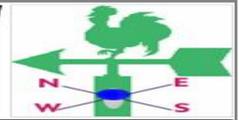
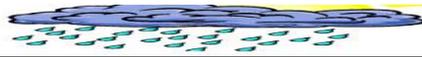




# TANZANIA METEOROLOGICAL AGENCY



## DEKADAL WEATHER REVIEW

No: 9 2011/12 Cropping Season

November 21-30, 2011

### HIGHLIGHTS

- Most areas of the country particularly over bimodal sector experienced adequate soil moisture supply during the dekad, though a few areas mainly low grounds of the northeastern highlands encountered soil moisture deficits causing disrupting crop growth.
- Planting was the major farming activity over unimodal sector.

### SYNOPTIC SITUATION

During the time dekad of November 2011, the northern hemisphere high pressure cells, the Azores and Siberian highs and Arabian ridge remained intense. The southern hemisphere high pressure cells, Mascarene high continued to relax while occasional intensification of St. Helena was observed, thus continued to support the southwards movement of the Inter-Tropical Convergence Zone (ITCZ) over the northern parts of the country. Convergence of winds from west and southeasterly winds from the east were observed over the Lake Victoria basin and the northern coast. This configuration resulted into enhanced activities over the basin and the northern coast.

### RAINFALL SUMMARY

During the dekad under review, significant amounts of rainfall were observed over eastern Lake Victoria basin and northern coast. The northeastern highlands experienced less rainfall activities characterized by dry spells. Most of the unimodal sector received rainfall below 30 mm. The highest amount of rainfall was recorded in Dar es Salaam 206.2 mm, followed by Kizimbani 157.0 mm, Zanzibar Airport 146.8 mm, Shinyanga 129.8 mm, Pemba 105.0 mm Kibondo 104.8 mm, Handeni 103.6 mm Mwanza 100.9 mm, Amani Malaria 97.6 mm, Kibaha 91.1 mm, Same 60.4 mm, Ilonga 52.8 mm, Kigoma 47.4 mm, Ukiriguru 70.6 mm, Matangatuani 64.8 mm, Amani 60.2 mm, Lyamungo 47.4 mm, Musoma 47.2 mm, Mahenge 46.4 mm, Tanga 37.8 mm, Morogoro Prison 34.6 mm,

Mlingano and Tabora 28.8 mm each. Remaining stations from our sample reported rainfall not exceeding 20 mm as shown in Figure 1 below.

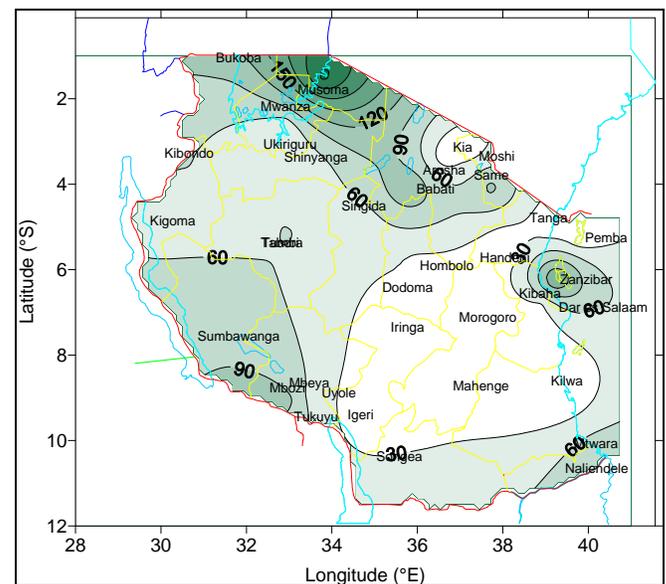


Fig 1: November 21-30, 2011 Rainfall distribution (mm)

### IMPACT ASSESSMENT

#### Agrometeorological and Crop Summary

Most areas of the country particularly over bimodal sector (Lake Victoria basin, northeastern highlands and northern coast) experienced adequate soil moisture supply during the dekad, enhancing crop performance with maize crop reported to approach tasselling stage and in good stage as over several areas of this sector. However, few areas mainly over low grounds experienced severe soil moisture deficit causing hampering state to some crops as widely observed around Moshi, Same and Handeni. Beans

were progressing generally well for the period and its growing stage ranged from early vegetative to flowering stage mainly over (Kagera, Mara, Kilimanjaro, Arusha and Tanga regions) with state of crop being generally good. On the other hand planting was the major farming activity over unimodal sector.

### Hydro-meteorological Summary

Water levels in lakes, dams and river flow discharges were slightly boosted.

### Environmental Summary

Temperatures mostly over high ground areas in the country were fairly cool except along the coastal belt and a few inland areas where they were generally warm. Low relative humidity dominated over most areas but is getting higher along the coastal belt.

### EXPECTED SYNOPTIC SYSTEMS DURING DECEMBER 1-10, 2011

The Azores and Siberian highs together with the Arabian ridge are expected to intensify with likelihood of relaxation towards the end of the dekad. St. Helena is expected to remain strong sustaining westerly wind flow from Congo forest. On the other hand Mascarene high is expected to weaken, thus continue supporting the southwards migration of the ITCZ towards the southern part of the country. Slight warm Sea Surface Temperatures (SSTs) are expected to prevail over the southwestern Indian Ocean.

### EXPECTED WEATHER DURING DECEMBER 1-10, 2011

Lake Victoria Basin (Kagera, Mara, Shinyanga, and Mwanza regions): Thundery showers are expected to prevail over the region. Mara region is expected to feature slightly enhanced rainfall. Western region (Tabora and Kigoma regions): is expected to experience thundery showers. Northern coast and its hinterland (Dar es Salaam, Morogoro, Tanga and Coast regions, Isles of Unguja and Pemba): These areas are expected to experience isolated rain showers. Southern Coast (Mtwara and Lindi regions): Mainly dry conditions with sunny periods expected over the region. Northeastern highlands (Arusha, Kilimanjaro and Manyara regions): These areas are expected to feature some rainfall and thunderstorms. Southwestern highlands (Rukwa, Mbeya and Iringa regions): Partly cloudy conditions, rain showers with isolated cases of thunderstorms are expected. Southern region (Ruvuma region): Partly cloudy conditions and sunny periods are expected. Central region (Dodoma and Singida regions): These areas are expected to feature some rain showers. Northern parts of these regions are likely to experience more rains.

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