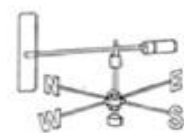




# TANZANIA METEOROLOGICAL AUTHORITY



## AGROMETEOROLOGICAL BULLETIN

No.28: 2022/23 Cropping Season

Review of July 1-10, 2023, and Outlook for July 11-20, 2023

### HIGHLIGHTS

- Most parts of the country are expected to experience dry and cool conditions.
- The expected strong winds and large waves particularly over coastal belt may affect fishing activities.
- Due to expected dry and windy conditions over most part of the country, livestock keepers are advised to make good use of available water and pastures.

### SYNOPTIC SUMMARY DURING

JULY 1-10, 2023

**D**uring this dekad, the southern hemisphere high pressure systems (St. Helena and Mascarene) continued to intensify while their counterpart's northern hemisphere high pressure systems (Azores and Siberian) relaxed. This scenario maintained 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, Sea Surface Temperatures (SST's) in the Indian Ocean were neutral over the eastern side and slightly warmer than normal over the western side. This condition contributed in the advection of maritime winds toward the coastal areas. Over the southeast Atlantic Ocean (near Angola coast), SSTs were warmer than normal, the scenario which had less contribution in the transference of moist westerly wind from Congo basin towards the western sector of the country.

### RAINFALL PERFORMANCE DURING

JULY 1-10, 2023

**D**uring this dekad, most areas of the country were generally dry with exceptional of few areas in Morogoro, Njombe, Ruvuma, Simiyu, Manyara and Kilimanjaro together with Unguja and Pemba Islands that received rainfall amount between 11 to 50 mm as indicated in Figure 1.

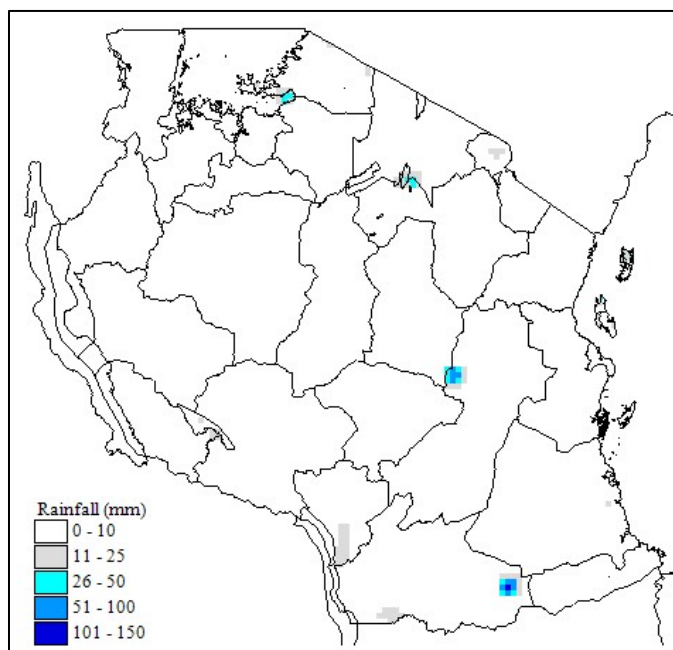


Figure 1: Total rainfall estimates from satellite data for the period of July 1-10, 2023

### AGROMETEOROLOGICAL SUMMARY DURING

JULY 1-10, 2023

**D**uring 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 to dry-out stage. The paddy crop was at dry-out stage particularly over Pwani and Morogoro regions and most farmers were finalising with harvesting and storage activities. 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 Njombe region where maize crop was at full ripeness and dry-out stages.

Availability of water and pastures for livestock have remained normal in most areas of the country.

## HYDROMETEOROLOGICAL CONDITIONS

DURING JULY 1-10, 2023

Water levels in dams and river flow discharges slightly decreased in most areas of the country.

## EXPECTED SYNOPTIC CONDITIONS

FROM JULY 11-20, 2023

During this dekad, the northern hemisphere high pressure systems are expected to relax and the southern hemisphere high pressure systems are expected to maintain its intensification. This situation is expected to maintain the ridging high over the country and periods of moderate to strong wind along the coastal belt.

SSTs over the southeast Atlantic Ocean (near Angola coast), over the western Indian ocean and over the Central Equatorial Pacific Ocean are expected to be slight warmer. On the other hand, SSTs over the eastern Indian Ocean are expected to be slight cooler. These conditions are expected to have slightly contribution in the advection of maritime winds toward the coastal areas with no contribution in the transference of moist westerly wind from Congo basin towards the western sector of the country.

## EXPECTED WEATHER CONDITION DURING

JULY 11-20, 2023

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

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

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

Southern coast (Mtwara and Lindi) is expected to feature mainly dry condition with periods of moderate to strong winds and large waves are expected.

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

## AGROMETEOROLOGICAL OUTLOOK AND ADVISORY DURING JULY 11-20, 2023

The expected dry conditions over northeastern highlands, southwestern highlands, southern region, central areas and western regions will continue favouring harvesting, drying and storage of maize and paddy crops. In addition, the expected cold weather in various parts of the country may lead to delaying crop maturity and cold related diseases to livestock.

The expected strong winds and large waves particularly over coastal belt may likely affect fishing activities. However, 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.

Due to expected dry conditions over most part of the country, livestock keepers are advised to make good use of available water and pastures.

## EXPECTED HYDROMETEOROLOGICAL CONDITIONS

DURING JULY 11-20, 2023

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

The communities are advised to make good use of available water due to prevailing dry condition in many areas of the country.