



## DEKADAL WEATHER REVIEW

No.24: 2018/19 cropping season

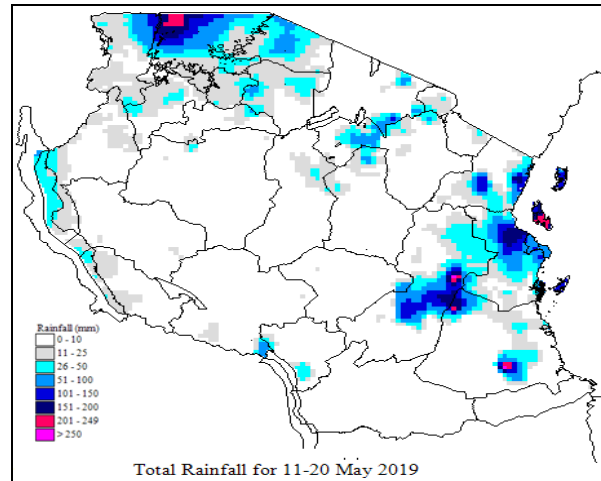
Review for May 11-20, 2019 and Outlook for May 21 - 31, 2019

### HIGHLIGHTS

- Soil moisture condition is expected to continue improving in some parts of south and northern coast, due to ongoing rainfall.
- Farmers, livestock keepers and fishers are advised to consult extension officers for effective use of the forecasted rainfall.

### SYNOPTIC SUMMARY DURING MAY 11 -21, 2019

**D**uring this period, the northern high pressure systems (Azores and Siberian) relaxed while the southern high pressure systems (St. Helena and Mascarene) intensified. This moved the Intertropical Convergence Zone (ITCZ) northwards but within the country especially over the Lake Victoria basin. Warm Sea Surface Temperatures (SSTs) over the southwest Indian Ocean (closer to Tanzania coast) were persisting hence influenced development of moist south easterly wind over the coast. Over the southeast Atlantic Ocean (near Angola coast), the SSTs were slightly cool. This condition enhanced precipitation over the Lake Victoria Basin.



Total rainfall for the period of May 11 - 20, 2019.

### RAINFALL PERFORMANCE DURING MAY 11 - 20, 2019

**D**uring the dekad, the weather systems enhanced significant precipitation over Morogoro region, south and northern coast, while the remaining parts of the country remained relatively dry. The amount of rainfall recorded over Morogoro region and Zanzibar ranged from 200 mm to 250 mm. Other parts of the country specifically northerneastern highlands, central region, western regions, southwestern highlands and, southern region, remained relatively dry with total rainfall less than 26 mm in a dekad as shown in the Figure.

### AGROMETEROLOGICAL SUMMARY DURING MAY 11 - 20, 2019

**D**uring this dekad, maize crop in most areas around the unimodal areas were in good condition and at wax to full ripeness stage. However, poor condition of maize crop was reported in Dodoma, Singida, Tabora due to prolonged dry conditions. On the other hand, some parts of bimodal areas received good rains which were favourable for crops development specifically northern coast which includes the island of Unguja and Pemba. However, dry spells were observed in some parts of bimodal areas, specifically Kilimanjaro, Moshi, Same, and Kiteto which affected crops development and growth. Maize and beans crops in Kagera region are progressing well. Farmers over these areas continued with weeding and fertilizer application. Water and pasture availability for livestock were in good conditions over most parts of the country.

areas.

Northern coast (Tanga, Northern part of Morogoro, Pwani and Dar es Salaam regions together with isles of Unguja and Pemba) are expected to feature rain over few areas.

Western regions (Kigoma, Katavi and Tabora regions) are expected to feature thundershowers over few areas.

Central areas (Dodoma and Singida regions) are expected to feature mainly a dry condition.

**EXPECTED AGROMETEOROLOGICAL  
OUTLOOK AND ADVISORY DURING MAY  
21 - 31, 2019**

The expected rainfall over areas in the northeastern highlands, southwestern highlands, northern coast, western regions, southern coast and southern regions will improve soil moisture conditions for crops development. However, excessive soil moisture conditions are likely to affect crops condition in low-lying areas of the northern coast and southern Morogoro. The forecasted dry condition over central zone (Dodoma and Singida) will lead to soil moisture reduction. The ongoing rainfall activities around the country are not expected to last longer particularly over unimodal areas, except the bimodal regime mainly coastal regions and hinterlands which are likely to remain active in May 2019. Farmers and livestock keepers in their respective areas are advised to consult agriculture extension officers for proper utilization of the forecasted weather during this dekad.

**HYDROLOGICAL OUTLOOK AND  
ADVISORY DURING MAY 21 - 31, 2019**

Water levels in dams and river flow discharges are expected to increase both for unimodal and bimodal areas as the Msimu and Masika rains continues over those regions. Water users are however advised to use available water carefully and wherever possible carry out water harvesting for future use.

**HYDROMETEOROLOGICAL CONDITIONS  
DURING MAY 11-20, 2019**

Water levels in dams and river flow discharges have increased slightly due to ongoing seasonal rains.

**EXPECTED SYNOPTIC CONDITIONS  
DURING MAY 21-31, 2019**

During this period, the northern high pressure systems are expected to relax while the southern high pressure systems are expected to further intensify. This is expected to move the ITCZ northwards but within the country especial over the Lake Victoria basin. Neutral to slight SSTs over the west Indian Ocean (closer to Tanzania coast) are expected to persist hence influence development of moist south easterly wind over the coast. Also warm SSTs over the southwest Indian Ocean is expected to persist, this condition is expected to influence low pressure cells. Winds at 850hPa are expected to be easterlies over the entire coast and westerlies over the Hinterlands, this situation is expected to bring more moisture over the coast and hence influence activities. Over the southeast Atlantic Ocean (near Angola coast), the SSTs are expected to be cool. This condition is expected to enhance precipitation over the west and parts of the Lake Victoria Basin.

**EXPECTED WEATHER CONDITIONS  
DURING MAY 21 - 31, 2019**

In view of the expected synoptic conditions Lake Victoria Basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu and Mara regions) are expected to feature thundershowers over some areas.

Northeastern highlands (Arusha, Manyara and Kilimanjaro regions), southwestern highlands (Rukwa, Songwe, Mbeya, Njombe and Iringa regions), southern Coast (Mtwara and Lindi regions) and southern region (Ruvuma and Southern part of Morogoro regions) are expected to feature showers over few