



## DEKADAL WEATHER REVIEW

No: 25 2016/17 Cropping Season

Review for June 1-10 and Outlook for June 11-20, 2017

### HIGHLIGHTS

- Most of the country experienced seasonal dry conditions during June 1-10, 2017 except some areas of Pwani, Lindi, Tanga, Mara, northern Morogoro, Unguja, and few areas of Kagera, Geita and Mwanza regions that experienced off seasonal rainfall.
- Crops in most of the country were at ripeness stage with ongoing harvesting activities in Kigoma, Tabora, Rukwa, Katavi, Njombe, Lindi, Ruvuma and Mtwara regions. In Kilimanjaro and Tanga regions maize crop was at waxy ripeness stage.
- Periods of strong winds are likely to occur in coastal regions including isles of Unguja and Pemba.
- The expected seasonal dry conditions will be favorable for crops harvesting, drying and storage but may lead to decline in water for livestock. Livestock keepers are advised to make good use of the available water and pasture.

### SYNOPTIC SUMMARY DURING JUNE 1-10, 2017

During the period under review, high pressure systems in the southern hemisphere (St. Helena and Mascarene) intensified significantly with an East African Ridge covering most parts of the country. On the other hand, the high pressure systems in the northern hemisphere (Azores and Siberia) relaxed slightly. The situation was unfavorable for the rainfall making mechanism, the Inter-Tropical Convergence Zone (ITCZ) to remain over our country. Sea Surface Temperatures (SSTs) over the southwestern Indian Ocean were slightly warm whereas over the western Atlantic Ocean (close to Angola coast) slightly warm to neutral SSTs were observed.

### RAINFALL PERFORMANCE DURING JUNE 1-10, 2017

In view of the observed synoptic features, seasonal dry conditions prevailed over most of the country. Extreme dry conditions with less than 25% of long term average rainfall were experienced in most areas of Kigoma, Tabora, Geita, Shinyanga, Simiyu, and Kilimanjaro regions as illustrated in Figure 1. However, off-seasonal rainfall above 125% of long term average was experienced in some areas of Pwani, Tanga, Mara, northern Morogoro, Unguja, and few areas of Kagera, Geita and Mwanza regions.

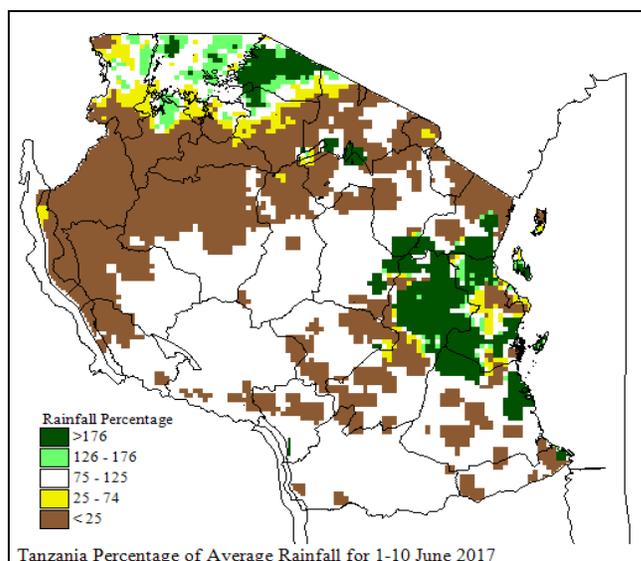


Figure 1: Rainfall performance during June 1-10, 2017 as percentage of long term average.

### AGROMETEOROLOGICAL SUMMARY DURING JUNE 1-10, 2017

Crops in most of the bimodal areas were at ripeness stage, with ongoing harvesting activities in unimodal areas. In the bimodal areas, maize crop was at waxy ripeness stage in Geita, Mwanza, Mara, Manyara, Morogoro and Pwani regions. In the unimodal areas, maize crop was mostly at full ripeness stage with ongoing harvesting and storage activities reported in Kigoma, Tabora, Rukwa, Katavi, Njombe, Iringa, Mbeya, Ruvuma and Mtwara regions. Water and pastures availability for livestock was in moderate conditions over most areas of the country except in Ngorongoro, Longido, Monduli and Simanjiro districts where few rains have been experienced during the main rainfall season (*Masika*).

### HYDROLOGICAL CONDITIONS DURING JUNE 1-10, 2017

Water levels in dams and river flow discharges slightly decreased over most areas of the country due to cessation of *masika* seasonal rains.

### EXPECTED SYNOPTIC CONDITIONS DURING JUNE 11-20, 2017

The southern hemisphere high pressure systems are expected to intensify significantly and extend the East African Ridge over the country. The northern hemisphere high pressure systems are expected to relax, thus allowing the ITCZ to continue moving northwards. SSTs are expected to be warm over tropical western Indian Ocean and warm to neutral over the Atlantic Ocean (closer to Angola coast). Due to intensification of the southern hemisphere pressure systems, periods of strong winds and cool temperatures are likely to occur over coastal regions including isles of Unguja and Pemba.

### EXPECTED WEATHER CONDITIONS DURING JUNE 11-20, 2017

**Lake Victoria Basin (Kagera, Mwanza, Mara, Geita, Simiyu and Shinyanga regions):** Dry conditions with occasional rain showers, thunderstorms and cool temperatures are expected over some areas. **Northeastern highlands (Kilimanjaro, Arusha and Manyara regions), southwestern highlands (Rukwa, Iringa, Songwe and Mbeya regions) and Southern region (Njombe and Ruvuma regions):** Dry conditions with occasional rain showers especially over high grounds and cool temperatures are expected over some areas.

**Northern coast (Dar es Salaam, Morogoro and Tanga regions, the isles of Unguja and Pemba):** Dry conditions with isolated rain showers and cool temperatures are expected over some areas. **Western regions (Kigoma, Katavi and Tabora regions) and Southern Coast (Mtwara and Lindi regions):** Dry conditions with occasional rain showers and cool temperatures are expected over some areas. **Central areas (Dodoma and Singida regions):** Dry conditions with isolated light rain showers and cool temperatures are expected over some areas. Note that cooler temperatures are expected over the high grounds of the country especially northeastern and southwestern highlands compared to other areas.

### AGROMETEOROLOGICAL OUTLOOK AND ADVISORY DURING JUNE 11-20, 2017

The expected seasonal dry conditions will be favorable for crop harvesting, drying and storage. However, the dry conditions will lead to decline in water for livestock. Livestock keepers are advised to make good use of the available water and pasture resources in consultation with extension officers.

### HYDROLOGICAL OUTLOOK AND ADVISORY DURING JUNE 11-20, 2017

Water levels in dams and river flow discharge are expected to continue decreasing over most parts of the country due to the expected dry conditions coupled with strong winds. Water users are advised to make good use of the available water.

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