

**Drought and Flood Monitoring Bulletin**

*Providing Weather Climate and Water Information for Safety and Sustainable Development*

**Monthly Bulletin**

**ISSN 2315-9804**

**APRIL, 2019**

**PREAMBLE**

The April edition of the Drought and Flood Monitoring Bulletin (DFMB) was prepared using the WMO recommended practice, the Standardized Precipitation Index (SPI). During the period under review, considerable parts of the country were under normal condition except for a few places with extreme to mild degrees of wetness and dryness as a result of above and below rainfall amounts recorded in comparison with the long term normal.

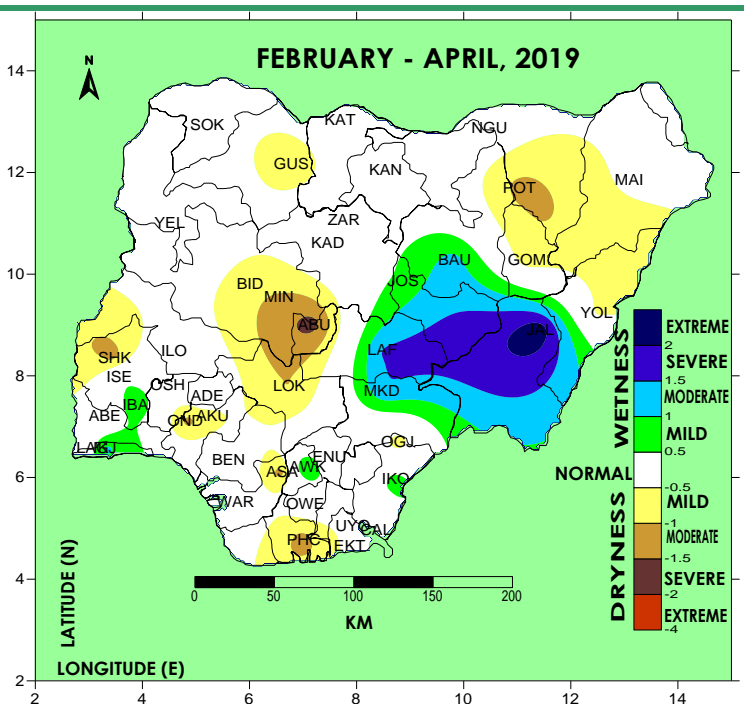
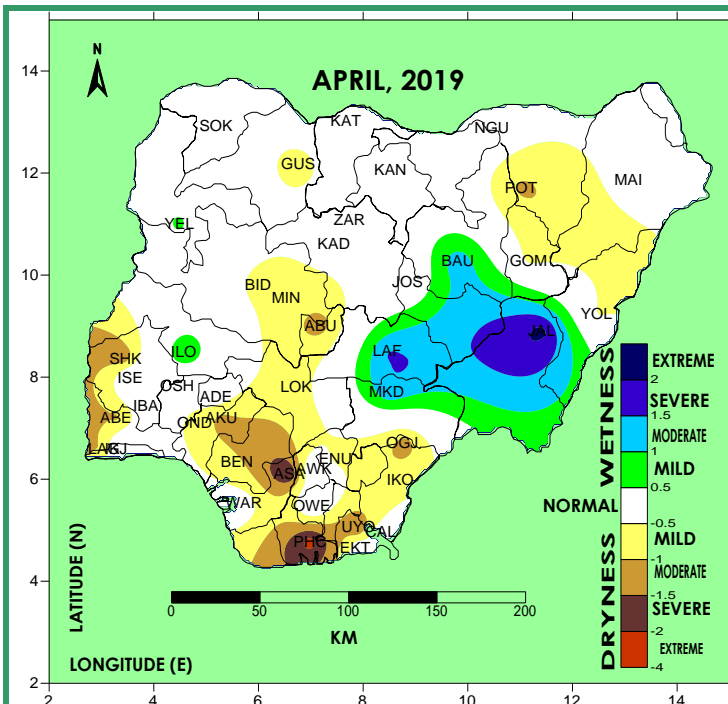


Fig. 1: 1-Month Standardized Precipitation Index (for meteorological drought)

Fig. 2: 3-Month Standardized Precipitation Index (for agricultural drought)

**OBSERVED FEATURES**

The 1-month Standardized Precipitation Index (SPI) shows that normal condition prevailed over most parts of the country except for parts of Kebbi, Bauchi, Plateau, Adamawa, Nasarawa, Benue and Kwara states that experienced mild-to-extreme wetness. In contrast, mild-to-extreme dryness over Zamfara, Yobe, Adamawa, Gombe, Niger, FCT, Kogi, Oyo, Kwara, Ogun, Lagos, Edo, Anambra, Akwa Ibom, Cross River, Bayelsa, and Rivers was observed.

The 3-month Standardized Precipitation Index (SPI) indicates mild-to-extreme wetness over parts of Bauchi, Plateau, Adamawa, Nasarawa, Benue, Oyo, Ogun, Lagos, Anambra, and Cross River States. However, locations such as Borno, Yobe, Zamfara, Adamawa, Gombe, Niger, FCT, Kogi, Oyo, Ondo, Edo, Delta, Akwa Ibom, Cross River, Bayelsa, and Rivers states experienced mid-to-extreme dryness.

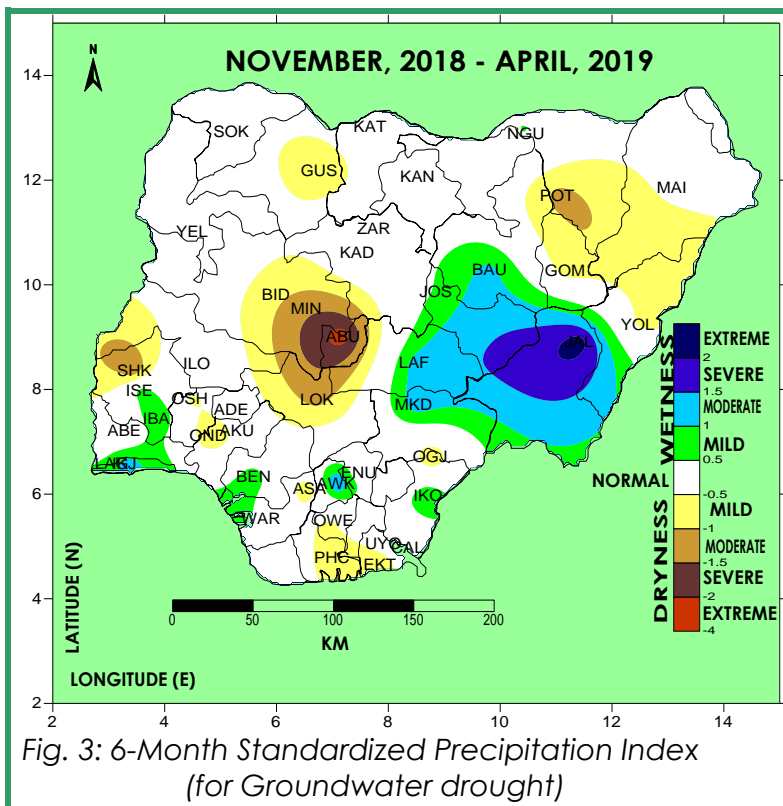


Fig. 3: 6-Month Standardized Precipitation Index (for Groundwater drought)

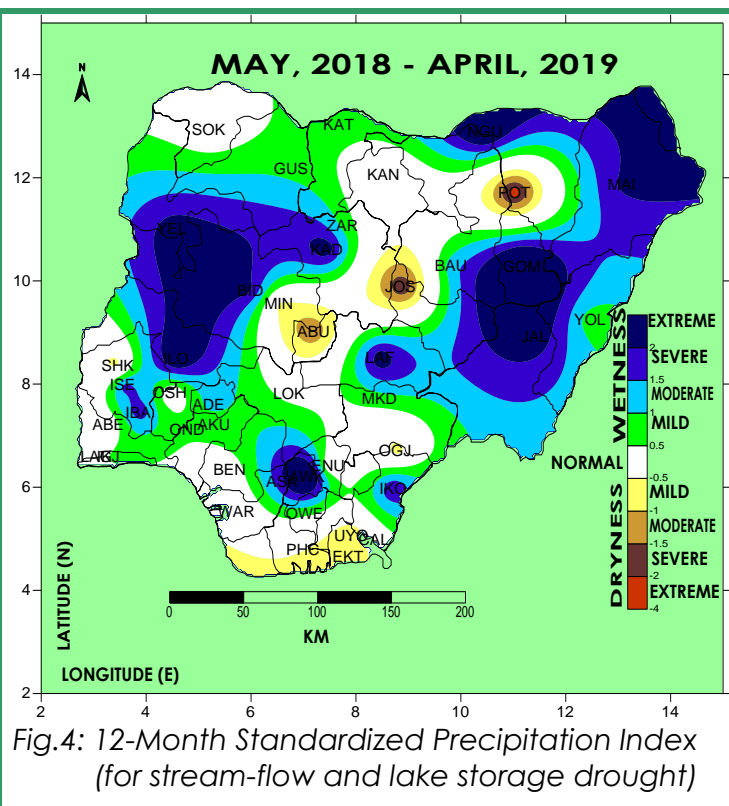


Fig.4: 12-Month Standardized Precipitation Index (for stream-flow and lake storage drought)

The cumulative rainfall analysis (SPI-6) for groundwater monitoring reveals mild-to-extreme wetness over parts of Yobe, Bauchi, Taraba, Plateau, Adamawa, Nasarawa, Benue, Oyo, Ogun, Lagos, Edo, Delta, Anambra and Cross River States. Groundwater resource in these areas is however expected to be positively supported as the season progresses. Meanwhile, mild-to-extreme dryness were witnessed over parts of Borno, Yobe, Adamawa, Gombe, Zamfara, Niger, FCT, Kogi, Oyo, Ondo, Delta, Akwa Ibom, Cross River and Rivers states.

The 12-month Standardized Precipitation Index (SPI) for stream flows and lake storage monitoring showed wetter-than-normal condition over most parts of the country. This situation portends positive recharge for streams and lakes except for parts of Yobe, Bauchi, Plateau, Kaduna, FCT, Niger, Akwa Ibom, Rivers and Bayelsa states with records of mild-to-extreme dryness.

### OUTLOOK FOR MAY, 2019

The dry conditions witnessed in some parts of the country is expected to gradually improve where onset has been established. Hence, Agricultural, Maritime and Hydrological activities are expected to be on the increase.

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