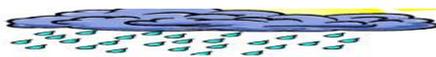




# TANZANIA METEOROLOGICAL AGENCY



## DEKADAL WEATHER REVIEW

No: 34 Cropping Seasons 2010/11

August 1-10, 2011

### HIGHLIGHTS

- Dry conditions, normal for this time of the year prevailed with marked decline of pasture and water availability for livestock and wildlife.
- On the other hand the dry conditions were favorable for marketing activities of the harvested crops over both sectors, unimodal and bimodal, with the latter engaged in final harvesting activities.

### SYNOPTIC SITUATION

During the first dekad of August 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 anticyclones remained intense extending a ridge along the southern tip of the continent while the Mascarine high pressure system relaxed. The rain making mechanism (ITCZ) remained north of the Great Horn of Africa. Southerly to occasional southeasterly low level winds prevailed over eastern parts of the country during the period. The configuration resulted into advection of very cold air over the country while towards the end of the dekad an easterly wave enhanced moisture advection along the coast and parts of northeastern highlands.

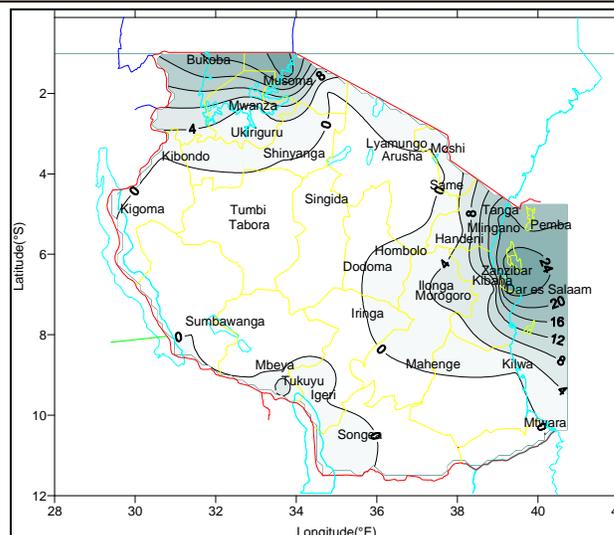


Figure 1: August 1-10, 2011 Rainfall distribution (mm)

### RAINFALL SUMMARY

During the first dekad of August 2011 few stations reported any rain while most of the country was seasonally dry as depicted in Figure 1 below. Only parts of Lake Victoria basin and the coastal belt reported small amounts of rainfall for the period. Musoma recorded 26.6 mm, Zanzibar 26.3 mm, Tanga 21.1 mm, Bukoba 19.3 mm, Mlingano 18.3 mm, Pemba 18.1 mm, Ukiriguru 3.1 mm, Handeni 2.3 mm and Lyamungo 1.8 mm. The remaining stations reported rainfall below 1.0 mm.

### IMPACT ASSESSMENT

#### Agrometeorological and Crop Summary

Dry conditions prevailed during the period as is normal for this time of year over much of the country, causing a decline of pastures and water availability for livestock and wildlife as currently pronounced over the central (Dodoma and Singida regions), northeastern highlands (Arusha, Manyara, and Kilimanjaro regions) and parts of northern coast. Some areas over high grounds continued with field work such as harvesting of crops (maize and coffee) reported from Lyamungo Agromet station. On the other hand, the dry conditions were favorable for marketing activities of the harvested crops over both sectors, unimodal and bimodal, with the latter engaged in final harvesting activities.

**Hydrometeorological Summary**

Water levels in lakes, dams and river flows have declined. Water for domestic use, industrial use and hydro-power generation should be used sparingly.

**Environmental Summary**

Temperatures over most areas in the country depicted cool to cold conditions. Dry and windy conditions coupled with low relative humidity facilitated the drying of farm produce.

**EXPECTED SYNOPTIC SYSTEMS  
AUGUST 11-20, 2011**

In the southern hemisphere, St Helena high pressure is expected to intensify while the Mascarene high is expected to relax whereas in the northern hemisphere, Azores and Siberian high pressure systems are expected to continue relaxing. Slightly warm sea surface temperatures (SSTs) are expected to persist over southwestern Indian ocean while near neutral conditions are likely over central Indian Ocean.

**EXPECTED WEATHER DURING  
AUGUST 11-20, 2011**

Lake Victoria basin (Kagera, Mara, Shinyanga and Mwanza regions): Occasional showers 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 areas (Tabora and Kigoma regions): Mainly dry conditions are expected. Northern coast and its hinterland (Dar es Salaam, Morogoro, Tanga and Coastal regions, Isles of Unguja and Pemba): Mainly partly cloudy and sunny periods are expected. A few outbreaks of showers are expected along the coastal belt areas.

Southern coast (Mtwara and Lindi regions): Mostly partly cloudy during morning hours and long sunny periods. North-eastern Highlands (Arusha, Kilimanjaro and Manyara regions): Mainly cloudy to partly cloudy conditions with light rains over high grounds. Southwestern highlands (Rukwa, Mbeya and Iringa regions and southern Morogoro (Mahenge areas): Mainly dry conditions and low temperatures during night and early morning hours. Occasional light rains over high grounds are expected. Southern region (Ruvuma region): Mainly dry conditions and long sunny periods. Occasional cloudy and foggy conditions are expected along Lake Nyasa. Central areas (Dodoma and Singida regions): Dry with low temperatures at night and early morning hours.