



April 2026



# Seasonal Monitoring in Cambodia

## Key messages



April 2026 maintained generally adequate water availability and favorable soil-moisture conditions, despite localized dryness and sustained heat stress, which contributed to increasing vegetation stress across the country.



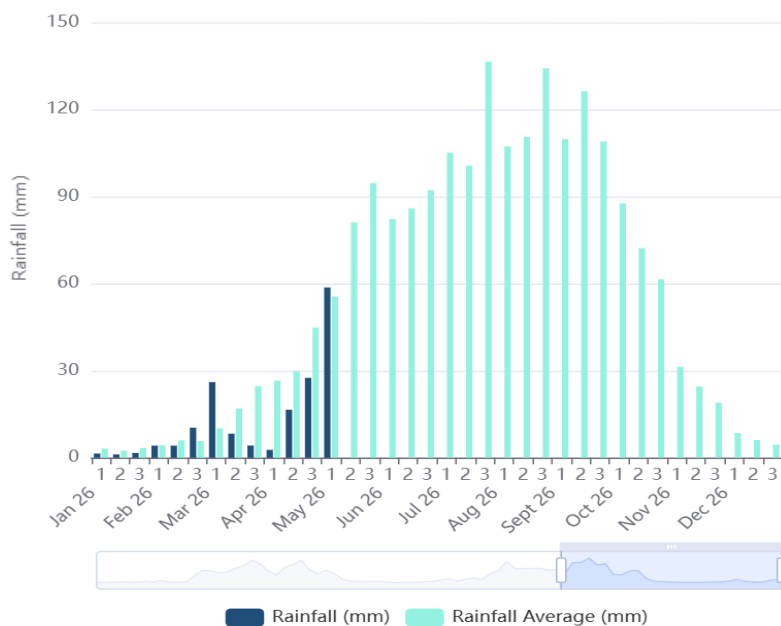
With a high likelihood of El Niño developing during May–July, seasonal climate conditions are expected to become increasingly erratic, combining below-normal rainfall (particularly in the western and northern regions), localized extreme rainfall events (especially in the southern and eastern areas), and warmer-than-normal temperatures nationwide during the early monsoon period (May–August 2026).



These evolving patterns are likely to heighten the risk of alternating dry spells, heat stress, and localized flash flooding, with implications for health, water availability, agriculture, and livelihoods, requiring close monitoring of [MoWRAM weather updates](#) and proactive preparedness.

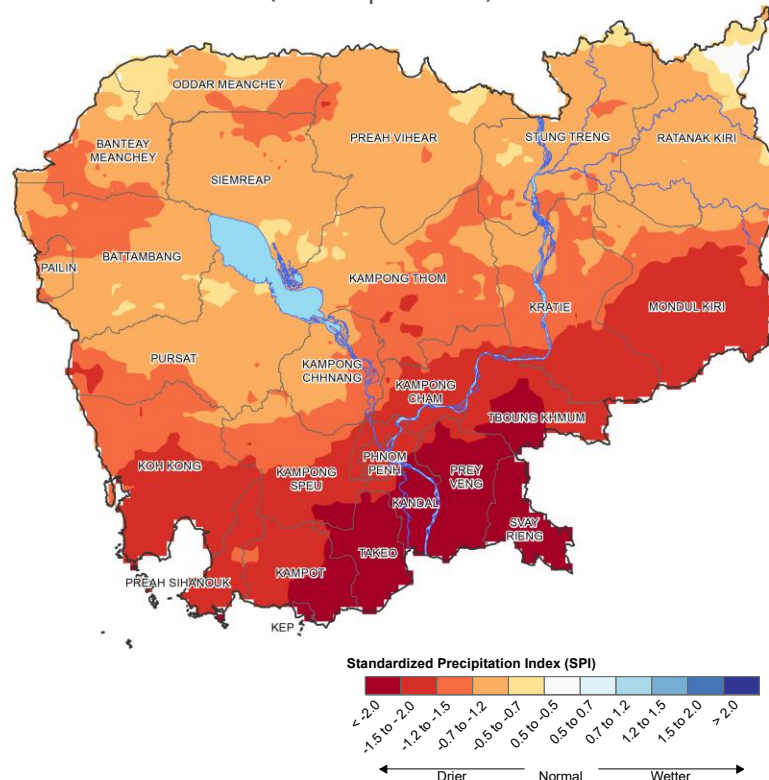
Cambodia experienced below-normal rainfall in April 2026 (see chart below), with the largest deficits observed in the southern provinces (see SPI-1 map below). On a seasonal basis, rainfall over the past three months (February–April) remained low to moderately below normal nationwide, with more pronounced dry conditions in the southern plains and coastal areas (see SPI-3 map below).

**National-Average Rainfall Distribution**  
(From 1-30 April 2026)

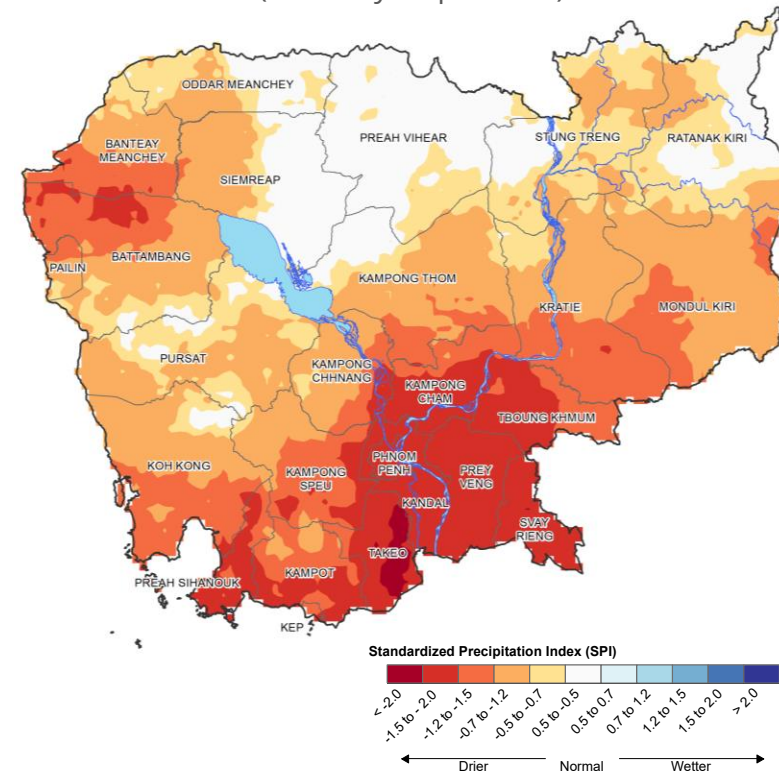


Source: Rainfall from CHIRPS and analysis by WFP.

**1-Month Standardized Precipitation Index (SPI-1)\***  
(1–30 April 2026)



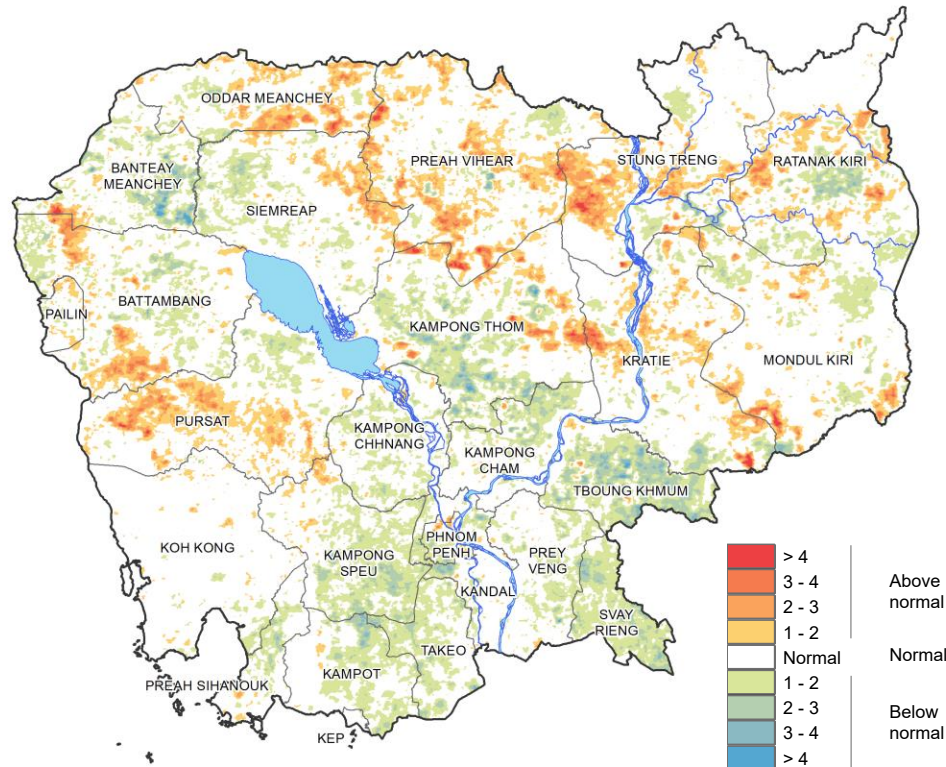
**3-Month Standardized Precipitation Index (SPI-3)\***  
(February – April 2026)



\* Note: The Standardized Precipitation Index (SPI) is a gold-standard meteorological drought indicator. A 1-month SPI (SPI-1) identifies short-term rainfall anomalies impacting immediate soil moisture and crop stress, while a 3-month SPI (SPI-3) captures short- to medium-term moisture deficits and early water scarcity—both of which are critical for rainfed agriculture and rural drinking water access.

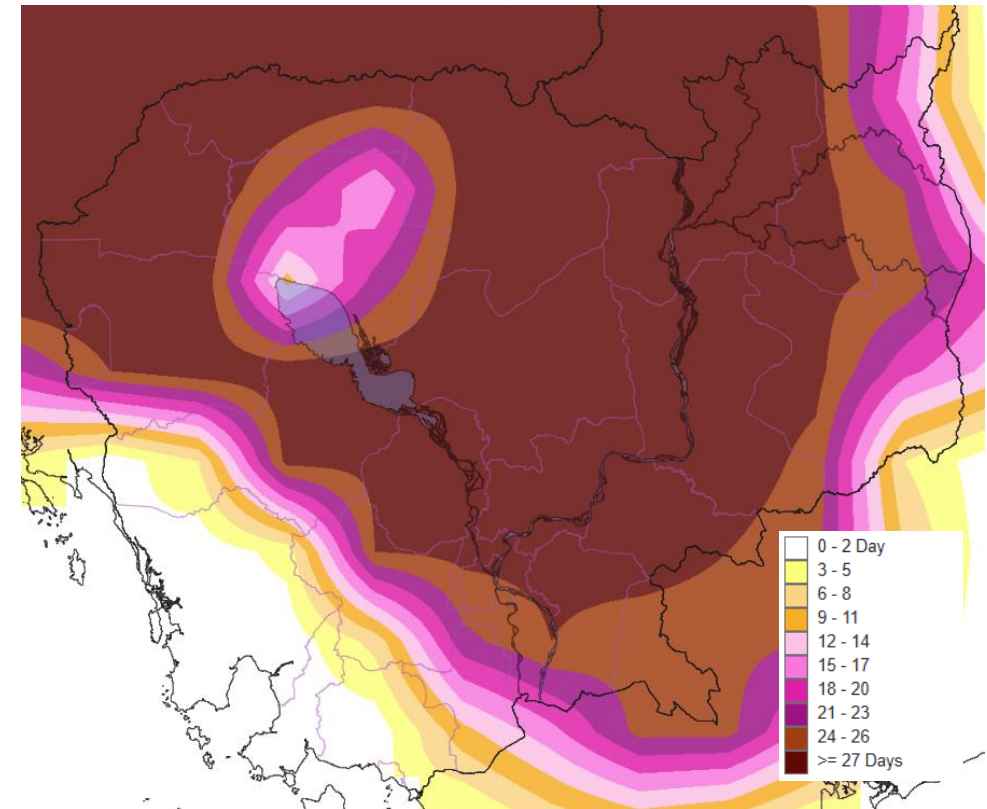
Land Surface Temperatures (LST) in April were generally above the long-term average nationwide (map below, left). Heat-stress conditions (LST  $\geq 35^\circ\text{C}$ ) persisted for more than two weeks across most provinces, except along coastal zones (maps below, right). These prolonged heat episodes are likely to accelerate evapotranspiration and increase risks to human health and livestock wellbeing, particularly under suppressed rainfall conditions.

**1-Month Land Surface Temperature (LST) Anomaly**  
(1–30 April 2026)



Source: LST from MODIS and analysis by WFP

**Heat Stress Days ( $\geq 35^\circ\text{C}$ )**  
(1–30 April 2026)



Source: USDA (NOAA-CPC)

In April 2026, all eight river monitoring stations showed seasonal recession with minor deviations from long-term averages.

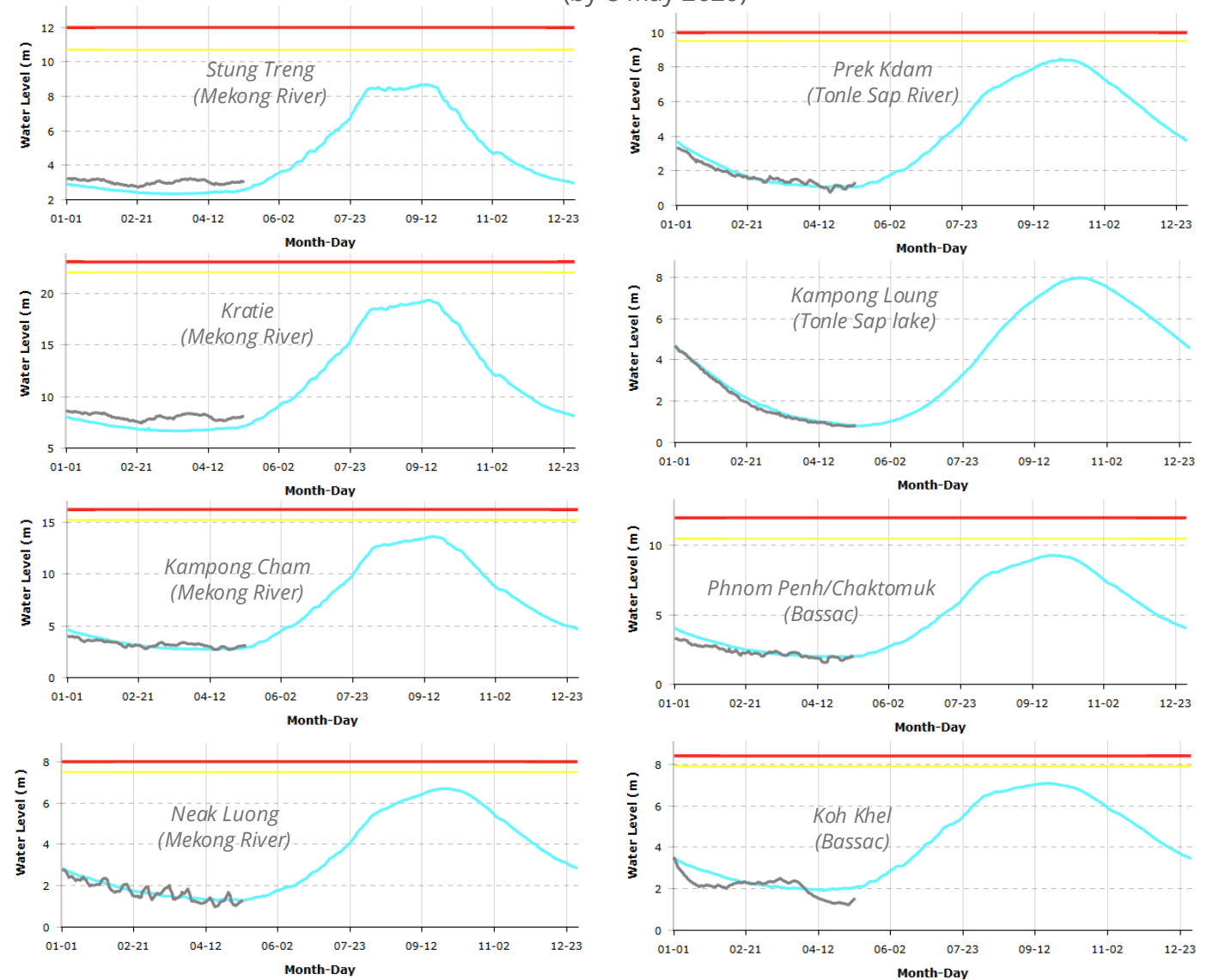
Along the Mekong River, water levels were near to above long-term averages at Stung Treng, Kratie, Kampong Cham, and Neak Loung.

The Tonle Sap Lake and River remained close to long-term averages, although total lake volume was approximately 6.5% below average by the end of April.

Along the Bassac River, water levels were near average at Phnom Penh but below long-term average at Koh Khel.

## River water level observed in 8 monitoring stations in Cambodia

(by 8 May 2026)

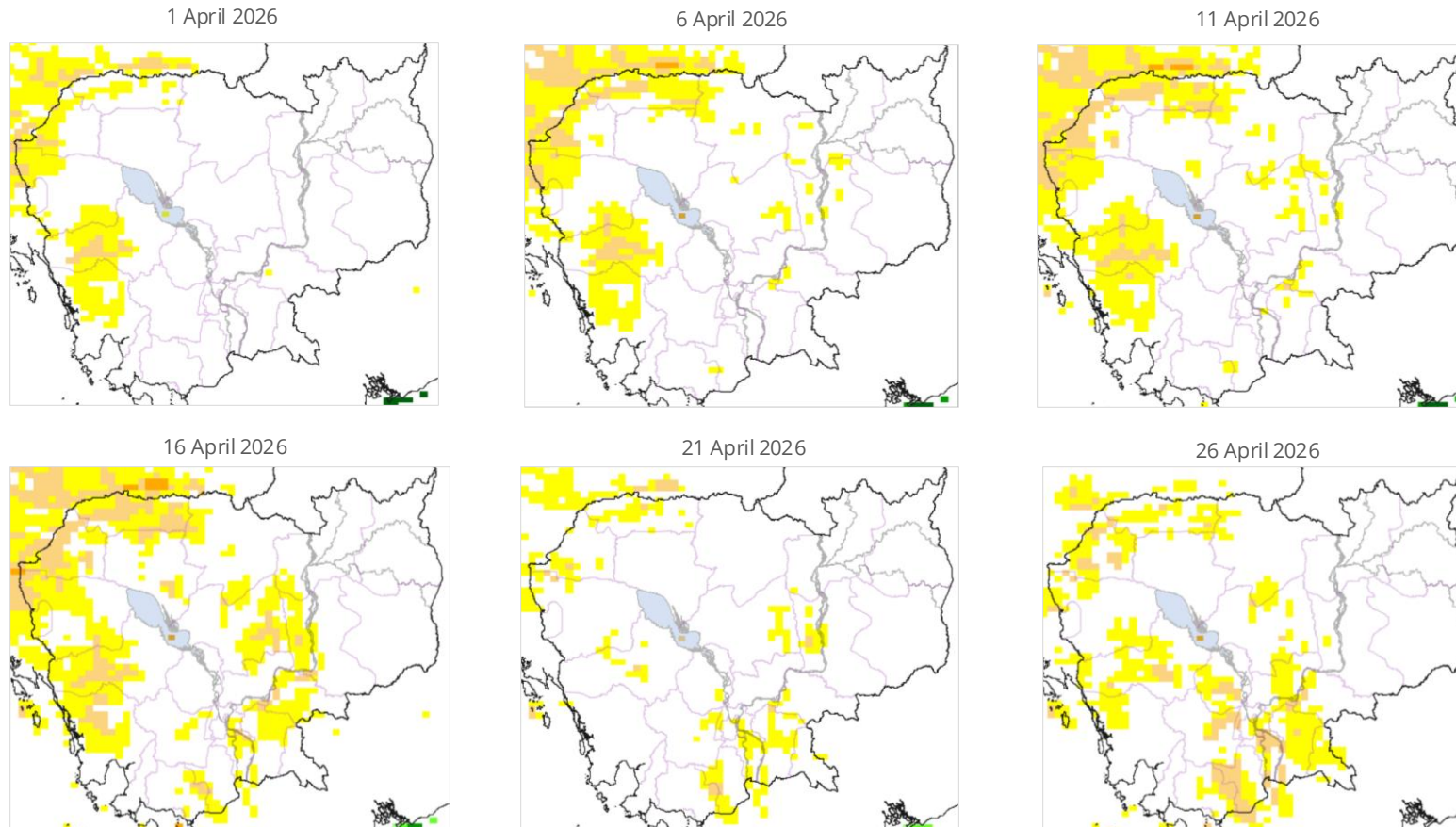


Source: MoWRAM's Department of Hydrology and River Works

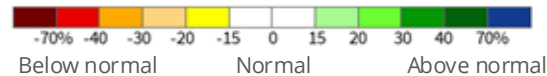
■ flood    
 ■ alarm    
 ■ Mean    
 ■ 2026

Soil moisture in April remained generally favorable nationwide, supporting dry-season crop production (maps below). However, the combined effects of reduced rainfall and elevated temperatures have increased localized moisture stress in the western and southern regions.

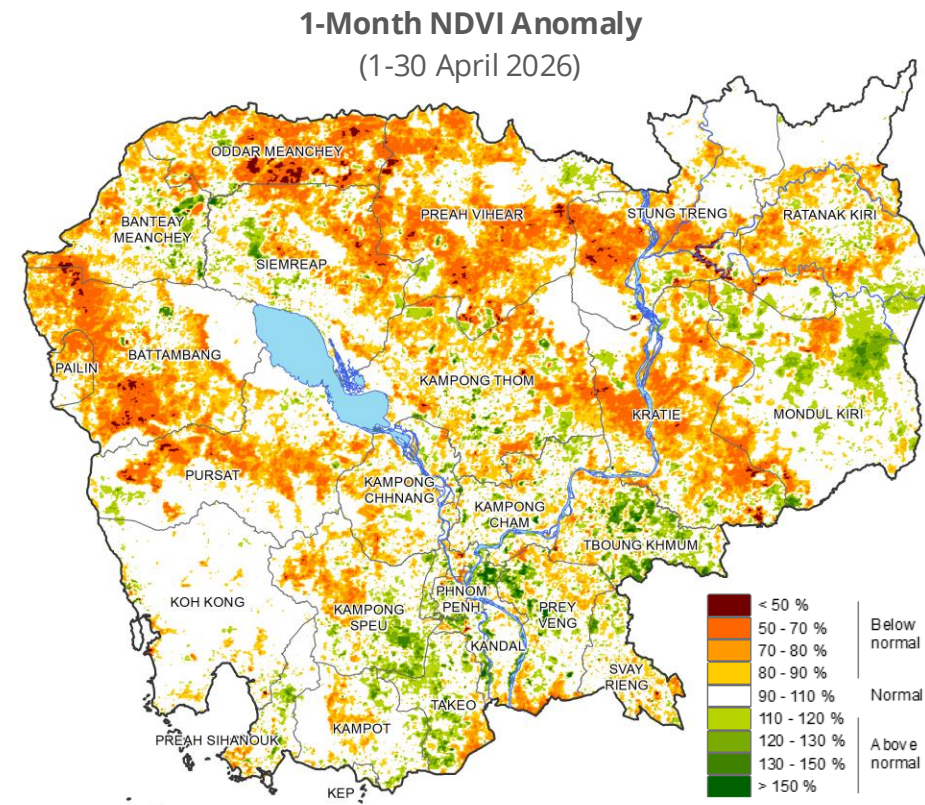
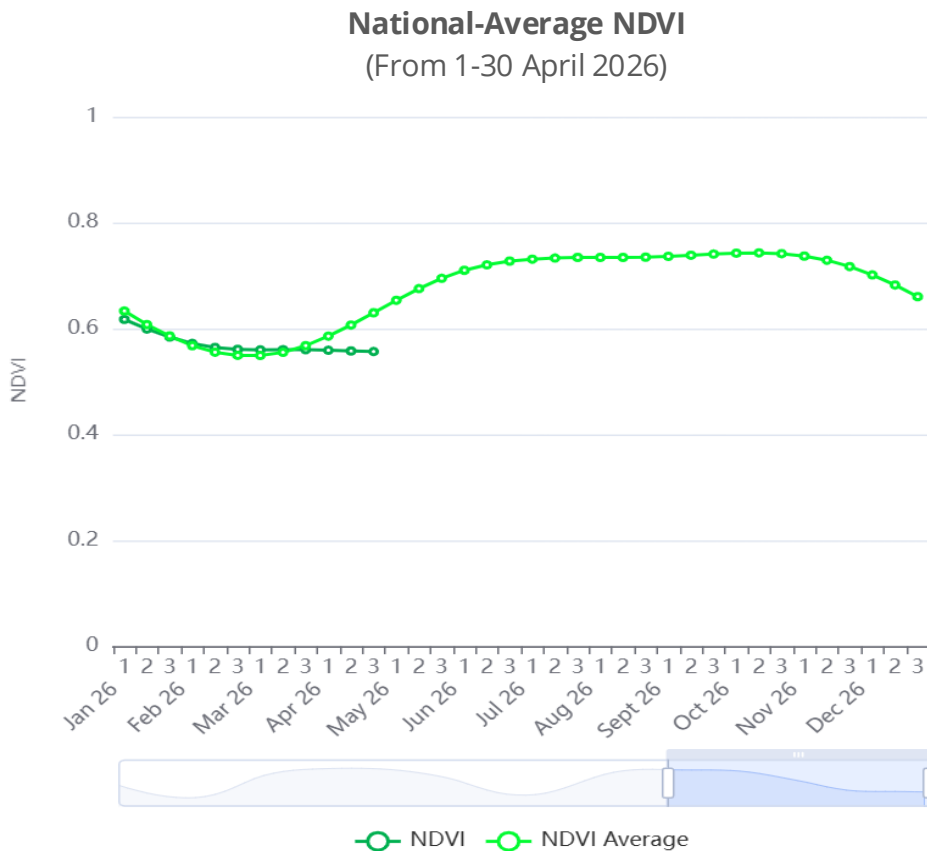
## Soil Moisture (Root zone: 0-100 cm) Anomaly



Source: USDA (NASA/GMAO SMAP)



Vegetation conditions were moderately below the long-term average nationwide (chart below, left), with greater reductions in the west, north, and east, where elevated temperatures and prolonged heat stress persisted (map below, right). Despite these declines, most dry-season paddy areas remained generally healthy—particularly in the Tonle Sap region and southern plains—supported by favorable soil-moisture conditions.

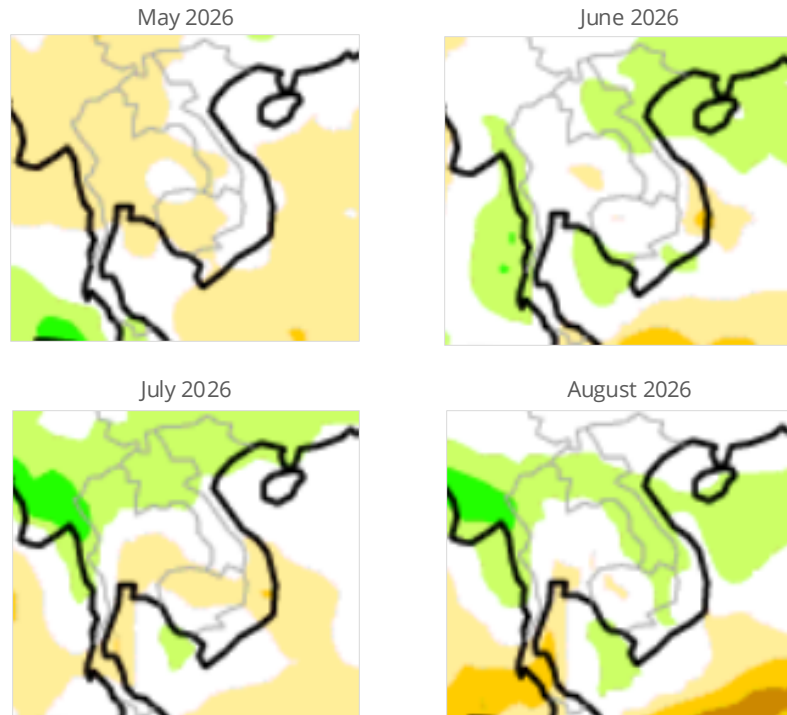


Source: NDVI from MODIS and analysis by WFP

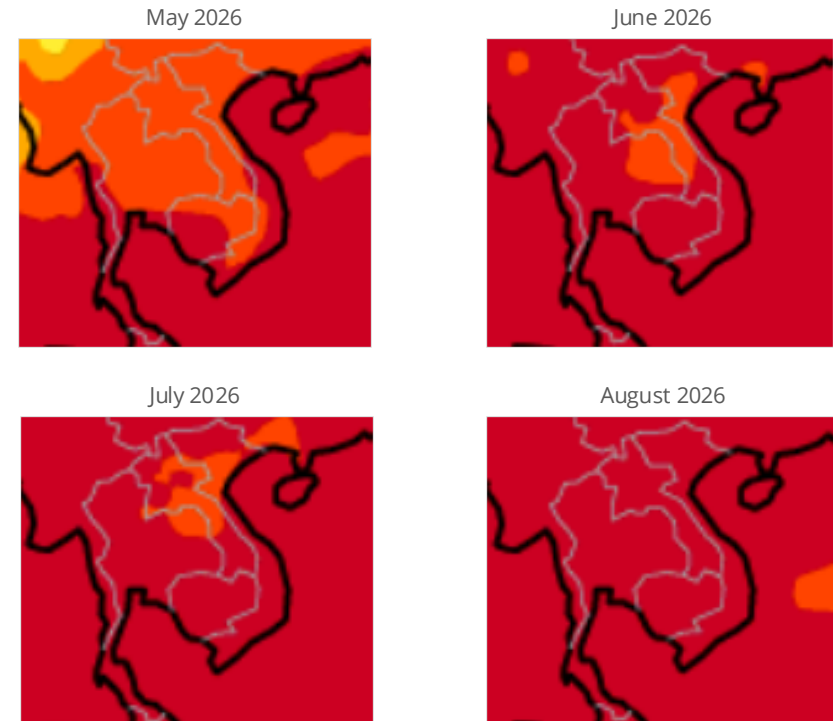
Recent forecasts of the [El Niño–Southern Oscillation \(ENSO\)](#) from [CPC/NOAA](#) indicate a very high probability that El Niño will develop during May–July 2026 and persist through the remainder of the year. Under these evolving conditions, Cambodia is expected to experience increasingly erratic rainfall and warmer-than-normal temperatures during the upcoming season (May–August 2026), characterized by:

- A higher likelihood of below-normal rainfall in parts of the country, particularly in the western and northern regions, heightening the risk of dryness.
- An increased probability of localized heavy rainfall events, especially in the southern and eastern areas, raising the risk of flash flooding.
- Above-normal temperatures nationwide, increasing the likelihood of heat-stress conditions.

## Seasonal Rainfall Forecast



## Seasonal Temperature Forecast





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**For further information:**

WFP Cambodia - <https://www.wfp.org/countries/cambodia>

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