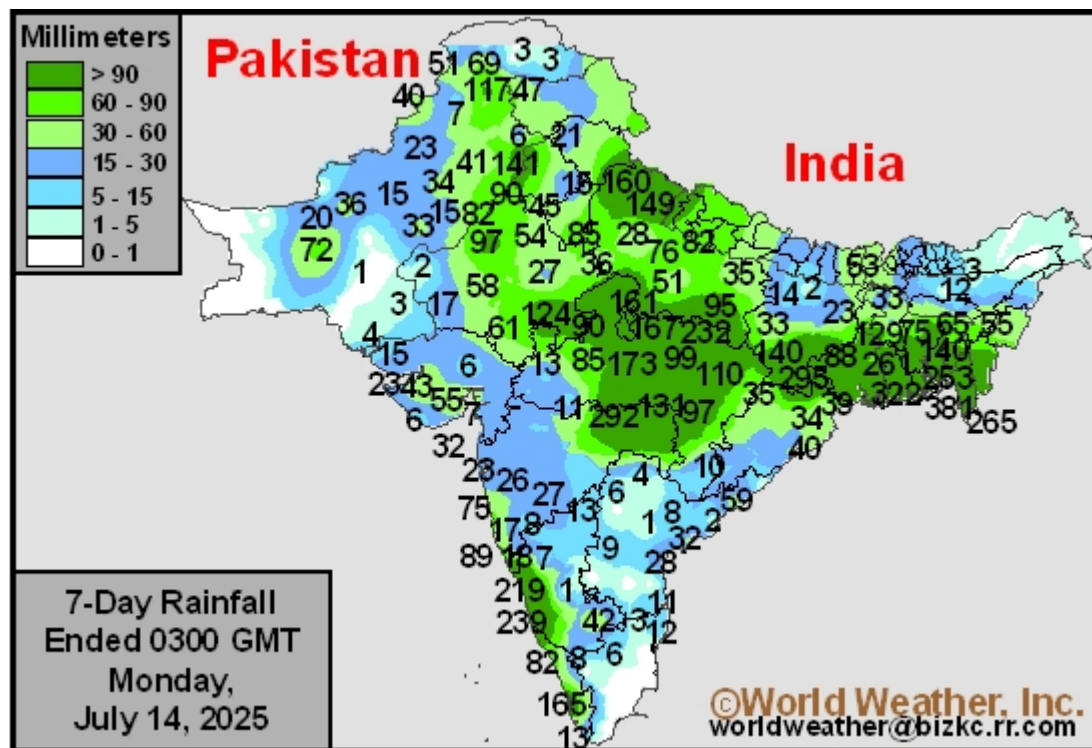


Southern India To Receive Much Needed Monsoonal Rain

By Andrew Owen

Kansas City, July 14 (World Weather Inc.) – *Southern India continued to dry down during the past week due to a lack of rain and warm to hot weather. The region and several neighboring areas in central India and Maharashtra received below normal rainfall during the past month and the need for rain is growing. The ground is too dry to support aggressive growth for the earliest-planted crops. Continued dryness may impact production potentials.* Other locations in India generally have ample moisture to support aggressive establishment and growth. *Southern India will see rain potentials increase later this week and weekend that will start to improve the moisture profile. Additional rain will still be needed to completely fix the moisture deficits, though crops will welcome the rain.*

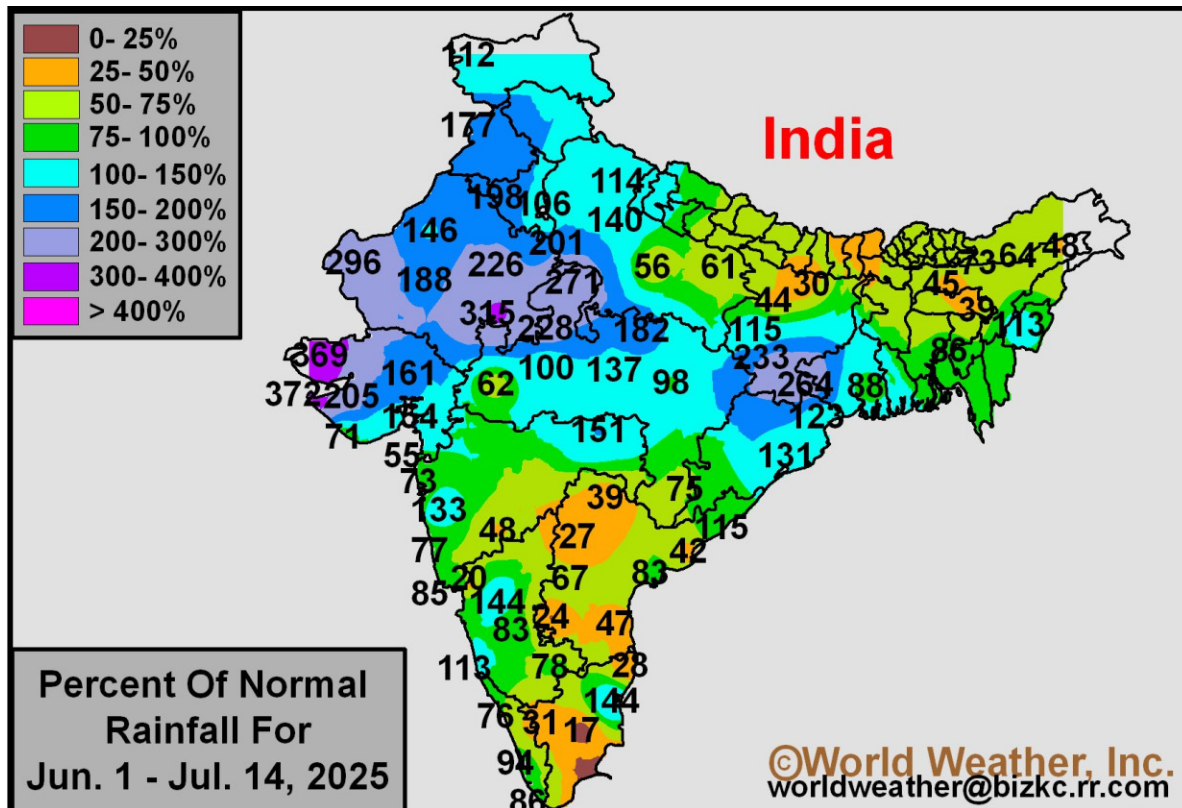
In the meantime, Gujarat and western Maharashtra will trend drier than usual this week and timely rain will be needed later this month. Most other production areas will see a good mix of monsoonal rain and sunshine this week.



Rainfall varied across the main production areas in India during the past week. Bangladesh, West Bengal, and southern sections of the Eastern States through Jharkhand and the northern two-thirds of Chhattisgarh into much of Madhya Pradesh outside the extreme western production areas, eastern Maharashtra, and Uttarakhand, along with coastal Karnataka, received 3.40 to 9.13 inches of rain with local amounts up to 15.00 inches in southern fringes of the Eastern States and Bangladesh for the seven-day period ending this morning. Uttar Pradesh, Rajasthan, Haryana, Punjab, Himachal Pradesh, and Kerala received 0.51 to nearly 5.00 inches of rain. Odisha, northeastern Andhra Pradesh, Gujarat, western fringes of Madhya Pradesh, western Maharashtra, interior Karnataka, and Bihar received 0.32 to 1.65 inches of moisture. Pockets in Telangana, southern Andhra Pradesh,

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and northern Tamil Nadu received up to 0.50 inch of rain. Little to no precipitation was noted elsewhere.

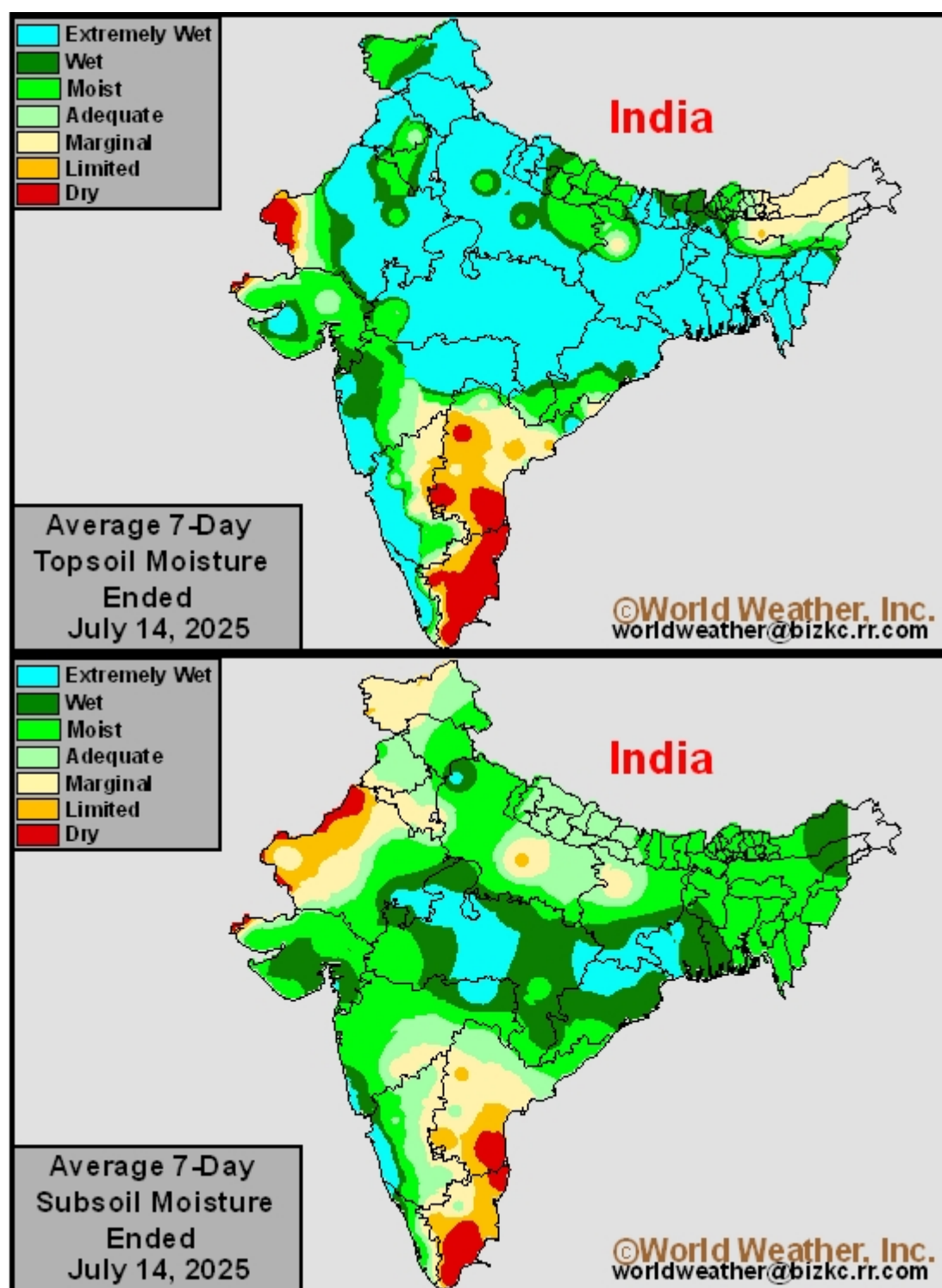


Gujarat, Rajasthan, Punjab, Haryana, northern Madhya Pradesh, and Jharkhand have been wetter or much wetter than normal since the beginning of the monsoon season. Rainfall as a percent of normal from June 1 – July 14 ranged from 106% to 315% with wetter pockets in western Gujarat. Uttarakhand, Himachal Pradesh, other areas in Madhya Pradesh, Odisha, northeastern Andhra Pradesh, and portions of West Bengal, Karnataka, and Maharashtra also received near to above normal rainfall. The remaining locations received near to below normal rainfall during this time with portions of Tamil Nadu, southern Andhra Pradesh, Telangana, Bihar, and the Eastern States receiving less than 50% of normal precipitation.

Tamil Nadu and many areas in Andhra Pradesh, Telangana, and interior Karnataka still have short to critically short soil moisture despite some spotty rain in recent days. Other locations have adequate to excessive soil moisture.

Several areas in southern India remain too dry to support favorable conditions for the early-planted corn, peanuts, rice, sorghum, sunseed, and other crops produced this time of year. The lack of moisture may continue to promote uneven or poor development. Continued dryness may raise concerns for production losses in these locations. The remaining locations in India generally have enough moisture to support aggressive establishment and growth. Long-term production potentials are favorable due to the timely monsoonal rain so far this year.

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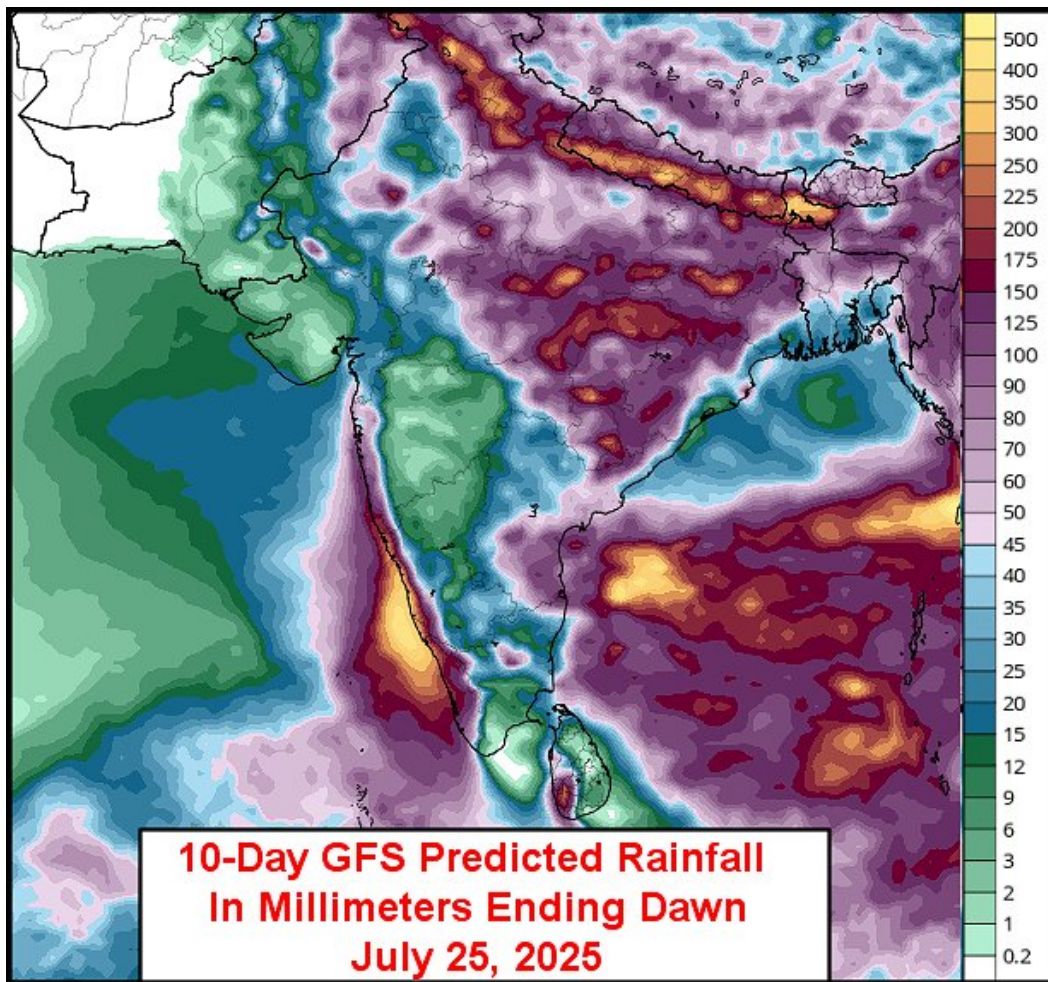
WEATHER OUTLOOK

Southern India will receive much-needed monsoonal rain this week. Kerala and coastal Karnataka will initially receive rain today and Tuesday with a few light showers also occurring elsewhere. More widespread rain will evolve later this week and weekend in part

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due to a weak monsoonal disturbance. Moisture totals by next Monday morning will range from 2.00 to 6.00 inches in Kerala and coastal Karnataka with local amounts of 10.00 inches or more. Other locations will receive 0.50 to 3.00 inches of rain with drier pockets in interior Karnataka and southern Tamil Nadu. Southern India will again have a few opportunities for rain July 22 – 28, though rainfall will likely be lower compared to the first week of the outlook.

The periods of rain in the coming weeks will marginally improve soil moisture in the driest areas of Tamil Nadu, southern Andhra Pradesh, and interior Karnataka. Crops will react favorably to the rain and short-term development conditions may improve. However, the rain will be too light to completely fix the dryness. Additional rain will be needed late this month into early August to improve long-term production potentials for the grains, oilseeds, pulses, and other early-planted crops produced in southern India.



Gujarat and western Maharashtra will trend drier than usual this week. Spotty monsoonal rain will still occur at times with moisture totals ranging from 0.10 to 0.75 inch by next Monday morning. A few pockets in eastern Gujarat could receive 1.50 inches or more of rain as well. Monsoonal rain will otherwise be scattered across the remaining production areas in India on a near daily basis. Moisture totals by next Monday morning will range from 1.50 to 5.00 inches with local amounts of 8.00 inches or more in eastern

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Madhya Pradesh, Uttar Pradesh, Uttarakhand, and neighboring locations. Eastern, central, and northern India will continue to receive rain on a frequent basis July 22 – 28. Western India will also have a few opportunities for erratic monsoonal rain as well during the second week of the outlook, though many areas may not receive enough rain to impact long-term soil conditions.

Portions of interior western and southern Maharashtra may dry down a little too much in the coming weeks to maintain favorable conditions for the grains, oilseeds, and other crops produced this time of year. The periods of spotty rain will still help support new growth at times and no major production impacts are expected as of yet. Timely rain will be needed late this month and early August to maintain a favorable outlook for the crops. ***Gujarat will dry down too, but it has highly favorable soil moisture and will likely manage the drier biased conditions better than interior western and southern Maharashtra.*** The remaining production areas in India will receive enough rain to support relatively good crop conditions in the coming weeks. Precipitation will be spread out enough to limit severe flooding in most locations.

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