

## DEKADAL WEATHER REVIEW

### HIGHLIGHTS

- Seasonal rains (*vuli*) started to feature over Lake Victoria basin regions during September 21-30, 2016; *off-season* rains were also experienced in some areas over north-eastern highlands and regions around the coast.
- The observed rainfall over the bimodal areas during the period was useful for the ongoing land preparation activities.
- With the expected rainfall over Lake Victoria basin during October 1-10, 2016, farmers are advised to plant when soil moisture is adequate to support seed germination, but with professional advice from agricultural extension officers in their localities.

No: 1 2016/17 Cropping Season

Review for September 21-30, 2016 and Outlook for October 1-10, 2016

### SYNOPTIC SUMMARY DURING SEPTEMBER 21-30, 2016

High pressure systems in the southern hemisphere (St. Helena and Mascarene high-pressure systems) slightly relaxed while their counterparts to the north (Azores and Siberian) intensified slightly. The observed situation caused the Inter-Tropical Convergence Zone (ITCZ) to start moving south-wards. However, Sea Surface Temperatures (SSTs) conditions were maintained whereby warm SSTs were observed over the South-Eastern Atlantic Ocean (SEAO) closer to Angola coast, neutral to cool SSTs were observed over the South-Western Indian Ocean (SWIO) and cooling of SSTs in the North-West Indian Ocean (NWIO) (closer to Somali coast) continued.

In view of the observed synoptic situation, some places of the bimodal area (regions around Lake Victoria Basin) started receiving *vuli* rains. *Off-seasonal* rains were also experienced over some of coastal regions as well as north-eastern highlands. Figure 1 shows total rainfall distribution during the period from satellite rainfall estimates from GeoWRSI model merged with gauge data from Tanzania rainfall stations network showing whereby the highest rainfall was observed in Mara region. The rest of the country, particularly the unimodal area continued to experience seasonal dry conditions during the period.

### TEMPERATURE CONDITIONS DURING SEPTEMBER 21-30, 2016

Warmer temperatures started to feature in some places, mostly bimodal areas of the country. Other places, especially in the unimodal and highland areas continued to experience cold temperature conditions.

### RAINFALL PERFORMANCE DURING SEPTEMBER 21-30, 2016

### AGROMETEOROLOGICAL SUMMARY DURING SEPTEMBER 21-30, 2016

The observed rains over the bimodal area were useful for the ongoing land preparation. Most farmers over Lake Victoria basin including Kagera, Mwanza, Northern Kigoma, Mara and Simiyu regions were mostly engaged in land preparation activities. Over the unimodal areas, however, farmers were reported to engage in out of season activities.

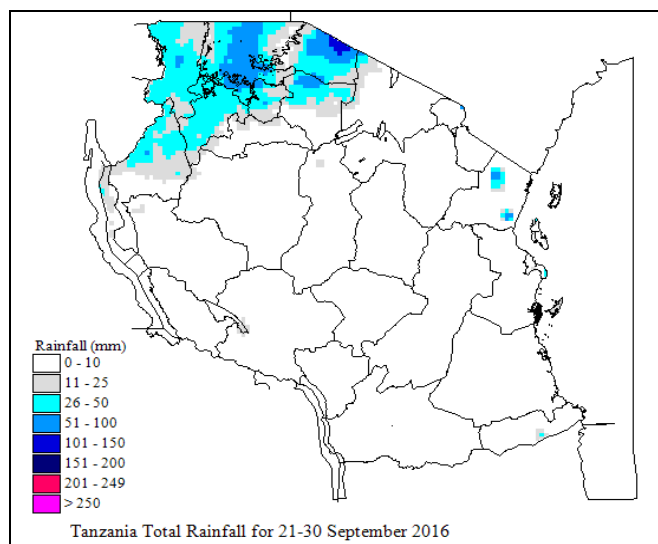


Figure 1: Rainfall performance (total rainfall) during September 21-30, 2016

## HYDROLOGICAL CONDITIONS DURING SEPTEMBER 21-30, 2016

Water levels in dams and river flow discharges were low due to prevailing seasonal dry conditions over much of the country.

## EXPECTED SYNOPTIC CONDITIONS DURING OCTOBER 1-10, 2016

Southern hemisphere high-pressure systems are expected to relax, while their counterparts to the north are expected to continue intensifying thus allowing the ITCZ to continue moving south-wards. Neutral to warm SSTs over the South-East Atlantic Ocean closer to Angola coast are expected to persist. Neutral to cool SSTs over the South-West Indian Ocean and warm SSTs over the Central Indian Ocean are expected. Cool SSTs in the North-West Indian Ocean (closer to Somali coast) are expected.

## EXPECTED WEATHER DURING October 1-10, 2016

Lake Victoria Basin (Kagera, Mwanza, Mara, Geita, Simiyu and Shinyanga regions): rain showers and thunderstorms are expected. North-eastern highlands (Kilimanjaro, Arusha and Manyara regions): mainly dry conditions with few isolated light rain showers especially over high grounds are expected. Northern coast (Dar es Salaam, Pwani, Morogoro and Tanga regions, the isles of Unguja and Pemba): mainly dry conditions with few isolated light rain showers are expected especially areas located in extreme northern coast (Tanga region including Unguja and Pemba Isles) during the period. Western regions (Kigoma, Katavi and Tabora regions): mainly dry conditions with few isolated rain showers associated with thunderstorms are expected. Central areas (Dodoma and Singida regions): mainly dry conditions with few isolated rain showers -are expected. Southwestern highlands (Rukwa, Iringa, Songwe and Mbeya regions): mainly dry conditions with few rain showers over high grounds are expected. Southern Coast (Mtwara and Lindi regions): mainly dry conditions with few isolated, rain showers are expected. Southern region (Njombe and Ruvuma region): mainly dry conditions with few rain showers over high grounds are expected.

## AGROMETEOROLOGICAL OUTLOOK AND ADVISORY DURING OCTOBER 1-10, 2016

With the expected rainfall over Lake Victoria basin during October 1-10, 2016, farmers are advised to plant when soil moisture is adequate to support seed germination but they are advised to adhere to professional advice from agricultural extension officers in their localities. For the rest of the bimodal areas as well as the unimodal areas, farmers may continue with land preparation and acquisition of inputs.

## HYDROROLOGICAL OUTLOOK AND ADVISORY DURING OCTOBER 1-10, 2016

Hydrological conditions are expected to continue declining, especially unimodal areas of the country due to persistent dry conditions coupled with strong winds.

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