



The Geospatial Water Requirement Satisfaction Index (GeoWRSI) model with inputs from Satellite Rainfall Estimates (RFE) merged with gauge data from Tanzania rainfall stations network also indicates similar pattern of the rainfall performance during the dekad whereby most parts of the country particularly the bimodal sector experienced rainfall less than 30% of the long term average as shown in Figure 1b.

### IMPACT ASSESSMENT

#### Agrometeorological and Crop Summary

Soil moisture obtained over both sectors of the country during the dekad depicted decreasing levels that hampered crop growth which were generally ranging from early to advanced stages over both unimodal and bimodal areas respectively. Several pocket areas mainly over bimodal sector (northeastern highlands, Lake Victoria basin and the northern coast) experienced falling trend of soil moisture that adversely hampered late grown crops at all growth stages with many approaching wax ripeness stage. Early planted crops including maize and beans over parts of Lake Victoria basin particularly Kagera, Mwanza and Mara regions were observed at near ripeness stage, while their state was ranging from good to moderate. Crops that were critically affected by soil moisture deficit include beans over parts of Kilimanjaro region particularly over Lyamungu, Moshi and Same areas of the northeastern highlands which were generally in poor to moderate state. However, over the unimodal rainfall pattern areas particularly central, southwestern highlands, southern region and southern coast the moderate to substantial soil moisture obtained was beneficial for crop establishment being progressing well during the dekad.

Pastures and water availability for livestock and wildlife were generally good countrywide.

#### Hydrological Summary

Water levels in dams and river-flow over both bimodal and unimodal sectors have slightly maintained their levels due to moderate rains experienced over several parts of the country during the first dekad.

#### Environmental Summary

Temperatures remained generally high over much of the country as well as warm to humid air observed mainly over the coastal

areas that occasionally caused discomfort.

### EXPECTED SYNOPTIC SYSTEMS DURING JANUARY 21-31, 2013

During this period, the southern hemisphere pressure systems particularly the Mascarene are expected to maintain their relatively low intensity while their counterpart to the north are expected to continue intensifying. The ITCZ is expected to be active over unimodal areas of the country especially over western, southwestern highlands, southern, southern coast, and central regions of the country.

### EXPECTED WEATHER DURING JANUARY 21- 31, 2013

Lake Victoria basin (Kagera, Mwanza, Mara, Geita, Simiyu and Shinyanga regions), northeastern highlands (Kilimanjaro, Arusha and Manyara regions), northern coast (Dar es Salaam, Morogoro and Tanga regions, the Isles of Zanzibar and Pemba), Western regions (Kigoma and Tabora regions), central areas (Dodoma and Singida regions) are expected to feature normal rains. The southwestern highlands (Rukwa, Iringa and Mbeya regions), southern coast (Mtwara and Lindi regions), and southern region (Ruvuma region) are expected to experience normal to above normal rains.

### AGROMETEOROLOGICAL OUTLOOK DURING JANUARY 21-31, 2013

During the third dekad of January 2013, late grown crops over much of bimodal areas, and those in some parts of unimodal areas (central and western regions) are expected to experience inadequate soil moisture supply. However, the above normal levels expected over parts of unimodal areas are likely to benefit crops over much of unimodal areas except over southern coast where excessive soil moisture might hamper the crops mainly over low lying areas.

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