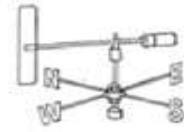




TANZANIA METEOROLOGICAL AUTHORITY



AGROMETEOROLOGICAL BULLETIN

No.01: 2023/24 Cropping Season

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

HIGHLIGHTS

- The expected rainfall over areas around Lake Victoria, western regions, and the northern coast is likely to favor soil moisture replenishment
- Farmers from bimodal areas are advised to continue with land preparation and they can plant crops when sufficient soil moisture is realized
- Communities are advised to make good use of available water due to prevailing dry conditions in many areas of the

SYNOPTIC SUMMARY DURING OCTOBER 1-10, 2023

During this dekad, the southern hemisphere high pressure systems (St. Helena and Mascarene) continued relaxing while the northern hemisphere high pressure systems (Azores and Siberian) continued intensifying. This condition continued to maintain the meridional arm of the Inter Tropical Convergence Zone (ITCZ) over some areas of the Lake Victoria basin and the western part of the country. Slightly warmer Sea Surface Temperatures (SSTs) were observed over a large part of the Indian Ocean, this condition slightly influenced the advection of moist maritime winds from the Indian Ocean towards the coastal areas.

RAINFALL PERFORMANCE DURING OCTOBER 1-10, 2023

During this dekad, some areas of the country were generally dry except over a few areas in the Lake Victoria basin, southwestern highlands, western, northeastern highlands and northern coast which experienced rainy conditions. However, a few areas in Tanga, Mara, Simiyu, and Katavi received between 26 to 100 mm of rainfall within 10 days as indicated in Figure 1.

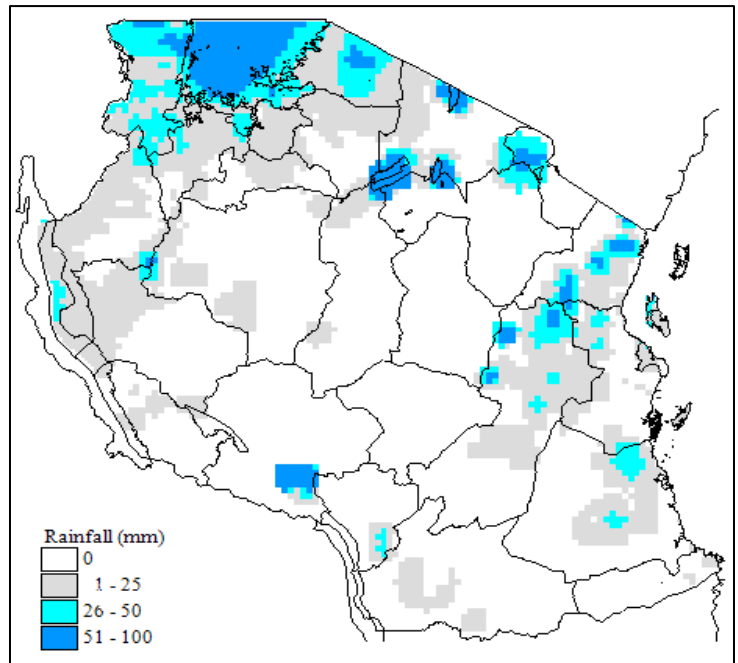


Figure 1: Total rainfall estimates from satellite data for the period of October 1-10, 2023

AGROMETEOROLOGICAL SUMMARY DURING OCTOBER 1-10, 2023

During this dekad, most parts of the country experienced dry conditions, especially the unimodal areas. This condition affected water availability but favoured land preparation activities, particularly over bimodal areas. However, some areas over the Lake Victoria basin and the western part of the country experienced periods of rainy conditions that supported soil moisture replenishment over those areas that helped pasture growth for wildlife and livestock. Most farmers over bimodal areas were engaged in land preparation and

planting except in the Kagera region where maize crops were at the third leaf stage.

Water and pasture availability for livestock slightly decreased in most areas of the country.

**HYDROMETEOROLOGICAL CONDITIONS
DURING OCTOBER 1-10, 2023**

Water levels in dams and river flow discharges continue decreasing in most areas of the country due to the prevailing dry conditions.

**EXPECTED SYNOPTIC CONDITIONS
DURING OCTOBER 11-20, 2023**

During this period, the southern hemisphere high pressure systems (St. Helena and Mascarene) are expected to continue relaxing while the northern hemisphere high pressure systems (Azores and Siberian) are expected to continue intensifying.

This condition is expected to maintain the meridional arm of ITCZ over some areas of the Lake Victoria basin and the western part of the country. Slightly warmer than normal SSTs are expected over the western Indian Ocean while neutral to slightly cool SSTs are expected over the eastern Indian Ocean. This condition is expected to influence the advection of moist maritime winds towards the coastal areas especially during the second half of the dekad

**EXPECTED WEATHER CONDITIONS DURING
OCTOBER 11-20, 2023**

Areas around Lake Victoria Basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu, and Mara regions) and western regions (Kigoma, Katavi, and Tabora regions) are expected to feature thundershowers over a few areas.

Northeastern highland (Arusha, Manyara, and Kilimanjaro regions) is expected to feature rain showers over a few areas.

The northern coast (Tanga, northern part of Morogoro, Pwani, and Dar es Salaam region together with isles of Unguja and Pemba) is expected to feature rain showers over a few areas, especially during the second half of the dekad.

Southern coast (Mtwara and Lindi regions), southern region (Ruvuma and southern part of Morogoro regions), southwestern highlands (Rukwa, Songwe, Mbeya, Njombe, and Iringa regions), and central areas (Dodoma and Singida regions) are expected to feature dry conditions.

**AGROMETEOROLOGICAL OUTLOOK AND
ADVISORY DURING OCTOBER 11-20, 2023**

The expected rainfall over areas around Lake Victoria, western regions and the northern coast is likely to favor soil moisture replenishment.

Farmers from bimodal areas are advised to continue with the preparation for the *Vuli* cropping season including seed selection and other agricultural inputs. They are also advised to plant crops when sufficient soil moisture is realized.

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 persistent dry conditions expected particularly over unimodal areas, livestock keepers are advised to use carefully the available water and pastures.

**EXPECTED HYDROMETEOROLOGICAL
CONDITIONS DURING OCTOBER 11-20, 2023**

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

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