

### HIGHLIGHTS

- Farmers are advised to continue making follow-ups on crops, and crop fields for management and control of the excessive water, and the outbreak of pests and diseases in consultation with extension officers from their localities.
- Livestock keepers are advised to plant more pastures and harvest rainwater for future use
- Water users are advised to harvest rainwater for future use

### SYNOPTIC SUMMARY DURING DECEMBER 11-20, 2024

**D**uring the dekad, the southern hemisphere high pressure systems (St. Helena and Mascarene) continued to relax while the northern hemisphere high pressure systems (Azores and Siberian) continued to intensify. This condition maintained the gradual southward movement of the meridional arm of the Inter Tropical Convergence Zone (ITCZ), into areas along the Lake Victoria Basin, central, western part of our country, and southwestern highlands.

On the other hand, the Sea Surface Temperature (SSTs) over the area between north of Madagascar and the East African coast were warmer than normal. This condition enhanced the formation of low-pressure systems particularly the tropical cyclone “CHIDO” over that area hence, improved the precipitation making mechanisms (a zonal arm of ITCZ) over coastal areas of our country and nearby areas.

The above weather systems resulted in thundershowers over most areas of the country. Moreover, periods of heavy rain were observed over a few areas of the northern coast.

### RAINFALL PERFORMANCE DURING DECEMBER 11-20, 2024

**D**uring the dekad, most areas of the country experienced rainy conditions with decadal rainfall amounts ranging from 1 mm to 100 mm. However, a few areas over Pwani, Tanga, and Kilimanjaro experienced decadal rainfall of more than 100 mm as shown in Figure 1.

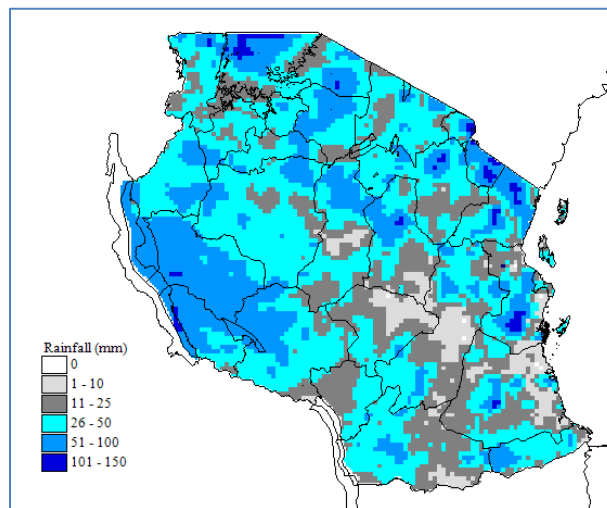


Figure 1: Total dekad rainfall for December 11-20, 2024

### AGROMETEOROLOGICAL SUMMARY DURING DECEMBER 11-20, 2024

**D**uring the dekad under review, most areas of the country experienced rainy conditions that supported crop establishment particularly maize that is in the flowering stage around the Lake Victoria basin and northern coast.

This condition also supported the crop planting, growth and development over the unimodal areas. Thus, maize crop are in vegetative stage in Tabora, Kigoma, and Katavi regions and farmers were engaged in weeding and fertilizer application particularly in Tabora region. Maize crops are in the third leaf stage in Songwe, Mbeya, and Njombe while farmers in Mtwara region were engaged in land preparation.

The coffee crop is in the flowering stage over Songwe and Kilimanjaro region.

Water and pasture for livestock and wildlife continued to improve particularly in the areas that experienced rain conditions.

#### HYDROMETEOROLOGICAL CONDITIONS

DURING DECEMBER 11-20, 2024

Water levels in dams and river flow discharges slightly increased due to rainy conditions experienced over most areas.

#### EXPECTED SYNOPTIC CONDITIONS

DURING DECEMBER 21-31, 2024

During this dekad the southern hemisphere high-pressure systems are expected to continue relaxing while the northern hemisphere high-pressure systems are expected to continue intensifying. This condition is expected to maintain the gradual southward movement of the meridional arm of the ITCZ, off the Lake Victoria Basin, especially during the second half of the dekad and remain over the central, western part of our country and southwestern highlands.

On the other hand, SSTs over the area between the north of Madagascar and the East African coast are expected to be cooler than normal. This condition is expected to suppress the formation low pressure systems in that area hence, suppress the precipitation-making mechanisms (a zonal arm of ITCZ) over coastal areas of our country and nearby areas.

#### EXPECTED WEATHER CONDITIONS DURING

DECEMBER 21-31, 2024

Areas around the Lake Victoria Basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu, and Mara regions), western regions (Kigoma, Katavi, and Tabora regions), northeastern highlands (Arusha, Manyara, and Kilimanjaro regions), and central areas (Dodoma and Singida regions) and southwestern highlands (Rukwa, Songwe, Mbeya, Njombe, and Iringa regions) are expected to feature thundershowers over few areas.

The northern coast (Tanga, northern part of Morogoro region, Pwani, Dar es Salaam regions, including the isles of Unguja and Pemba), southern regions (Ruvuma region and southern part of Morogoro region) and southern coast (Mtwara and Lindi regions) are expected to feature periods of light rain showers over few areas.

#### AGROMETEOROLOGICAL OUTLOOK AND ADVISORY DURING DECEMBER 21-31, 2024

The expected rainy conditions over some areas are likely to support soil moisture replenishments for crop growth and development. However, the expected heavy rain over western regions and Lake Victoria basin may likely affect crops due excessive soil moisture and waterlogging.

Farmers and extension officers are advised to continue making follow-ups on crops, and crop fields for management and control of the excessive water, and the outbreak of pests and diseases.

Livestock keepers are advised to plant more pastures and harvest rainwater for future use.

Fishing communities are advised to continue making follow-ups on daily weather forecasts, especially for the Indian Ocean and the Great Lakes to make decisions on the right time to go out for fishing to avoid the effects of severe weather particularly strong winds and large waves.

#### EXPECTED HYDROMETEOROLOGICAL CONDITIONS

DURING DECEMBER 21-31, 2024

Water levels in dams and river flow discharges are expected to continue increasing due to expected rainy condition in most areas. Water users are advised to harvest rainwater for future use.