



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 29, 2014
11-20 OCTOBER, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was an increase in rainfall intensity while the spatial distribution slightly decreased during the dekad. Marsabit station in North Eastern region recorded the highest rainfall amount of 127.3mm countrywide compared to 107.3mm reported in Coastal region at Msabaha station during the previous dekad. The second highest rainfall amount of 119.8mm was recorded in Rift Valley region at Kitale station. Wilson Airport station in Nairobi region recorded the highest rainfall amount of 119.6mm. In Eastern region, Meru station reported the highest rainfall amount of 93.5mm. Kisii station in Nyanza region received the highest rainfall amount of 61.3mm. In Western region, Kakamega station reported the highest rainfall amount of 52.6mm. Nyeri station in Central region recorded the highest rainfall amount of 37.2mm while in Coastal region; Mtwapa station received the highest rainfall amount of 34.5mm.

Both maximum and minimum temperatures still continued on an increasing trend. North Eastern region still recorded the highest maximum temperature of 35.6°C at Mandera station. Nyahururu station in Central region continued to record the lowest minimum temperature of 8.7°C compared to 6.9°C in the previous dekad.

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 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded a decrease in rainfall amount of 52.6mm compared to 75.8mm in the previous dekad. The mean air temperature and Pan Evaporation reported were 21.1°C and 3.5mm respectively. There was no report on Sunshine duration.

Beans were at flowering stage and in good state with normal yield expected.

2.1.2 Kisii

The station reported an increase in rainfall amount of 61.3mm compared to 53.7mm recorded in the previous dekad. The mean air temperature and Pan Evaporation recorded were 20.6°C and 5.2mm respectively. There was no record on Sunshine parameter.

Maize and beans crops were at flowering stages and maturity respectively and both in fair state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 119.8mm. Pan Evaporation recorded was 4.1mm. There was no report on mean air temperature and sunshine duration.

No phenological report.

2.2.2 Eldoret-Kapsoya

The station recorded rainfall amount of 30.0mm. The mean air temperature and Pan Evaporation recorded were 17.9°C and 4.2mm respectively. There was no record on sunshine duration.

Maize was at maturity stage and in poor state. Below normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 37.2mm. The average air temperature was 19.7°C. There was no report on pan evaporation and sunshine parameters

Maize and beans crops were at emergence stage and in fair state while planting for the short rains is still in progress.

2.3.2 Kabete

The station recorded rainfall amount of 99.1mm. There was no mean air temperature, Pan Evaporation and sunshine parameter.

Farmers have prepared their land for the short rains season.

2.3.3 Thika

The station recorded rainfall amount of 16.2mm. The mean air temperature and Pan Evaporation recorded were 22.5°C and 5.2mm respectively. There was no report on sunshine duration.

Farmers are planting maize and beans for the short rains.

2.3.4. Nyahururu

The station reported rainfall amount of 67.3mm. The mean air temperature and Pan Evaporation recorded were 15.5°C and 3.9mm respectively. There was no report sunshine duration.

Maize was still at flowering stage and in fair state. Potatoes were also at flowering stage and in fair state hence normal yield for the crops is expected.

2.3.5. Dagoretti

The station reported rainfall amount of 110.5mm. There was no average air temperature, pan evaporation and Sunshine report.

No report on phenological observations.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 93.5mm. The average air temperature and Pan Evaporation recorded were 20.4°C and 4.7mm respectively. The Sunshine duration reported was 2.9 hr/day.

Most farmers have finished planting for the short rains.

2.4.2 Embu

The station recorded rainfall amount of 50.5mm. There was no mean air temperature, pan Evaporation and sunshine report.

Farmers have started planting for the short rains season.

2.4.3 Katumani (Machakos)

The station reported rainfall amount of 22.5mm. The average air temperature reported was 21.2°C. There was no report on pan evaporation and Sunshine duration.

No phenological report.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 9.9mm. The average air temperature and pan Evaporation recorded were 26.5°C and 4.2mm respectively. There was no report on sunshine duration.

Maize was still at emergence stage and in fair state. Mangoes were at 100% fruit setting stage and in good state.

2.5.2 Mtwapa

The station received rainfall amount of 34.5mm. The average air temperature recorded was 26.1°C. There was no report on Sunshine duration and pan Evaporation.

Mangoes were still at flowering stage and in good state. Land preparation is still underway.

3.0 ANALYSIS OF RAINFALL, TEMPERATURE AND VEGETATION CONDITIONS

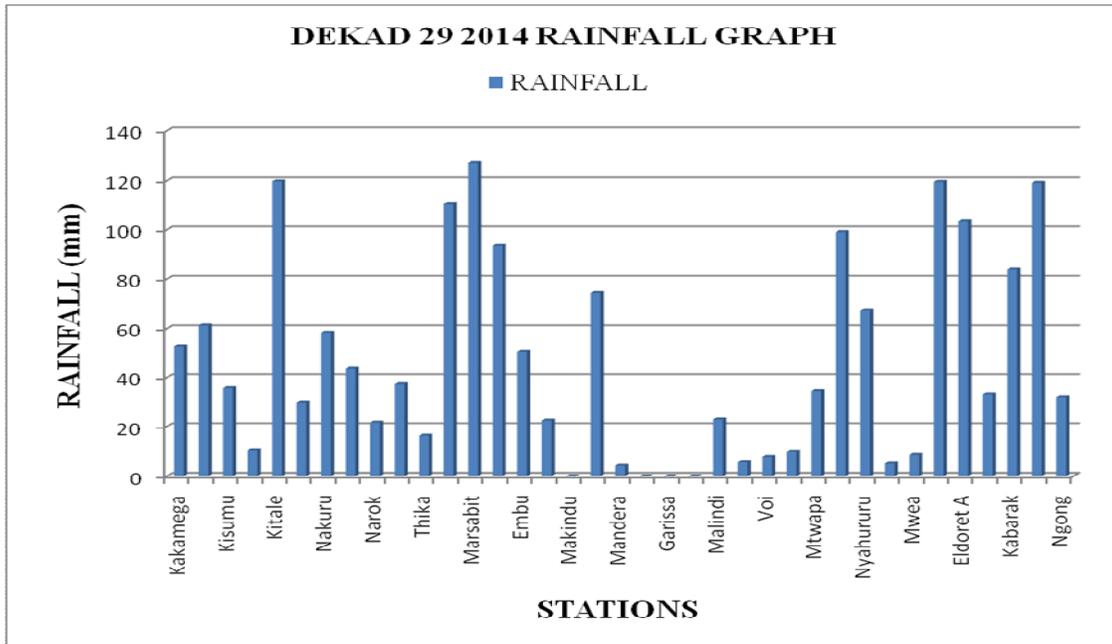


Figure 3.1: Dekadal rainfall totals for 11-20 OCTOBER 2014

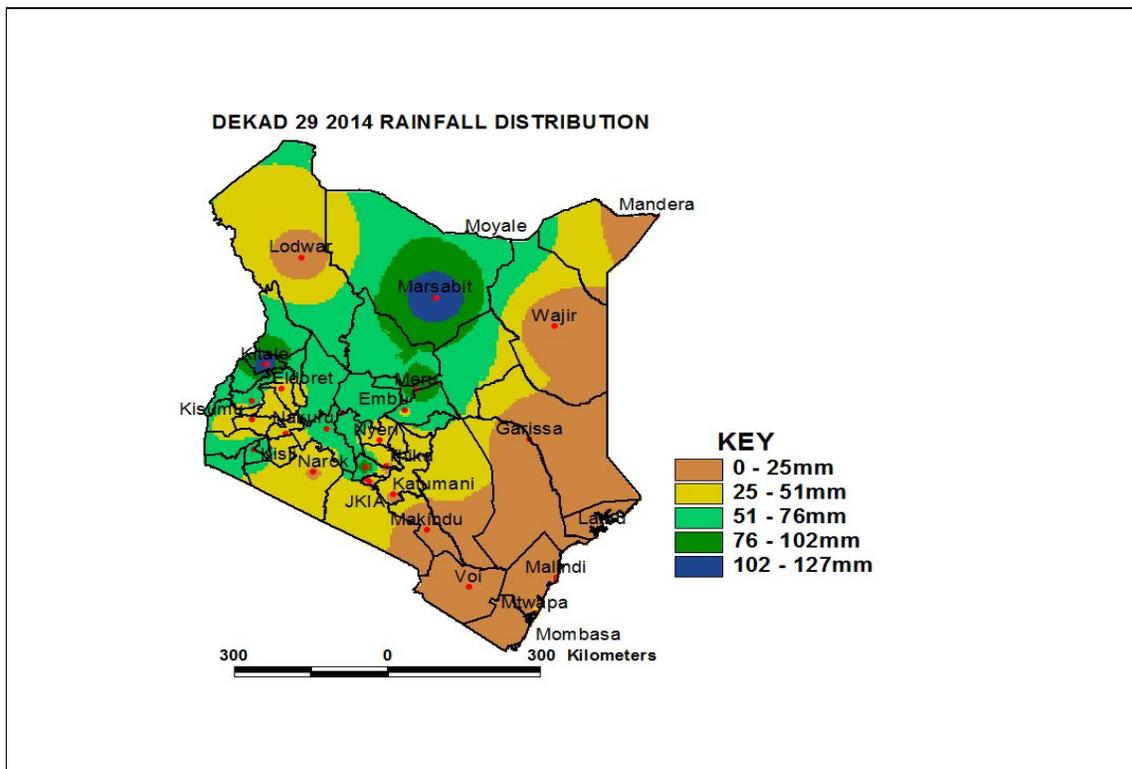


Figure 3.2: Dekadal rainfall distribution for dekad 29, 2014

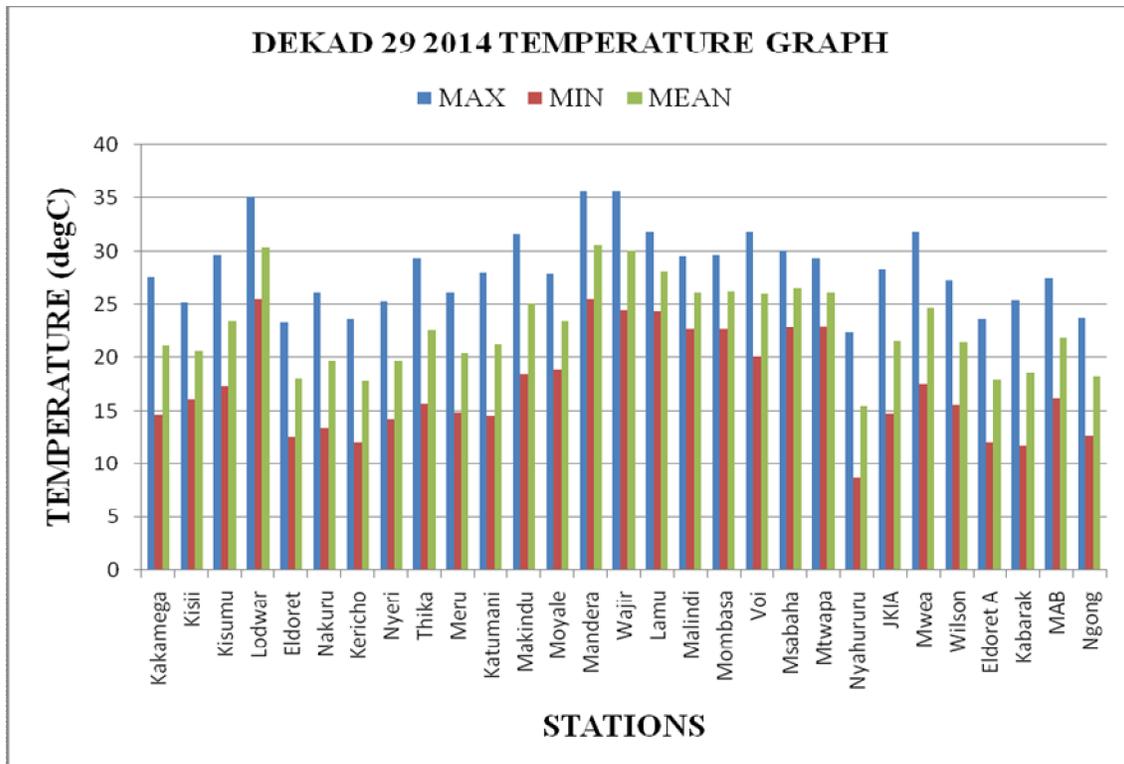


Figure 3.3: Maximum, Minimum and Average temperature for dekad 29, 2014

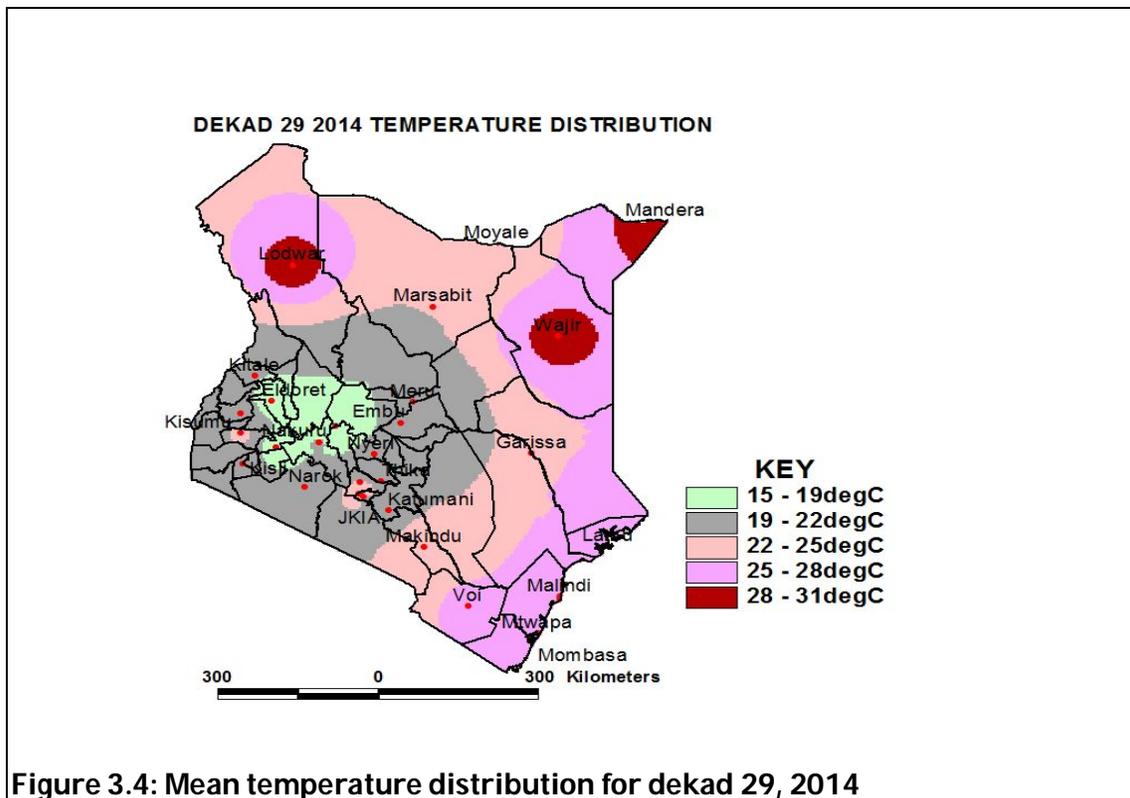


Figure 3.4: Mean temperature distribution for dekad 29, 2014

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-31 OCTOBER 2014

- ✚ **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 mainly sunny intervals in the morning for the entire forecast period with occasional rains over few places. Afternoon/evening are expected to have showers and thunderstorms over several places throughout the forecast period.

The expected rains and showers will boost the soil moisture thereby benefiting the growth and development of the beans still in flowering stage. Further, the expected conditions are favourable for the growth of pasture and the general vegetation. This will continue to support livestock production. However, excessive rains continued rainfall may introduce aflatoxin to the maize crop already in maturity stage.

- ✚ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience mainly sunny intervals in the morning and showers over few places in the afternoon throughout the forecast period.

The showers will impact positively on the growth of pasture and vegetation that will boost the keeping of livestock in these regions.

- ✚ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga),** are expected to experience mainly sunny intervals in the morning with occasional morning rains over few places. Afternoon/evening are expected to experience showers that will be occasionally accompanied by thunderstorms over few places for the entire forecast period.

The rains and showers will replenish soil moisture that will benefit the crops which are in emergence and flowering stages in the region.

- ✚ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience sunny intervals in the morning and showers over few places in the Afternoon throughout the forecast period.

The rains and showers are of great importance to the pasture and vegetation growth that mainly sustain livestock keeping in the region.

- ✚ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny intervals in the morning throughout the forecast period and afternoon/evening showers on the first three days and sunny intervals for the rest of the forecast period.

The showers are of benefit to the pasture and vegetative growth that will support livestock rearing in the region.

- ✚ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience mainly sunny intervals throughout the day with showers over few places in the south coast in the morning on the second and third days of the forecast period.

The sunny conditions will be of great importance to land preparation, weeding and the development of mangoes that are in fruit setting and flowering stages in the north coast. The showers in the south coast will be beneficial to the vegetative growth.

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