

HIGHLIGHTS

- Farmers in unimodal rainfall areas are advised to continue with crop weeding, application of fertilizers and control of pests and diseases in consultation with extension officers
- Generally, maize crop particularly in Kigoma, Mbeya, Njombe and Rukwa was in good condition
- Farmers, fishers and livestock keepers are advised to utilize weather forecast and updates as issued by TMA.

**SYNOPTIC SUMMARY DURING
JANUARY 11-20, 2023**

During this dekad, the northern hemisphere high pressure systems (Azores and Siberian) slightly relaxed while the southern hemisphere high pressure systems (St. Helena and Mascarenes) slightly intensified. This condition continued to squeeze the Inter Tropical Convergence Zone (ITCZ) slightly towards some areas along the southern sector, western parts and along the coastal belt. The Sea Surface Temperatures (SSTs) over the western Indian Ocean were observed to be neutral while the eastern Indian Ocean was neutral to slightly cooler than normal.

This condition had less influence on the advection of moist maritime wind towards the coastal belt. SSTs over the southeast Atlantic Ocean (near Angola coast) were observed to be mainly neutral with less contribution in the advection of moist winds from Congo basin towards the western sector of the country. On the other hand, the active phase of the Madden Julian Oscillation (MJO) during this dekad influenced the isolated thundery activities captured over some areas of the country.

**RAINFALL PERFORMANCE DURING
JANUARY 11-20, 2023**

During the dekad under review, most areas experienced rainfall amounts ranging from 11 mm to 150 mm of rainfall. However, most areas in Manyara, Kilimanjaro, and Arusha regions as well

as Unguja and Pemba islands received less than 10 mm of rainfall as indicated in Figure 1.

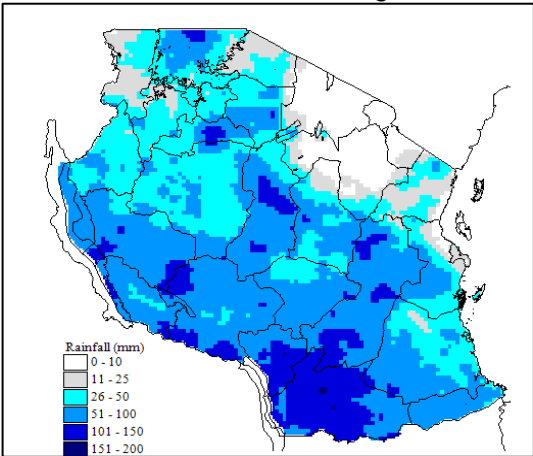


Figure 1: Total rainfall for the period of January 11-20, 2023.

**AGROMETEOROLOGICAL SUMMARY DURING
JANUARY 11-20, 2023**

The rainfall experienced in most areas of the country favoured crop growth and development following the soil moisture replenishment. Over Kagera, Tabora, and Kigoma regions, maize crop was between flowering and wax ripeness stages. In most areas of unimodal, the maize crop was at third to ninth leaf and some farmers were engaged in weeding activities and pesticide application. Irish potatoes were at the flowering stage in Njombe and Mbeya regions. Over areas suitable for paddy crop cultivation, particularly Tabora, Morogoro, Mbeya, and Rukwa regions, farmers continued with paddy planting. Generally, the maize crop particularly in unimodal areas was in good condition.

No.12: 2022/23 Cropping Season

Pastures and water availability for livestock and wildlife have continued to improve in most areas of the country due to the experienced rainfall conditions.

HYDROMETEOROLOGICAL CONDITIONS DURING JANUARY 11-20, 2023

Water levels in dams and river flow discharges continued improving due to experienced rainfall conditions.

EXPECTED SYNOPTIC CONDITIONS DURING JANUARY 21-31, 2023

During this dekad, the northern hemisphere high pressure systems are expected to maintain its strength while the southern hemisphere high pressure systems are expected to slightly intensify. This condition is expected to squeeze the ITCZ slightly northwards to some areas along the southern sector and western parts of the country.

The SSTs over the western Indian Ocean are expected to be slightly warmer than normal and likely to trigger the formation of tropical disturbances over the area. Low level westerly wind anomaly is expected mainly during the first half of the dekad and likely to favour moisture influx from Congo basin towards the western sector of the country. This scenario significantly contribute on rainfall activities over some areas of the western sector of the country, south western highland, coastal areas, southern region, central and Lake Victoria basin mainly during the first half of the dekad.

Additionally, the MJO is expected to be in active phase over the country favouring rainfall activities over some areas of the country mainly during the first half of this dekad.

EXPECTED WEATHER DURING JANUARY 21-31, 2023

Few areas around Lake Victoria basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu, and Mara regions) are expected to feature thundershowers.

Western areas (Kigoma, Katavi, and Tabora regions), south western highlands (Rukwa, Songwe, Mbeya, Njombe and Iringa regions) southern areas (Ruvuma and southern part of

Review of January 11-20, 2023 and Outlook for January 21-31, 2023

Morogoro regions) and central areas (Dodoma and Singida regions) are expected to feature thundershowers over some areas.

The north eastern highlands (Arusha, Manyara and Kilimanjaro regions) are expected to feature light rain showers over few areas.

The northern coast (Tanga, northern part of Morogoro, Pwani, and Dar es Salaam regions together with isles of Unguja and Pemba) is expected to feature rain showers with isolated cases of thunderstorms mainly during the first half of the dekad.

The southern coast (Mtwara and Lindi regions) is expected to feature thundershowers over some areas mainly during the first half of the dekad.

AGROMETEOROLOGICAL OUTLOOK AND ADVISORY DURING JANUARY 21-31, 2023

The expected rainy condition in most areas of the country is likely to continue supporting crop growth and development due to the expected soil moisture replenishment.

Farmers in unimodal rainfall areas are advised to continue with crop weeding, fertilizer application, and control of pests and diseases in consultation with extension officers from their localities.

Farmers over bimodal areas are advised to harvest rainwater that can be used for irrigation and support the late-planted crops.

Fishers are advised to continue making good use of daily weather forecasts including marine forecast from Indian Ocean and from all great lakes for better decisions on fishing activities.

Farmers, fishers and livestock keepers are advised to utilize weather forecasts and updates as issued by TMA.

EXPECTED HYDROMETEOROLOGICAL CONDITIONS DURING JANUARY 21-31, 2023

Water levels in dams and river flow discharges are expected to continue improving due to the expected rainfall. However, communities are advised to harvest rainwater for future use.