

# AGROMETEOROLOGICAL BULLETIN

No.27: 2022/23 Cropping Season

Review of June 21-30, 2023, and Outlook for July 1-10, 2023

## HIGHLIGHTS

- Most parts of the country are expected to experience dry and cool conditions.
- The expected dry conditions are likely to favour crop drying, harvesting and storage.
- Farmers, fishers, and livestock keepers are advised to use weather forecast updates in consultation with extension agents for proper management of their activities.

## SYNOPTIC SUMMARY DURING JUNE 21-30, 2023

During this dekad, the strength of the southern hemisphere high pressure systems (St. Helena and Mascarene) slightly intensified while the northern hemisphere high pressure systems (Azores and Siberian) relaxed. This scenario slightly enhanced wind speed over the coastal areas. On the other hand, the Sea Surface Temperatures (SSTs) over the Indian Ocean were generally neutral over the eastern side and slightly warmer than normal over the western side. This condition had minimal contribution in the advection of maritime winds toward the coastal areas. The observed warmer than normal SSTs over the southeast Atlantic Ocean (near Angola coast) had less contribution in advection of moist westerly wind from Congo basin towards the western sector of the country.

## RAINFALL PERFORMANCE DURING JUNE 21-30, 2023

During this dekad, most of the country was generally dry except in Kagera region which received rainfall amount ranging from 26 mm to 125 mm as indicated in Figure 1.

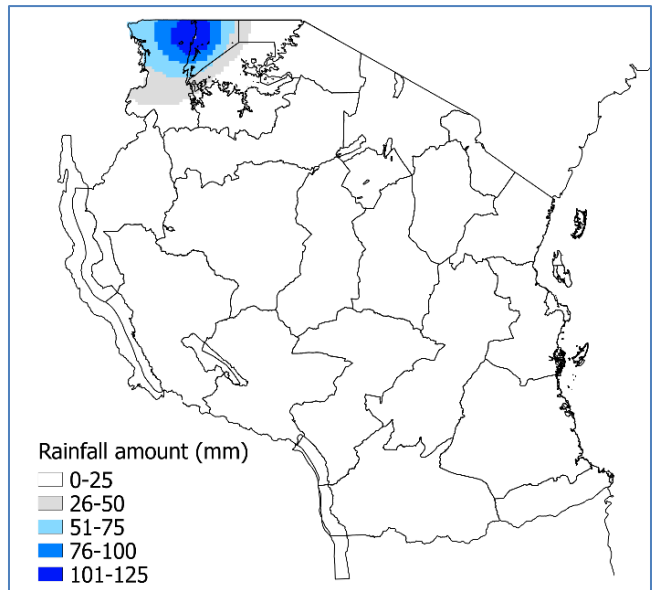


Figure 1: Total rainfall for the period of June 21-30, 2023

## AGROMETEOROLOGICAL SUMMARY DURING JUNE 21-30, 2023

During this dekad, maize crop in most parts of the bimodal rainfall regime especially Mwanza, Simiyu, Mara, Kagera, Morogoro, Arusha, and Pwani regions was reported to be at full ripeness stage. The paddy crop was at dry-out stage particularly over Pwani and Morogoro regions and most farmers were engaged with harvesting. On the other hand, in most parts of the unimodal rainfall regime, farmers were mostly engaged with harvesting and storage of maize and paddy crops, except in Iringa and Njombe regions where maize crop was at full ripeness and dry-out stages. Water availability and pastures remained normal.

## HYDROMETEOROLOGICAL CONDITIONS

DURING JUNE 21-30, 2023

Water levels in dams and river flow discharges remained normal in most areas of the country.

## EXPECTED SYNOPTIC CONDITIONS

FROM JULY 1-10, 2023

During this dekad, the southern hemisphere high pressure systems are expected to continue intensifying while its counterparts, the northern hemisphere high pressure systems relaxing. This scenario is expected to maintain the ridging high over the country and successively periods of moderate to strong wind along the coastal belt while advecting cool air to some areas of the country. On the other hand, the SSTs over the eastern side of the Indian Ocean are expected to be generally neutral and slightly warmer than normal over the western side. This condition is expected to have slight contribution in the advection of maritime winds toward the coastal areas. Over the southeast Atlantic Ocean (near Angola coast), the SSTs are expected to be warmer than normal and this scenario will have less contribution in the transfer of moist westerly wind from Congo basin towards the western sector of the country.

## EXPECTED WEATHER CONDITION DURING

JULY 1-10, 2023

Areas around Lake Victoria basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu and Mara) are expected to feature isolated cases of thunderstorms.

Northern coast (Tanga, northern part of Morogoro, Pwani and Dar es Salaam together with isles of Unguja and Pemba) are expected to feature light rain showers with periods of moderate to strong winds.

Northeastern highlands (Arusha, Manyara and Kilimanjaro), southwestern highlands (Rukwa, Songwe, Mbeya, Njombe and Iringa), southern coast (Mtwara and Lindi), southern region (Ruvuma and southern part of Morogoro) and central areas (Dodoma and Singida) are expected to feature mainly dry with cool condition.

Western regions (Kigoma, Katavi and Tabora) are expected to feature mainly dry condition.

## AGROMETEOROLOGICAL OUTLOOK AND

ADVISORY DURING JULY 1-10, 2023

The expected dry conditions over northeastern highlands, southwestern highlands, southern coast, southern region, central areas and western regions will continue favouring harvesting, drying and storage of maize and paddy crops.

Farmers and extension officers are advised to continue making follow-ups on crop fields for the management and control of pests and diseases. The fishing communities are advised to continue making good use of daily weather forecasts and advisories including marine forecasts for the Indian Ocean and the great lakes for better decisions.

Livestock keepers are also advised to ensure their animals are protected against adverse weather and outbreak disease associated with cold weather conditions.

Generally, it is advised to utilize weather forecasts and updates for their day-to-day activities.

## EXPECTED HYDROMETEOROLOGICAL CONDITIONS

DURING JULY 1-10, 2023

Water levels in dams and river flow discharges are expected to start decreasing due to dry and windy conditions.

The communities are advised to make good use of available water following setting in of the dry season in many areas of the country.