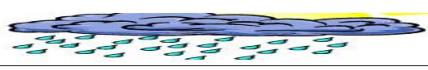




# TANZANIA METEOROLOGICAL AGENCY



## DEKDAL WEATHER REVIEW

No: 7 2011/12 Cropping Season

November 1-10, 2011

### HIGHLIGHTS

- Improved soil moisture supply was experienced towards the end of the dekad reviving field crops mostly at early growth stages in most parts in the bimodal sector.
- Over unimodal sector land preparations continued and some planting have started.

### SYNOPTIC SITUATION

During the first dekad of November 2011, the northern hemisphere high pressure cells, the Azores remained intense while Siberian high and its associated Arabian ridge relatively relaxed. The southern hemisphere high pressure cells, St Helena and Mascarene anticyclones were intense with occasional relaxation. Southeasterly low level winds were observed during the dekad. A convergence of westerlies and southeasterlies was observed over the Lake Victoria Basin, resulting in enhanced activities over the basin.

### RAINFALL SUMMARY

During the dekad under review rainfall progressed well over Lake Victoria Basin, northeastern coast and western parts of the country with highest levels for the period recorded at Kizimbani 158.5 mm, followed by Zanzibar Airport 86.0 mm, Kigoma 76.0 mm, Sumbawanga 72 mm, Musoma 67.2 mm, Matangatuani 69.0 mm, Mlingano 64.3 mm, Singida 61.4 mm, Dar es Salaam 61.2 mm, Mwanza 61.0 mm, Mbimba 56.7 mm, Igeri 48.5 mm, Pemba 39.3 mm, Shinyanga 36.9 mm, Tabora 32.3 mm, Mugumu 26.8 mm and Kibaha 24.2 mm. Remaining stations from our sample stations reported less than 20.0 mm as shown in Figure 1 below.

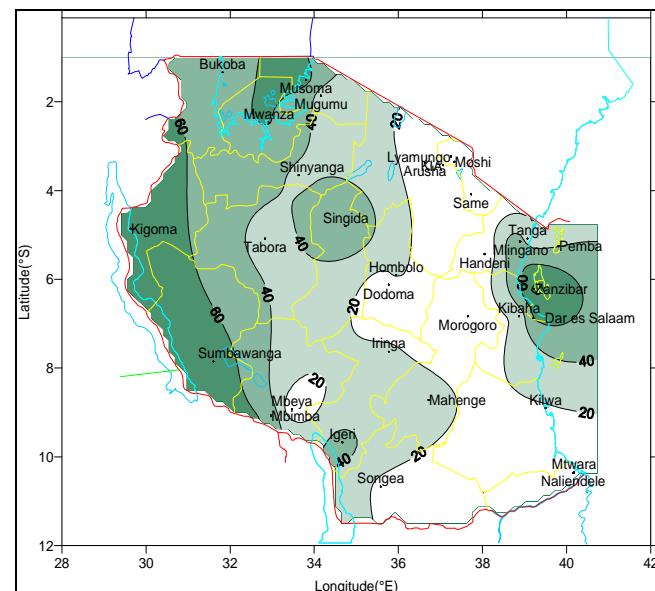


Figure 1: November 1-10, 2011 Rainfall distribution (mm)

### IMPACT ASSESSMENT

#### Agrometeorological and Crop Summary

Improved soil moisture supply was experienced mainly towards the end of the dekad reviving field crops mostly at early growth stages as reported over a greater part of the bimodal sector, while in the unimodal sector farmers continued with land preparations and a few have started. Maize crop during the dekad was reported generally at early vegetative stage, while beans ranged from early vegetative to flowering stage mainly over Lake Victoria basin, northeastern highlands and northern coast (Kagera, Mara, Kilimanjaro and Arusha regions). The state of crops was roughly moderate except for a few areas like Ngara in Kagera region

where beans crop at flowering stage was affected by excessive soil moisture.

### Hydrometeorological Summary

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

### Environmental Summary

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

### EXPECTED SYNOPTIC SYSTEMS DURING NOVEMBER 11-20, 2011

Azores and Siberian highs together with the associated Arabian ridge are expected to intensify. St. Helena and Mascarene highs are expected to weaken, allowing the retreat of the Inter-Tropical Convergence Zone (ITCZ) towards the south over the country. Warm Sea Surface temperatures (SSTs) are expected over southwestern Indian Ocean. The near neutral SSTs condition over Indonesia is likely to persist resulting into easterly wind flow towards the East African region. Near-Equatorial Trough is expected to prevail during much of the dekad.

### EXPECTED WEATHER DURING NOVEMBER 11-20, 2011

**Lake Victoria Basin** (Kagera, Mara, Shinyanga, and Mwanza regions) and **Western regions** (Tabora and Kigoma regions): Thundery showers are expected.

**Northern coast and its hinterland** (Dar es Salaam, Morogoro, Tanga and Coast regions, Isles of Unguja and Pemba): The areas are expected to experience rain showers with some cases of thundershowers. **Southern coast** (Mtwara and Lindi regions): Partly cloudy conditions and showers are expected.

**Northeastern highlands** (Arusha, Kilimanjaro and Manyara regions): These areas are expected to feature some showers and occasional 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 rain showers are expected over some areas. **Central region** (Dodoma and Singida regions): Occasional rain shower are expected.

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