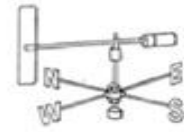




TANZANIA METEOROLOGICAL AUTHORITY



AGROMETEOROLOGICAL BULLETIN

No.29: 2022/23 Cropping Season

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

HIGHLIGHTS

- Most parts of the country are expected to experience mainly cool and dry 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 11-20, 2023

During this dekad, the northern hemisphere high pressure systems (Azores and Siberian) continued to relax while their counterparts the southern hemisphere high pressure systems (St. Helena and Mascarene) intensified. This situation maintained the ridging high over the country with periods of moderate to strong wind along the coastal belt. Sea Surface Temperatures (SSTs) over the southeast Atlantic Ocean (near Angola coast), over the western Indian Ocean, and over the Central Equatorial Pacific Ocean were observed to be slightly warmer. On the other hand, SSTs over the eastern Indian Ocean were observed to be slightly cooler. These conditions contributed to the advection of maritime winds toward the coastal areas with no contribution to the transference of moist westerly wind from the Congo basin towards the western sector of the country.

RAINFALL PERFORMANCE DURING JULY 11-20, 2023

During this dekad, most areas of the country were generally dry with few areas receiving less than 10 mm. However, few areas in Pemba Island received rainfall amounts ranging between 11 to 25 mm as indicated in Figure 1.

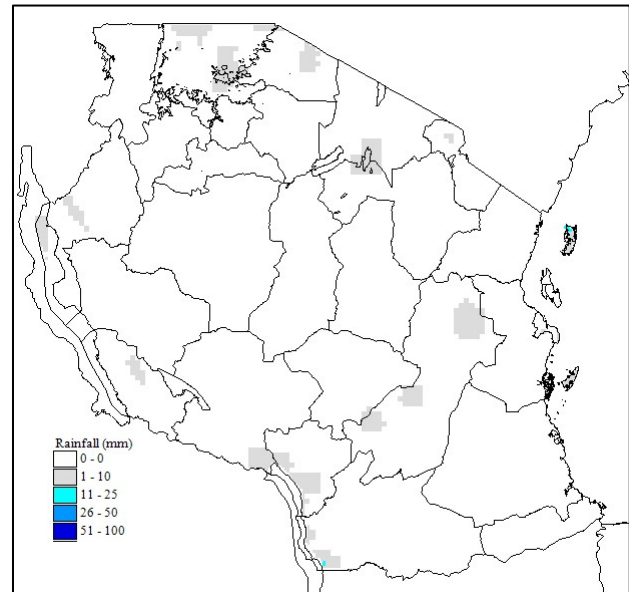


Figure 1: Total rainfall estimates from satellite data for the period of July 11-20, 2023

AGROMETEOROLOGICAL SUMMARY DURING JULY 11-20, 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 to dry-out stage and farmers are continuing with harvesting activities. On the other hand, in most parts of the unimodal rainfall regime, farmers were finalizing with crop harvesting and storage while farmers at Njombe region have started to harvest maize crop. The availability of water and pastures for livestock have remained normal in most areas of the country.

HYDROMETEOROLOGICAL CONDITIONS

DURING JULY 11-20, 2023

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

EXPECTED SYNOPTIC CONDITIONS

FROM JULY 21-31, 2023

During this dekad, the northern hemisphere high pressure systems are expected to relax while the southern hemisphere high pressure systems are expected to maintain their intensification. This situation is expected to maintain the ridging high over the country with periods of moderate to strong wind over some areas of the country. SSTs over the southeast Atlantic Ocean (near Angola coast), western Indian Ocean, and the Central Equatorial Pacific Ocean are expected to be slightly warmer. On the other hand, SSTs over the eastern Indian Ocean are expected to be slightly cooler. These conditions are expected to have slight contribution to the advection of moist maritime winds toward the coastal areas.

EXPECTED WEATHER CONDITION DURING

JULY 21-31, 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.

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

The Northeastern highlands (Arusha, Manyara, and Kilimanjaro) are expected to feature mainly dry with cool condition and short periods of light rain over the high-ground areas.

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 conditions.

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The southern coast (Mtwara and Lindi) is expected to feature mainly dry and cool conditions with pockets of light rain showers and periods of moderate to strong winds and large waves.

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

AGROMETEOROLOGICAL OUTLOOK AND

ADVISORY DURING JULY 21-31, 2023

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

The expected strong winds and large waves particularly over the 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 parts of the country, livestock keepers are advised to use available water and pastures sparingly.

EXPECTED HYDROMETEOROLOGICAL CONDITIONS

DURING JULY 21-31, 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.