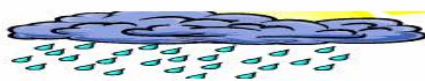




# TANZANIA METEOROLOGICAL AGENCY



## DEKADAL WEATHER REVIEW

No: 29 Cropping Seasons 2010/11

June 11- 20, 2011

### HIGHLIGHTS

- Decreased supply of soil moisture during the dekad extended threat to the crops mostly at premature stages as reported over much of the bimodal sector where poor soil moisture distribution for the season was experienced.
- Temperatures over most areas in the country were generally moderate with cool to cold 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 Arabian ridge were relaxed while the southern hemisphere high pressure cells, St Helena and Mascarene anticyclones continued to intensify with a slight relaxation of the Mascarene high pressure system. However, the rain making mechanism (ITCZ) maintained its position over the Great Horn of Africa. Southerly to southeasterly low level wind flow continued to dominate the eastern parts of the country. The meridional arm of the ITCZ retreated westwards and became less active over the country. An Easterly wave from the Indian Ocean enhanced rainfall over the coastal belt towards the end of the dekad.

### RAINFALL SUMMARY

During the second dekad of June 2011 very few stations reported rainfall with highest total amounts not exceeding 30 mm. The highest amount was reported at Shinyanga 28.6 mm followed by Tukuyu 20.9 mm, Mwanza 12.2 mm, Ukiriguru 6.0 mm, Tanga 4.1 mm, Zanzibar 2.6 mm, K.I.A 1.5 mm, and Dar es Salaam (JNIA) 1.1 mm. The rest of the country remained seasonally dry as shown in Fig. 1.

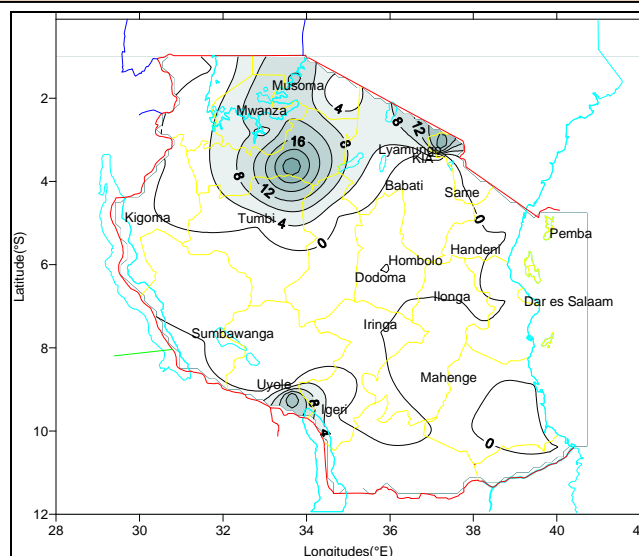


Figure 1: June11-20, 2011 Rainfall distribution (mm)

### Agrometeorological and Crop Summary

Decreased supply of soil moisture during the dekad extended threat to the crops mostly at premature stages as reported over much of the bimodal sector where poor soil moisture distribution for the season was experienced. Field crops mainly maize, paddy and beans were affected at grain and pod filling stages over much of northeastern highlands (Kilimanjaro, Arusha, and Manyara regions), coast (Tanga and Coast regions), and Lake Victoria basin mainly Mwanza, Shinyanga and Mara regions. As for the unimodal sector the far diminished soil moisture supply observed during the period was conducive for crop harvesting and storage. Generally, low harvest have been noticed over several areas of southwestern highlands, western, southern coast

and the central areas following poor soil moisture distribution 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 not regained much, thus water for domestic, industrial use and hydro-power generation should be used sparingly.

### Environmental Summary

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

### EXPECTED SYNOPTIC SYSTEMS DURING JUNE 21-30, 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, the Azores and Siberian highs are expected to continue relaxing. The zonal arm of ITCZ is expected to move further north from its current position. Warm Sea Surface Temperature (SSTs) conditions are expected over southwestern Indian Ocean resulting into southerly to easterly flow over the coastal areas. Near neutral SSTs conditions are expected over central Indian Ocean. The Meridional component of ITCZ is expected to diminish resulting into less moisture over greater part of western areas.

### EXPECTED WEATHER SITUATION DURING JUNE 21-30, 2011

**Lake Victoria Basin (Kagera, Mara, Shinyanga, and Mwanza regions):** Slight rainfall and isolated thunderstorms are expected over Kagera and Mara regions. Mwanza and Shinyanga regions are expected to experience mainly dry conditions with occasional thunderstorms. **Western region (Tabora and Kigoma regions):** Mainly dry conditions are expected. **Northern coast and its hinterland (Dar es Salaam, Morogoro, Tanga, and Coast regions, Isles of Unguja and Pemba):** Rain showers are expected during the first days of the dekad reducing towards the end over the Isles of Unguja and Pemba and occasionally spreading to a few areas of Dar es Salaam and Coast regions. Morogoro region is expected to experience mainly partly cloudy conditions and low temperatures during early morning hours. **Southern coast (Mtwara and Lindi regions):** Occasional light rains during the first days of the dekad and long sunny periods towards the end of the dekad. **Northeastern 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) and Central Region (Dodoma and Singida regions):** Mainly dry conditions and low temperatures during night and early morning hours. **Southern region (Ruvuma region):** Mainly dry conditions and long sunny period.