



Monthly Hydrological Bulletin Report (JNHPP)

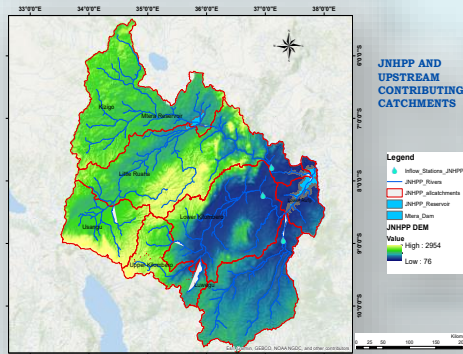
July (2026)

Summary of Water Status

The Julius Nyerere Hydropower Plant (JNHPP) is located at Stiegler's Gorge on the Rufiji River in Tanzania. The Plant (JNHPP) receives water from three major rivers of the Rufiji Basin: the Great Ruaha, Kilombero, and Luwegu rivers which together provide the inflow required for power generation. These rivers are also essential for sustaining agriculture, supplying water for domestic and industrial use, supporting livestock, and maintaining the ecological integrity of the basin.

By the end of July 2026, the rivers flowing into the Julius Nyerere Hydropower Plant (JNHPP) had inflows that were 141% above the long-term average for the same month. This was mainly due to the average rainfall received in the upper catchment areas and the effective management of water resources in the Rufiji Basin.

As a result, the reservoir water level reached 183.43m above mean sea level (amsl), which was 101.91% of the long-term average for July.



Weather Status

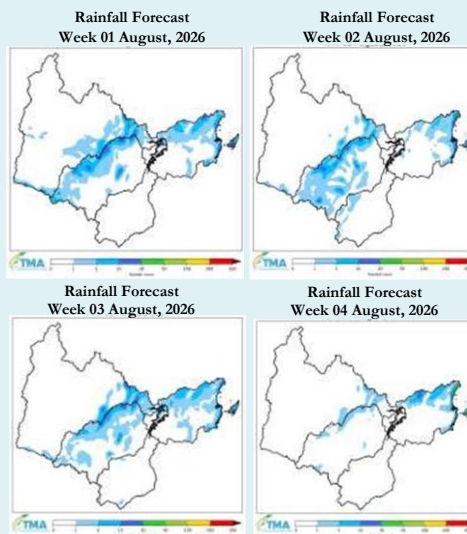
Rainfall – July 2026:

Rainfall records indicate that most parts of the Basin experienced dry conditions throughout July 2026. As a result, there was very little surface runoff, leading to reduced flows in rivers and streams, especially those that depend mainly on seasonal rainfall.

Weather Outlook – August 2026:

According to the weather forecast issued by the Tanzania Meteorological Authority (TMA):

Most areas of the Rufiji Basin are expected to experience generally dry throughout August 2026.



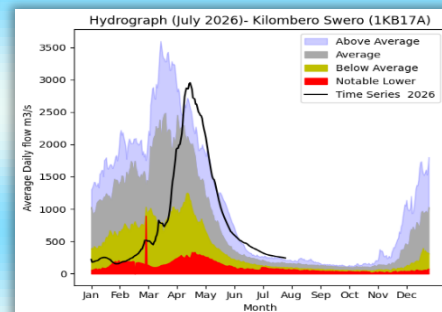
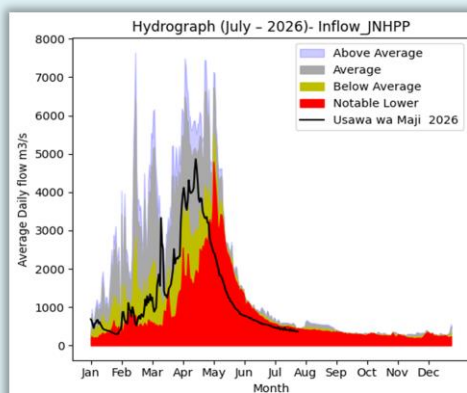
River Flow Status

Average River flow volumes during July 2026 remained above the long-term average (LTA: 2000–2025). Table 1 presents a comparison of average river flows recorded in July 2026 against the long-term average for the same period.

Table 1: Water Flow Statistics Analysis – July 2026

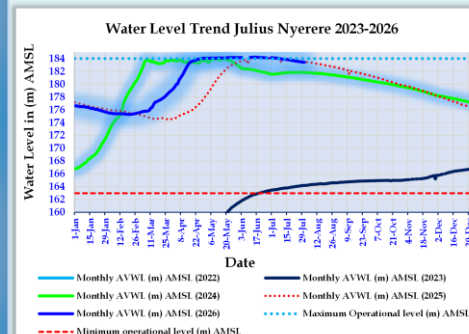
No.	Station Code	River	Average Flow (m ³ /s) – July 2026	LTA – July (2000–2025)	Remarks
1	1KA3B	Great Ruaha at Msolwa	117.00	67.51	Notable High
2	1KB17 A	Kilombero at Swero	281.29	176.52	Notable High
3	1KC3A	Luwegu at Mbarang'andu	9.64	10.80	Average

Inflow to the Julius Nyerere Dam gradually declined from July to August 2026. However, reservoir levels remained above the long-term average, indicating stable river flow conditions. This situation reduces the risk of reservoir depletion and supports reliable and efficient hydropower generation.



Reservoir Water Status

- The water level in the Julius Nyerere Hydropower Plant (JNHPP) remained above the long-term average during July 2026. This was due to the average rainfall received in the upper catchments and the effective management of water resources across the Rufiji Basin.
- By the end of July 2026, the water level in the JNHPP reservoir reached 183.43m above mean sea level (amsl), which was 101.91% of the long-term average for the same month.



Recommendations

- Reservoir management should continue to follow the established reservoir operational principles to maintain adequate water storage for hydropower production and other essential water uses.
- To ensure the sustainable use of available water resources during the dry season, all water users should strictly adhere to the conditions and abstraction limits specified in their water use permits.