



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 29, 2013
11-20 OCTOBER, 2013**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities in the country have reduced significantly as compared to the previous dekad. Kabarak station in Rift Valley region recorded the highest amount of rainfall of 129.7mm in the entire country. In the Western region, Kakamega station recorded the highest amount of 28.4mm while in Lake Region, Kisii station recorded 26.1mm. In the North Eastern region, there was drastic reduction in rainfall amount with Moyale station reporting 3.0mm. In the Eastern region, Mwea station reported the highest amount of 23.6mm which was an improvement as compared to the previous dekad. In Nairobi region, Moi Airbase recorded the highest amount of 6.7mm while in Central region; Nyahururu station recorded the highest amount of 7.0mm. In the Coastal region, the distribution was good with Voi station recording the highest amount of 60.5mm.

Generally, there was an increase in the maximum temperature over the whole country. The highest observed maximum temperature was 37.1°C at Lodwar station compared to 36.6°C reported in the same station during the previous dekad. The minimum temperature decreased slightly in the whole country. Nyahururu station in Central region reported the lowest of 6.6°C compared to the previous dekad where it recorded 6.5°C.

For a more comprehensive summary of rainfall and other meteorological parameters, see Figures 3.1 to 3.4 as shown below.

2. CROP AND WEATHER REVIEW FOR DEKAD 29; 11-20 OCTOBER 2013

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 26.4mm. The mean air temperature and pan evaporation were 21.1°C and 38.2mm respectively. There was no report on sunshine duration

Beans were at flowering stage and in a good state

2.1.2 Kisii

The station recorded rainfall of 26.1mm. The mean air temperature and pan evaporation were 20.8°C and 41.6mm respectively. There was no report on sunshine.

Both maize and beans were in the emergence and flowering stages respectively and in fair state. Most farmers are still weeding.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station received rainfall amount of 32.9mm. The average air temperature and Evaporation Pan were 19.6°C and 41.4 respectively. There was no report on sunshine duration.

Maize was at harvest stage and in good state as normal yield is expected. Farmers are still harvesting their maize crop.

2.2.2 Eldoret-Kapsoya

The station received rainfall amount of 5.2mm. The average air temperature and Evaporation pan reported were 11.3°C and 55.3mm respectively. There was no Sunshine.

Maize was at maturity stage and in fair state as normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 4.1mm. The average air temperature was 19.6°C. There was no report on pan evaporation and sunshine parameters.

Farmers in the region have completed harvesting maize and now busy preparing land for the short rains season.

2.3.2 Kabete

The station recorded trace in rainfall amount. The average air temperature and pan evaporation recorded were 19.5°C and 59.5mm respectively. There was no report on sunshine duration.

Farmers are still preparing their farms for the short rains season. Coffee was at 100% berry hard stage and in a moderate state but damaged by leaf rust and leaf minor at less than 10% each. Bananas were at 100% appearance of sucker stage and in a moderate state.

2.3.3 Thika

The station received rainfall amount of 0.3mm. The mean air temperature and pan evaporation recorded were 21.9°C and 51.5mm respectively. No report on and sunshine duration.

Land preparation continues.

2.3.4. Nyahururu

The station received 7.0mm of rainfall. The mean air temperature and pan evaporation recorded were 14.4°C and 47.0mm respectively. There was no report on sunshine.

Maize was at maturity stage and in a good state while potatoes were at harvest stage and in a fair state. Normal yield is expected for both crops.

2.3.5. Dagoretti

The station received rainfall amount of 4.6mm and mean air temperature was 20.1⁰C. There was no report on Evaporation pan and sunshine duration.

Planting has taken place and now waiting for the rain for germination

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station reported rainfall amount of 1.4mm. The average air temperature was 20.2⁰C. There was no report on pan evaporation and sunshine duration.

Land is being prepared for the short season rain.

2.4.2 Embu

The station recorded rainfall amounts of 2.2mm. Pan Evaporation recorded was 56.2mm and no report on sunshine duration.

Farmers have started planting their seeds.

2.4.3 Katumani (Machakos)

The station recorded rainfall amount of 2.2mm. The average air temperature was 20.6⁰C. There was no report on sunshine duration and pan evaporation.

No phenological report

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 1.4mm. The average air temperature and pan evaporation recorded was 27.2⁰C and 47.9mm respectively. There was no report on sunshine duration.

Some farmers have started planting their seeds for short rains season (OND). Mangoes were at 100% fruit setting stages and in good state

2.5.2 Mtwapa

The station received rainfall amount of 5.3mm. The average air temperature recorded was 26.3⁰C. There was no report on sunshine duration and pan Evaporation.

Mangoes were at flowering stage and in fair state as land preparation is underway.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

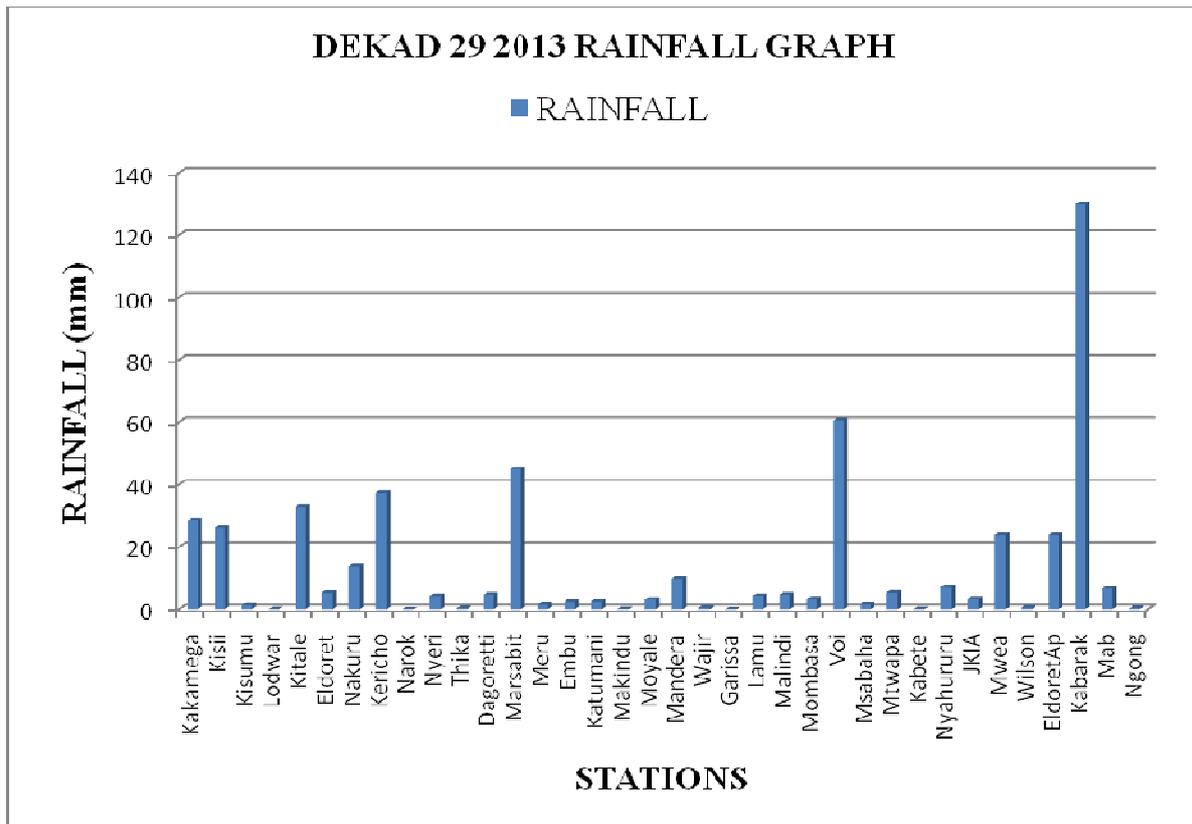


Figure 3.1: Dekadal rainfall totals for 11st to 20th October 2013

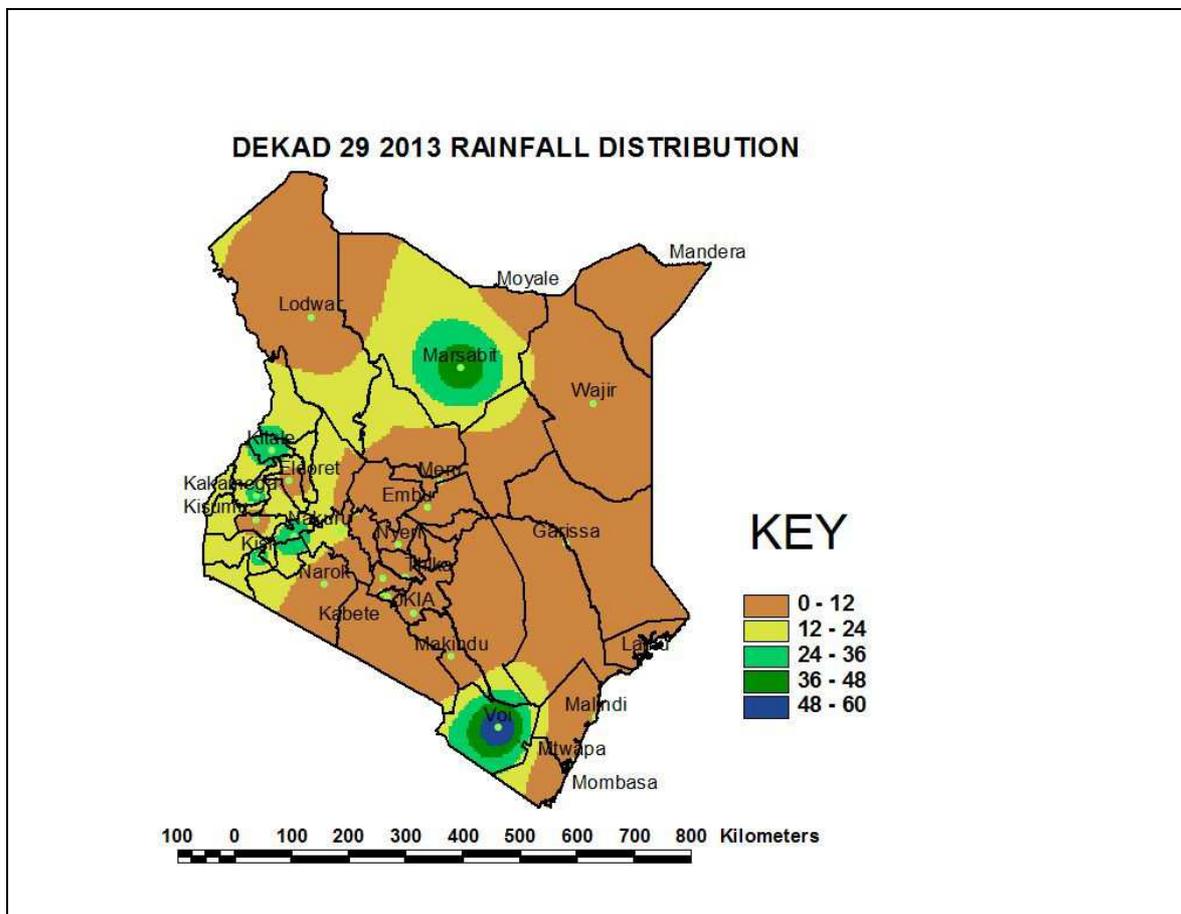


Figure 3.2: Dekadal rainfall distribution for dekad 29, 2013

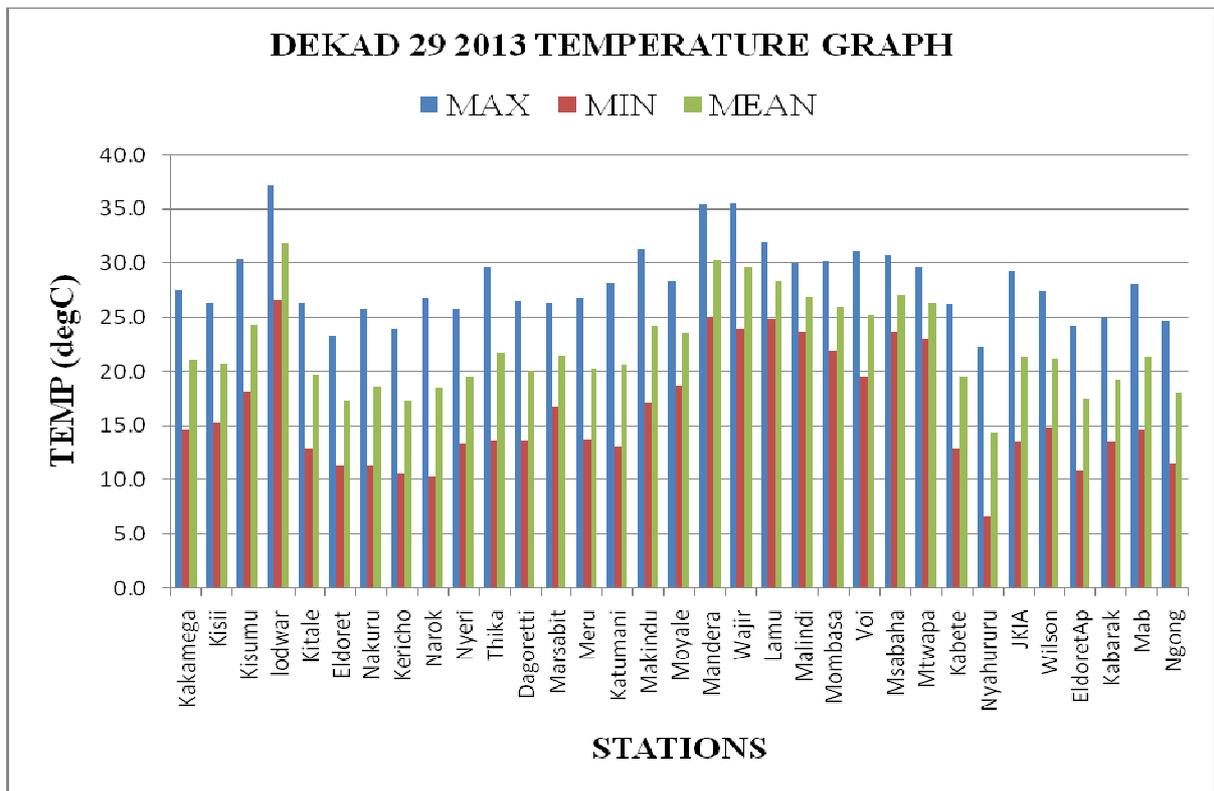


Figure 3.3: Maximum, Minimum and Average temperature in °C for dekad 29, 2013

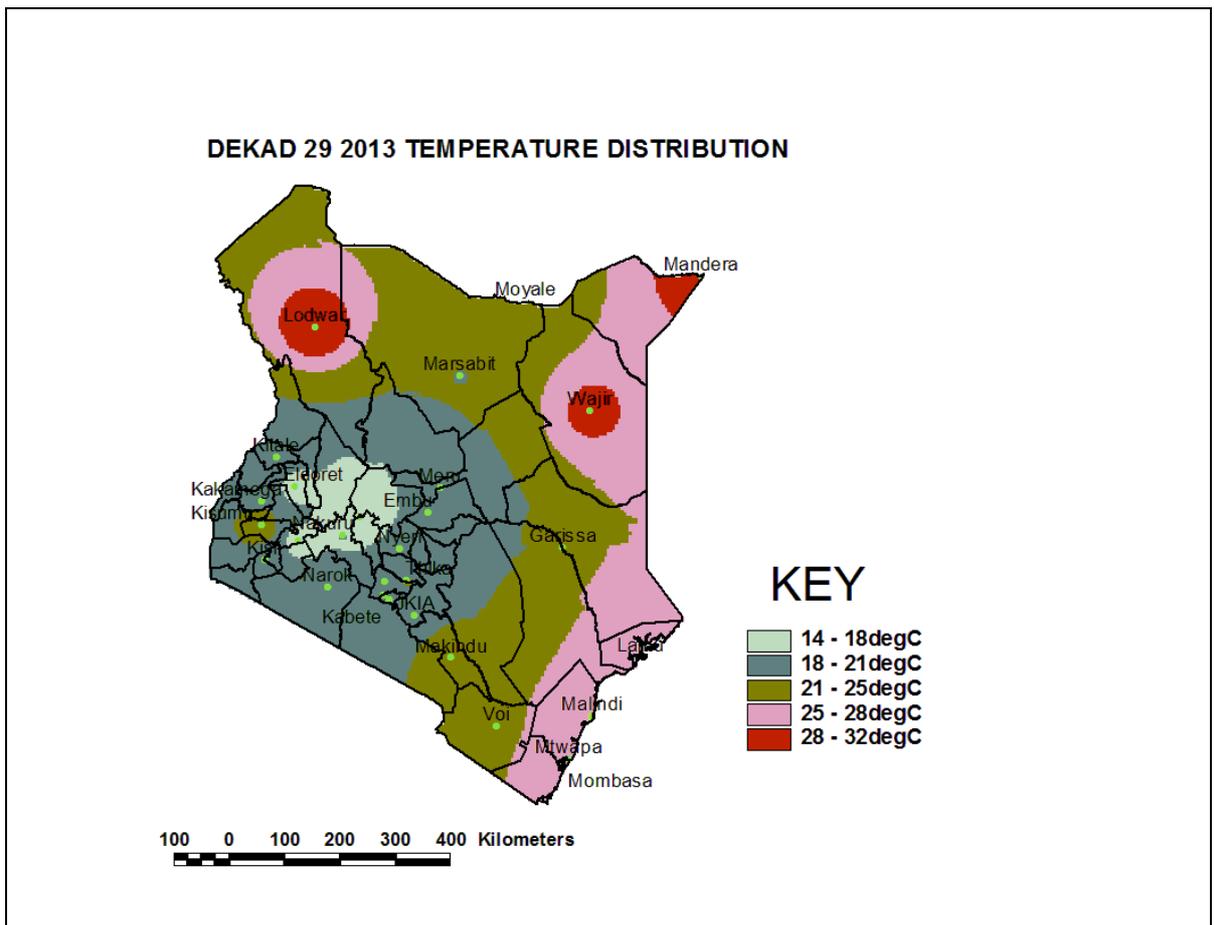


Figure 3.4: Mean temperature distribution for dekad 29, 2013

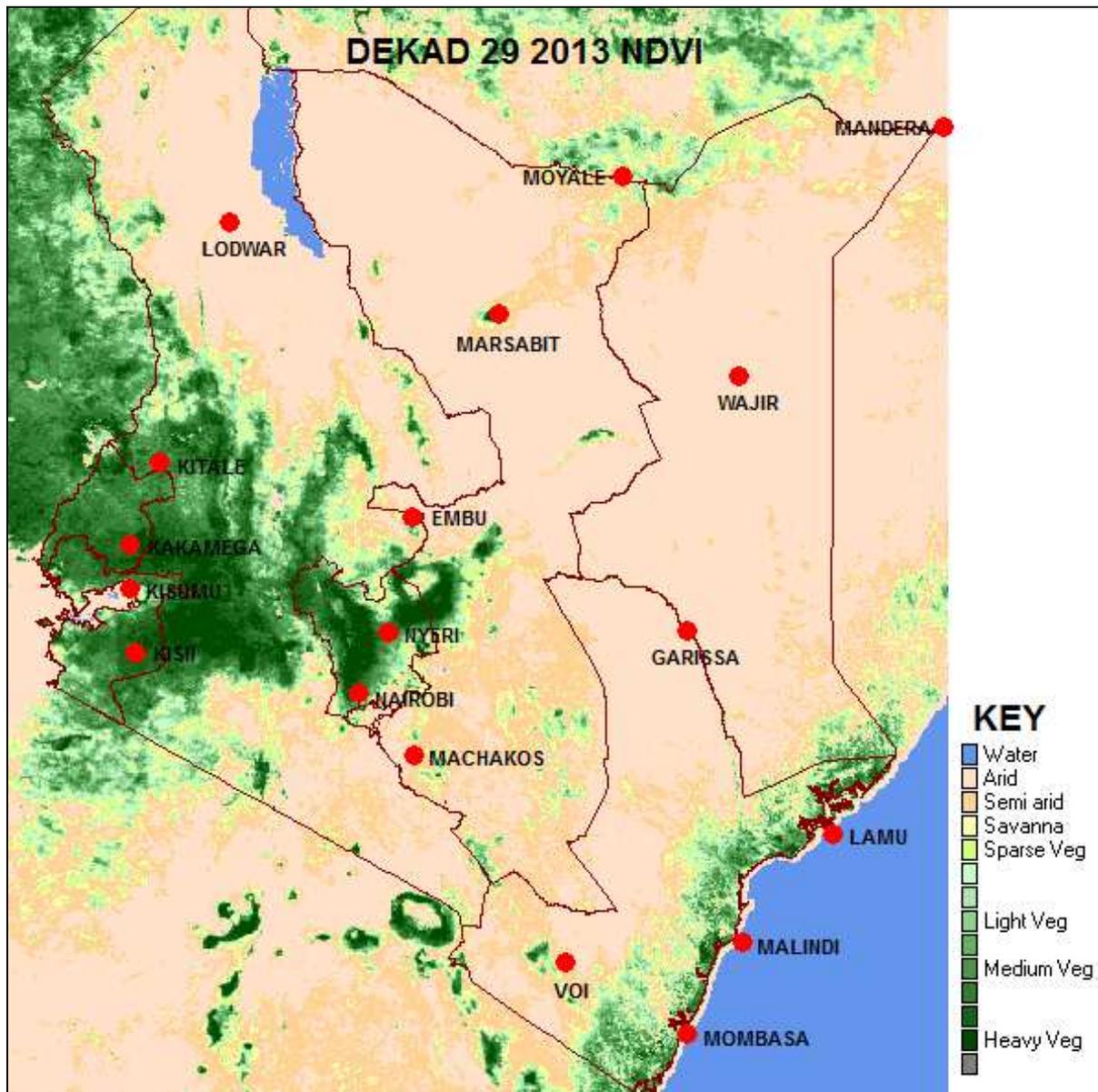


Figure 3.5: Normalized Difference Vegetation Index (NDVI)

**4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;
21-31 OCTOBER 2013**

- ❖ **Counties within the Lake Victoria Basin, Highlands west of the Rift Valley, Nyamira, Kericho, Bomet, Uasin-Gishu, Nakuru, Narok, Trans Nzoia, Elgeyo Marakwet, Nandi, Laikipia, Kajiado, Vihiga and Busia),** are expected to experience sunny intervals in the morning, showers and thunderstorms are likely in afternoon over several places in the whole forecast period.

The showers are expected to benefit the already emerged crops in the region.

- ❖ **Over the Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals throughout the forecast period.

The sunny weather is expected to worsen the state of pasture and vegetation conditions in these counties.

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga),** are expected to experience sunny interval in the mornings throughout the forecast period. In the afternoon, there shall be sunny intervals in the first days and showers over few places in the last three days of the forecast period.

The expected showers will enhance the land preparation activity.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience sunny intervals over the whole forecast period.

Dry conditions are expected to deteriorate the state of pasture and vegetation in these counties, and may cause conflict to the people living there due to water and pasture scarcity

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny intervals in the entire forecast period.

Dry conditions are expected to degenerate the situations of pastures water and vegetation in these regions.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience sunny intervals throughout the forecast period.

The sunny conditions will be very uncondusive to the flowering mangoes and the planted seeds.

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