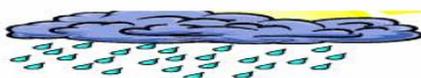




TANZANIA METEOROLOGICAL AGENCY



DEKADAL WEATHER REVIEW

No: 28 Cropping Seasons 2010/11

June 1-10, 2011

HIGHLIGHTS

- Diminished soil moisture supply during the dekad was a threat over much of the bimodal sector where most field crops mainly maize, paddy, beans were still at late vegetative to grain and pod filling stages respectively.
- Temperatures over most areas in the country were generally moderate with cool conditions reported over high ground areas in the northeastern and southwestern highlands.

SYNOPTIC SITUATION

During the first dekad of June 2011, the northern hemisphere high pressure cells, the Azores and Siberian High and its associated Arabian ridge were relaxed while the Southern Hemisphere High pressure cells, St Helena and Mascarene anticyclones continued to intensify resulting to northward shift of rain making mechanism (ITCZ) over the Great Horn of Africa. Southerly to southeasterly low level wind continued to dominate the eastern parts of the country. The meridional arm of ITCZ retreated westwards and became less active over the western parts of the country. An easterly wave from the Indian Ocean resulted to temporary enhanced rainfall over the coastal belt towards the end of the dekad.

RAINFALL SUMMARY

During the dekad very few stations reported rainfall, and the highest total amount recorded was below 50mm. This was recorded at Lyamungo Research station with 45.8 mm, followed by Mtwara 30.2mm, DIA 25.2mm, Zanzibar 23.7mm, Mlingano 22.7mm, Tanga 22.0mm, Mahenge 18.5mm and Marikitanda 12.8mm. Rainfall was reported mainly over the eastern parts of the country. The rest of the stations recorded rainfall amounts below 10 mm

with the remaining stations recording nil rainfall as shown in Figure 1 below.

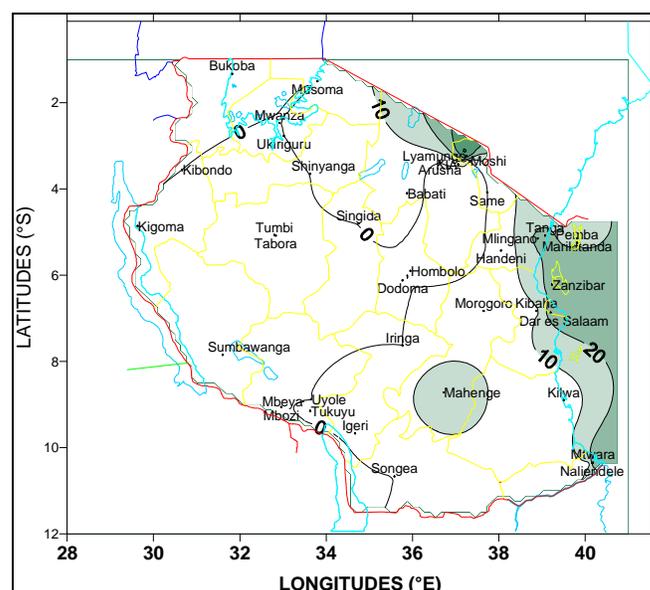


Fig. 1: June 1-10, 2011 Rainfall distribution (mm)

Agrometeorological and Crop Summary

Diminished soil moisture supply during the dekad was a threat over much of the bimodal sector where most field crops mainly maize, paddy and beans were still at late vegetative to grain and pod filling stages as reported from northern coast (Tanga and Coast regions), northeastern highlands (Arusha, Kilimanjaro, Manyara regions) and Lake Victoria basin mainly Mwanza, Shinyanga and Mara regions. As for the unimodal sector the diminished soil moisture supply observed was a normal character during the period. The situation on the other hand favoured harvesting activities of crops including

maize and paddy. Pockets of low harvest have been reported over several areas of southwestern highlands, western, southern coast and the central areas following soil moisture stress experienced during the season.

Pastures and water availability for livestock and wildlife were generally good over much of the country.

Hydro-meteorological Summary

Water levels in lakes, dams and river flows have fairly regained due to rainfall amounts received, but water for human, industrial use and hydro-power generation should still be used sparingly.

Environmental Summary

Temperatures over most areas in the country were generally moderate with cool conditions reported over high ground areas in the northeastern and southwestern highlands.

EXPECTED SYNOPTIC SYSTEMS DURING JUNE 11-20, 2011

The Southern Hemisphere Systems, the St Helena and Mascarene highs are expected to intensify pushing the ITCZ further north of Africa. The Northern Hemisphere, systems; Azores High, Siberian High and the associated Arabian ridge are expected to relax. The zonal arm of ITCZ is expected to move further north over the Great Horn of Africa. Neutral SSTs conditions are expected over southwestern Indian Ocean with cooling persistency over central Indian Ocean. The Meridional component of ITCZ is expected to shift slightly eastwards and likely to enhance moisture over Western Tanzania.

EXPECTED WEATHER SITUATION DURING JUNE 11-20, 2011

Lake Victoria Basin (Kagera, Mara, Shinyanga and Mwanza regions): Moderate rainfall and isolated thunderstorms are expected over Kagera and Mwanza regions. Mara and Shinyanga regions are expected to experience mainly dry conditions with occasional thunderstorms. Western region (Tabora and Kigoma regions): Isolated light showers and thunderstorm activities are expected mainly over Kigoma and occasionally including Tabora region during the first half of the dekad. Otherwise mainly dry conditions are expected. Northern coast and its hinterland (Dar es Salaam, Morogoro, Tanga and Coastal regions, Isles of Zanzibar and Pemba Islands): Mainly dry conditions with light rains over the Isles of Unguja and Pemba and occasionally spreading to few areas of Dar es Salaam and Coastal regions. Morogoro region is expected to experience mainly partly cloudy conditions and low temperatures during early morning hours. Southern Coast (Mtwara and Lindi regions): Mainly dry conditions and long sunny periods. North astern Highlands (Arusha, Kilimanjaro and Manyara regions): Mainly dry conditions are expected during the dekad. A small chance of light rains is likely mainly over high grounds. Southwestern highlands (Rukwa, Mbeya and Iringa regions and southern Morogoro (Mahenge areas): Light rain showers are expected over high grounds and western parts of Rukwa. Southern region (Ruvuma region): Localized showers are expected during the dekad. Central region (Dodoma and Singida regions): Mainly dry conditions and low temperatures during night and early morning hours.

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