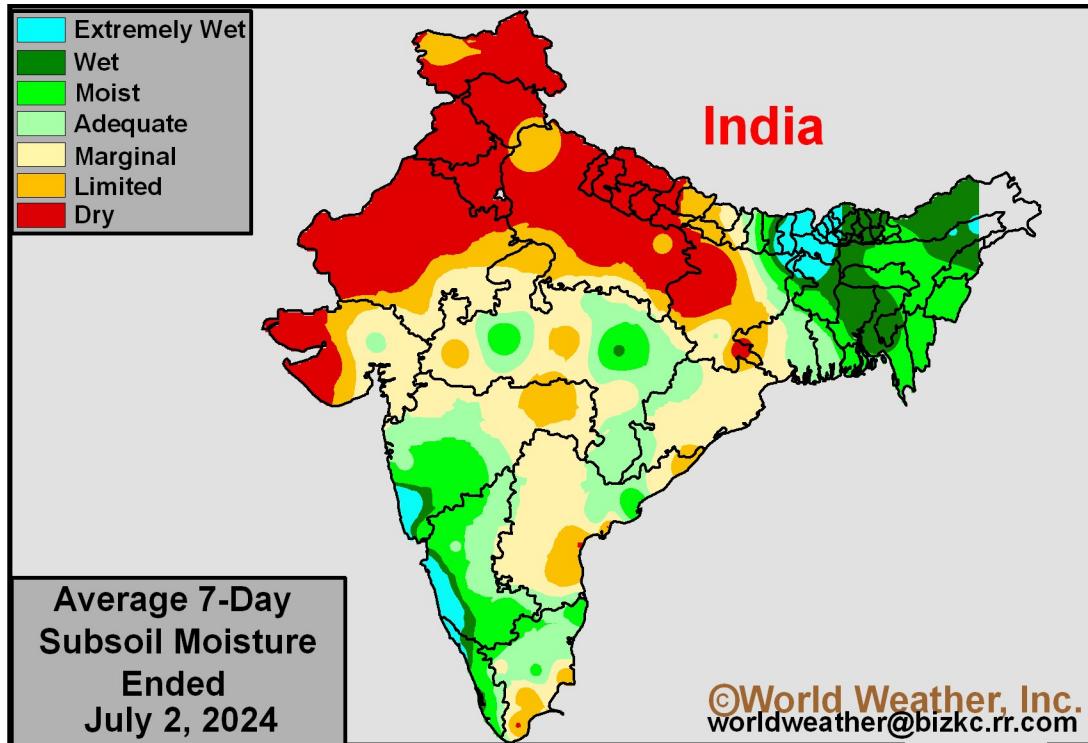
Much of India will again have opportunities for monsoonal rain on a frequent basis July 10 – 16. However, the southern tip of India and western fringes of Rajasthan will only receive light amounts of rain.



Waves of monsoonal rain will gradually bolster soil moisture for much of eastern and northern India during the coming week. Localized flooding will be possible and may damage some crops warranting a little replanting. The rain will otherwise be welcome in supporting good establishment and early-season development, most notably in the areas of eastern India that have trended drier than normal so far this season.

Central and much of western India outside western Rajasthan will also receive enough rain to support favorable establishment and development in coming weeks. Planting will advance around the periods of rain. Southern India will also have some moisture to support generally good development for the early-planted crops.

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## **Flood Potentials Rising For India's Ganges River Basin**

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