



NO. 3: 2019/20 Cropping Season

Review for October 21-31, 2019 and Outlook for November 1 - 10, 2019

HIGHLIGHTS

- The expected rainfall conditions will be favorable for improving soil moisture condition for crops and pastures over most areas of the country.
- Farmers and Fisheries should seek professional advice from Agricultural extension officers in their localities and take precautionary measures.
- Pastoralists are advised to use the available water and pasture resources sparingly in consultation with extension officers.

SYNOPTIC SUMMARY DURING OCTOBER 21-31, 2019

During this period, generally the northern hemisphere high pressure systems (Azores and Siberian) intensified while the southern hemisphere high pressure systems (St. Helena and Mascarene) relaxed this to the Intertropical Convergence Zone (ITCZ) to move slightly southward. The onshore easterly to southeasterly flow dominated over the coastal areas. Neutral to slight warm Sea surface temperatures (SSTs) were observed over the south west Indian Ocean, and resulted into the enhancement of moist maritime convective systems associated with easterly wave over southwestern of Indian Ocean. The southeast Atlantic Ocean (near Angola coast) SSTs is observed to be neutral to slight warm, this situation has less influence to change the already existing enhanced convective systems in the rainfall making mechanism over the western sector of the country.

RAINFALL PERFORMANCE DURING OCTOBER 21 - 31, 2019

During the dekad the weather system above, favored moderate rain showers over the lake Victoria basin, western parts and northern coast. Some areas over the northern coast, northeastern highlands, south western highlands and southern coast experienced light rain showers. The significant amount of rainfall recorded ranged from 26 mm and above 250 mm as described by the figure below

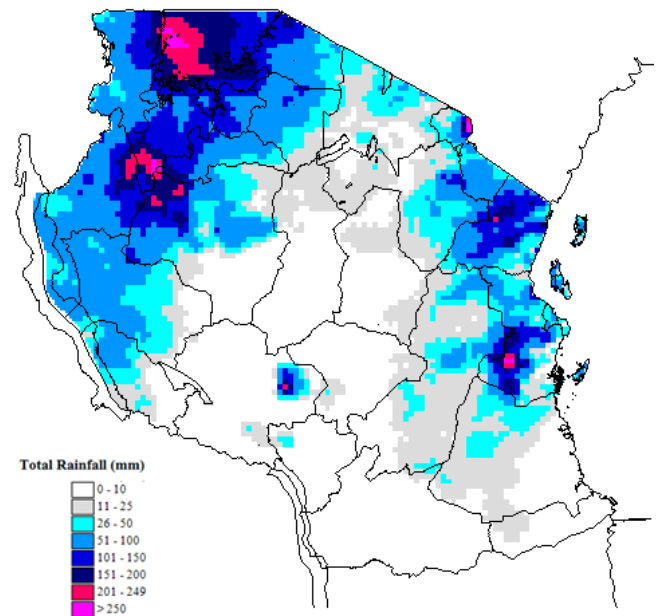


Figure 1. Total rainfall for the period of October 21-31, 2019

AGROMETEOROLOGICAL SUMMARY DURING OCTOBER 21 - 31, 2019

Farmers in most parts around lake Victoria basin were engaged in planting and re-planting especially in places where seeds failed to germinate. In other places of the bimodal area such as Arusha, Tanga and Kilimanjaro regions, farmers were planting early maturing and drought tolerant crop varieties such as cassava. Over

the rest of the bimodal areas including Pwani and Morogoro regions, farmers were engaged more in land preparation. In unimodal areas, farmers mostly continued with land preparation and planning for the coming *msimu* rainy season which is expected to start between November and December 2019. Farmers in Mtwara and Lindi region continued with cashew harvesting. Soil moisture condition was improved over northern coast, islands of Zanzibar, lake Victoria basin and western areas. However, Water and pasture availability for livestock remain low over most parts of Simiyu, Shinyanga, Singida, Manyara and Dodoma region.

HYDROMETEOROLOGICAL REVIEW DURING OCTOBER 21-31 2019

Water levels in dams and river flow discharges were slightly improved over much of the the bimodal rainfall regime .

EXPECTED SYNOPTIC CONDITIONS DURING NOVEMBER 1-10, 2019

During this period, generally the Azores and Siberian high pressure systems are expected to intensify further while the St. Helena and Mascarene high pressure systems are expected to relax and continue to drive the ITCZ towards southern hemisphere. However, slight intensification of southern high pressure systems is expected and occurrence of tropical cyclone (Kyarr) and other depression associated with warmer SSTs over the northwestern Indian Ocean, are likely to slow down the movement of the ITCZ southward and block the setting of the North East monsoon, hence suppression of activities is expected over the country. The SSTs is expected to be neutral to slight warm over the south west Indian Ocean. The southeast Atlantic Ocean (near Angola coast) SSTs is expected to be neutral to slight warm, this situation will have less influence on changing in rainfall making mechanism over the western sector of the country.

EXPECTED WEATHER CONDITIONS DURING NOVEMBER 1 - 10, 2019

In view of the expected weather, areas around lake Victoria basin (Kagera, Geita, Shinyanga, Mwanza, Simiyu and Mara

regions) and western areas (Kigoma, Katavi and Tabora regions) are expected to feature moderate rain showers.

Northeastern highlands (Arusha, Manyara and Kilimanjaro regions) , northern coast (Tanga, northern part of Morogoro, Pwani and Dar es Salaam regions together with isles of Unguja and Pemba) are expected to featrure light rain showers over few areas.

Central areas (Dodoma and Singida regions), southwestern highlands (Rukwa, Songwe, Mbeya, Njombe and Iringa regions), southern Coast (Mtwara and Lindi regions), southern region (Ruvuma and Southern part of Morogoro regions) are expected to feature mainly a dry condition.

EXPECTED AGROMETEOROLOGICAL CONDITIONS DURING NOVEMBER 1-10, 2019

The expected rainfall conditions will be favorable for improving soil moisture condition for crops and pastures over most areas of the country. Farmers are advised to continue with routinely farm activities while over the unimodal areas where Msimu rains are about to start should continue with land preparation. However, farmers should always seek professional advice from Agricultural extension officers in their localities and take precautionary measures. Pastoralists are also advised to use the available water and pasture resources sparingly in consultation with extension officers.

EXPECTED HYDROMETEOROLOGICAL CONDITIONS DURING NOVEMBER 1-10 2019

Water levels in dams and river flow discharges are expected to continue slightly declining especially in unimodal areas due to ongoing dry conditions. The improvement is expected in bimodal areas due to *vuli* rainfall season kickoff. Water users are advised to use available water carefully.

Prepared by

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