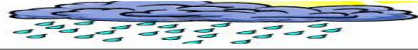




TANZANIA METEOROLOGICAL AGENCY



DEKADAL WEATHER REVIEW

No: 36. 2014/15 Cropping Season

Review for September 1-10, 2014 and Outlook for September 11-20, 2014

HIGHLIGHT

- Early rains for *Vuli* season were reported over few areas over bimodal rainfall pattern during September 1-10, 2014
- Over many parts of the county, early rains in September are useful for land preparation

SYNOPTIC SUMMARY DURING SEPTEMBER 1-10, 2014

During September 1-10, 2014, high pressure systems over the northern hemisphere continued to intensify. In the southern hemisphere, the St. Helena high pressure system intensified while the Mascarene high pressure system generally relaxed. This configuration reduced the strength of the East African Ridge. As a result, the Inter-Tropical Convergence Zone (ITCZ) continued moving south-wards from the northern hemisphere.

WEATHER SUMMARY DURING SEPTEMBER 1-10, 2014

During the period under review, rainfall was reported over most areas of the Lake Victoria basin, parts of north-eastern highlands and along the coastal strip. The highest rainfall amount recorded was between 200-250 mm over some parts of Morogoro and Coast regions as shown in Figure 1.

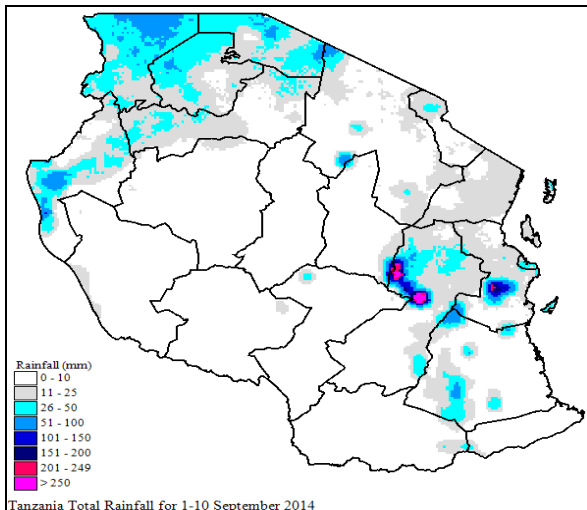


Figure 1: Satellite Rainfall Estimates merged with gauge data from Tanzania rainfall stations network showing total rainfall distribution in the country during September 1-10, 2014 period. Areas over south-western, central and southern regions experienced dry conditions.

AGROMETEOROLOGICAL SUMMARY DURING SEPTEMBER 1-10, 2014

During September 1-10, 2014, the observed onset of rain season over bimodal areas provided sufficient moisture for land preparation and early planting of crops and will improve the rate of pasture recovery and water availability for livestock and wildlife.

HYDROLOGICAL CONDITIONS DURING SEPTEMBER 1-10, 2014

Water levels in dams and river flow discharges over bimodal areas are expected to recover significantly due to the prevailing rain season.

ENVIRONMENTAL CONDITIONS DURING SEPTEMBER 1-10, 2014

During the period, moderate to strong winds and warm to cool night temperature were observed over most part of the country.

EXPECTED SYNOPTIC CONDITIONS DURING SEPTEMBER 11-20, 2014

During September 11-20, 2014, the high pressure systems over the northern hemisphere are expected to continue intensifying slightly, while those in the southern hemisphere are expected to maintain their strength. In view of that, the ITCZ is expected to move slowly south-wards within the northern hemisphere. The meridional arm of ITCZ is expected to move slightly east-wards in the Congo basin and influence weather over some parts of the Lake Victoria basin. The continuing neutral to cool Sea Surface Temperatures (SSTs) over the Somali coast and neutral to warm SSTs in South-West Indian Ocean, close to Tanzanian coast, are expected to induce shallow convection over some areas and therefore influence rainfall activities over the north-eastern sector and coastal strip of the country.

**EXPECTED WEATHER DURING
SEPTEMBER 11-20, 2014**

Lake Victoria Basin (Kagera, Geita, Mwanza, Mara, Simiyu and Shinyanga regions including northern parts of Kigoma region): Isolated rain showers and thunderstorms are expected over some areas. Cold nights and periods of strong winds are also expected. Northern coast (Dar es Salaam, Morogoro and Tanga regions together with the isles of Unguja and Pemba): Occasional rain showers over few areas and warm nights are expected. North-eastern highlands (Kilimanjaro, Arusha and Manyara regions): Few rain showers are expected especially over high grounds. Western regions (Kigoma, Rukwa and Tabora regions): Mainly dry and cool to warm night conditions are expected. Central areas (Dodoma and Singida regions): Mainly dry and cold to slightly warm and moderate windy conditions are expected. South-western highlands (Southern Rukwa, Katavi, Njombe, Iringa and Mbeya region): Mainly dry and cold night conditions are expected. However, occasional rain showers are also expected. Southern Coast (Mtwara and Lindi regions): Mainly dry conditions and relatively warm nights are expected. However, few rain showers are also expected at times. Southern region (Ruvuma region): Mainly dry and cold night conditions are expected.

**AGROMETEOROLOGICAL OUTLOOK AND
ADVISORY DURING SEPTEMBER 11-20, 2014**

The seasonal rainfall which is expected to continue during September 11-12, 2014 over bimodal areas will provide sufficient moisture for farmers to prepare land and start planting in some areas.

BIMODAL AND UNIMODAL AREAS

1. *Bimodal areas*: Areas which experience two rainfall seasons (Oct - Dec/Jan and March - May). These are areas covering Lake Victoria Basin (Kagera, Geita, Mwanza, Mara, Simiyu and Shinyanga regions including northern parts of Kigoma region), northern coast (Dar es Salaam, Morogoro and Tanga regions together with the Isles of Unguja and Pemba) and northeastern highlands (Kilimanjaro, Arusha and Manyara regions).

2. *Unimodal areas*: Areas which experience one rainfall season (Nov - Apr). These are areas covering western areas (Kigoma, Rukwa, Katavi and Tabora regions), central areas (Dodoma and Singida regions), southwestern highlands (Njombe, Iringa and Mbeya region), southern coast (Mtwara and Lindi regions) and southern areas (Ruvuma region).

Prepared by

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