



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 30, 2014
21- 31 OCTOBER, 2014**

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was a decrease in both rainfall intensity and spatial distribution during the dekad. Meru station in Eastern region recorded the highest rainfall amount of 93.2mm countrywide compared to 127.3mm reported in North Eastern region at Marsabit station during the previous dekad. During the current dekad, 81.7mm was observed at Marsabit. The second highest rainfall amount observed in the country was 89.1mm at Nyeri in the Central region.

Over the Western Kenya region, Kakamega recorded the highest amount of 46.5mm while in Nyanza, the highest rainfall of 80.0mm, was recorded by Kisii station. Kericho station received 70.3mm which was the highest in the Rift Valley region. In Nairobi region, Kabete station received the highest rainfall amount of 7.3mm and finally in the Coastal region, the highest rainfall observed was 60.4mm in Mombasa.

Maximum temperatures in most stations generally decreased except the coastal stations which recorded an increase. Wajir station in North Eastern region recording the highest maximum temperature of 35.6°C which was the same temperature recorded at Mandera station in the previous dekad.

Minimum temperatures remained the same as in the previous dekad. Nyahururu in Central region recorded 7.9°C which was a reduction compared to 8.7°C observed 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 30: 21 - 31 OCTOBER 2014

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded a decrease in rainfall amount of 46.5mm compared to 52.6mm in the previous dekad. The mean air temperature and Pan Evaporation reported were 21.5°C and 4.3mm respectively. There was no report on Sunshine duration.

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

2.1.2 Kisii

The station reported an increase in rainfall amount of 80.0mm compared to 61.3mm recorded in the previous dekad. The mean air temperature and Pan Evaporation recorded were 20.5°C and 4.0mm respectively. There was no record on Sunshine parameter.

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

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded rainfall amount of 63.1mm. Pan Evaporation recorded was 4.2mm. 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 46.1mm. The mean air temperature and Pan Evaporation recorded were 18.0°C and 6.0mm respectively. There was no record on sunshine duration.

Maize was at maturity stage and in poor state due to insufficient rain which occurred mainly during the crop's vegetative stage, hence below normal yield is expected.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received rainfall amount of 89.1mm. The average air temperature was 18.7°C. There was no report on pan evaporation and sunshine parameters

Both maize and beans crops were at emergence stage and in fair state due to sufficient rain in this dekad.

2.3.2 Kabete

The station recorded rainfall amount of 7.3mm. There were no mean air temperature, Pan Evaporation and sunshine parameters.

Farmers have prepared their land in readiness for the short rains season.

2.3.3 Thika

The station recorded rainfall amount of 0.5mm. The mean air temperature and Pan Evaporation recorded were 21.9°C and 4.5mm respectively. There was no report on sunshine duration.

Farmers have planted maize and beans for the short rains.

2.3.4. Nyahururu

The station reported rainfall amount of 11.2mm. The mean air temperature and pan Evaporation recorded were 14.7°C and 4.1mm 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 5.1mm. Pan evaporation and Sunshine recorded were 4.9mm and 7.0hrs/day respectively. There was no report on average air temperature.

No report on phenological observations.

2.4 EASTERN KENYA REGION

2.4.1 Meru

The station recorded rainfall amount of 93.2mm. The average air temperature and Pan Evaporation recorded were 19.7°C and 5.1mm respectively. The Sunshine duration reported was 8.1 hr/day.

Maize and beans were at emergence stage and in fair state due to sufficient rain received during the dekad.

2.4.2 Embu

The station recorded rainfall amount of 17.5mm. There was no report on mean air temperature, pan Evaporation and sunshine parameters.

Farmers have planted for the short rains season.

2.4.3 Katumani (Machakos)

The station reported rainfall amount of 1.5mm. The average air temperature reported was 21.0°C. There was no report on pan evaporation and Sunshine parameters.

Both maize and beans were at emergence stage and in poor state due to insufficient rainfall.

2.5. COASTAL REGION

2.5.1 Msabaha

The station received rainfall amount of 26.0mm. The average air temperature and pan Evaporation recorded were 27.7°C and 5.3mm 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 13.4mm. The average air temperature recorded was 27.5°C. There was no report on pan Evaporation and Sunshine duration parameters.

Mangoes were still at flowering stage and in good state. Land preparation is still underway for the short rains planting.

3.0 ANALYSIS OF RAINFALL AND TEMPERATURE

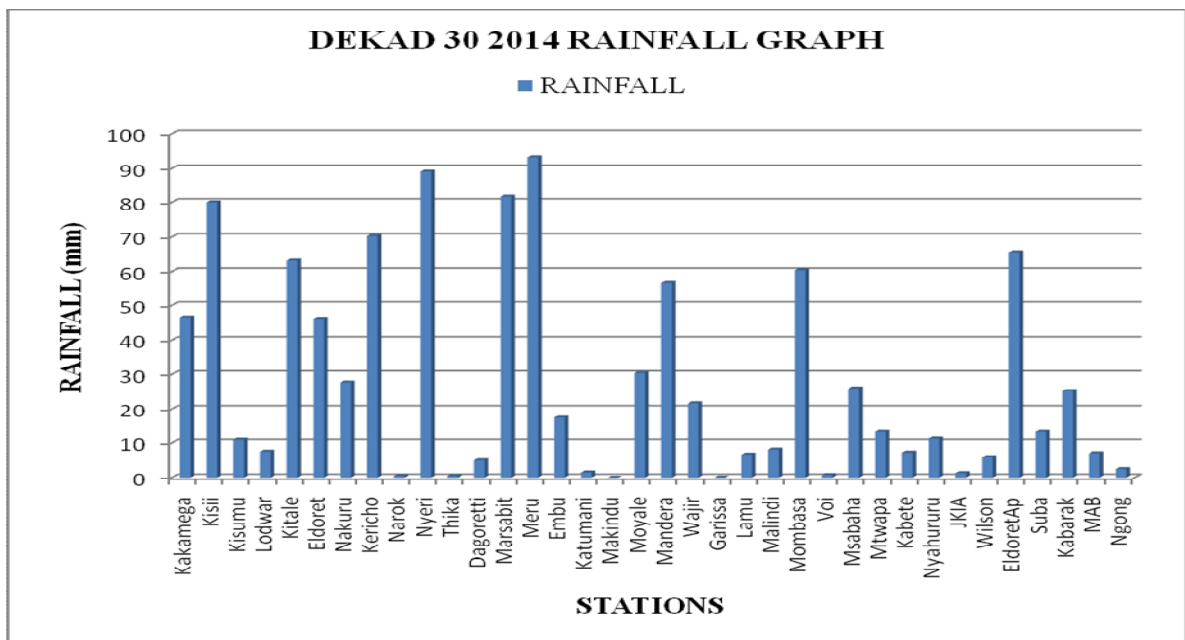


Figure 3.1: Dekadal rainfall totals for 21 - 31 October 2014

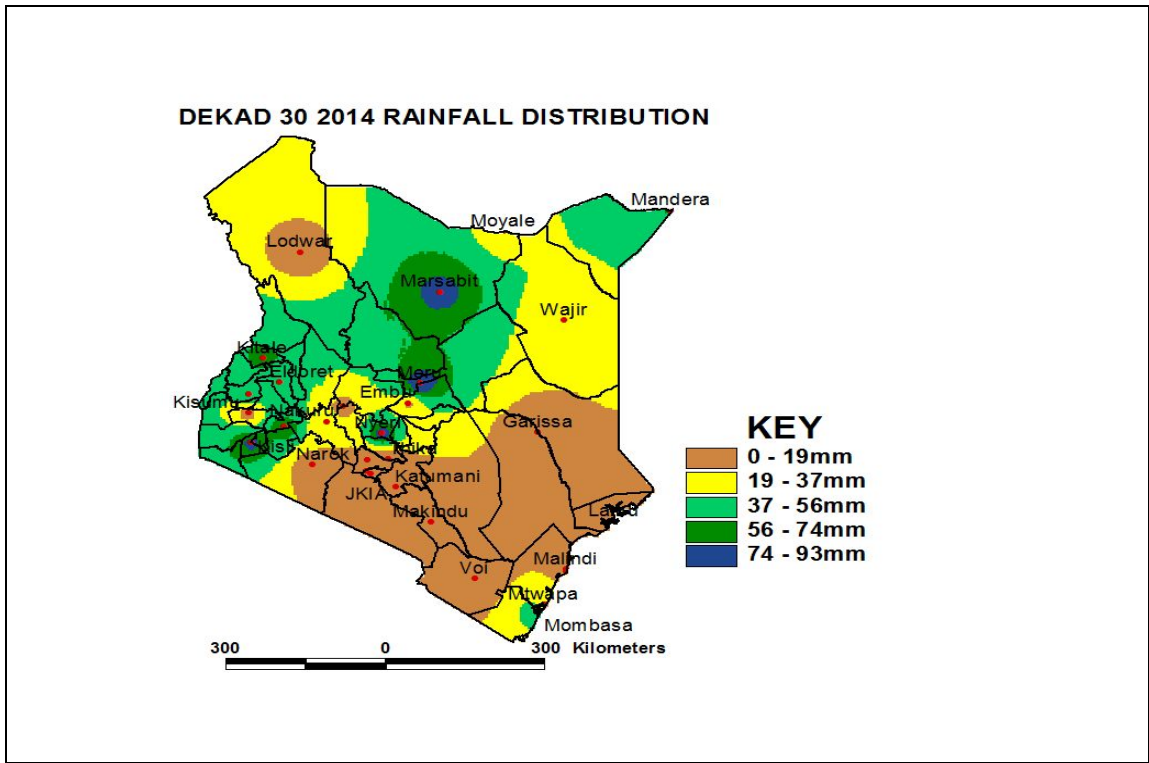


Figure 3.2: Dekadal rainfall distribution for dekad 30, 2014

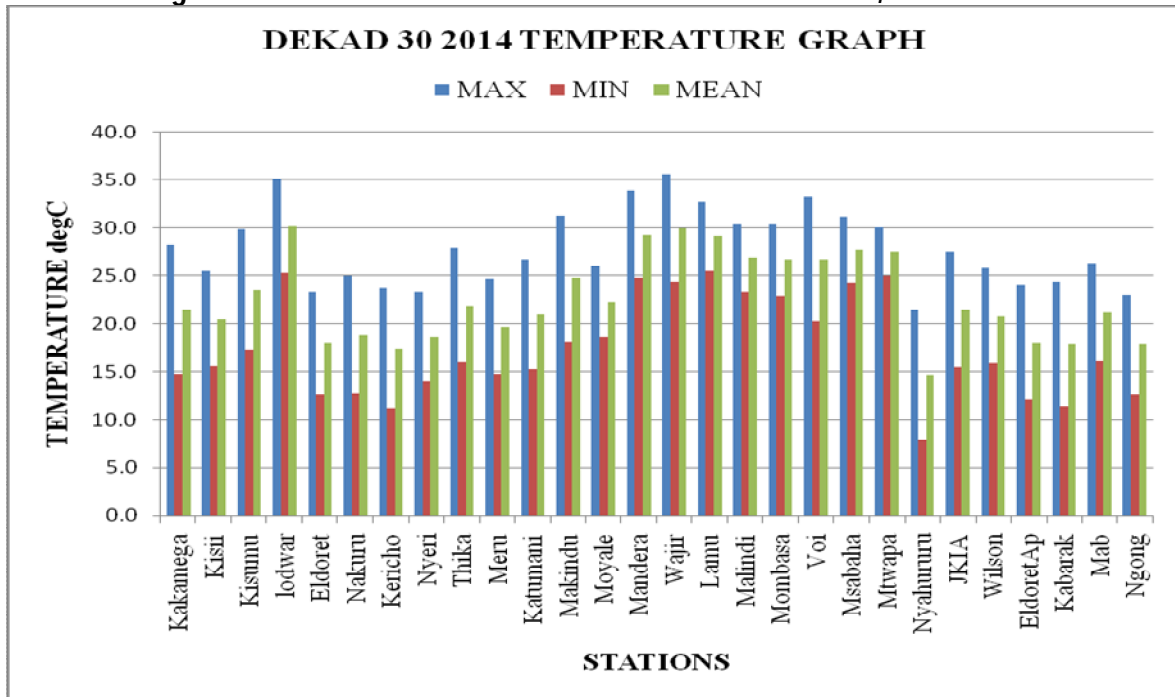


Figure 3.3: Maximum, Minimum and Average temperature for dekad 30, 2014.

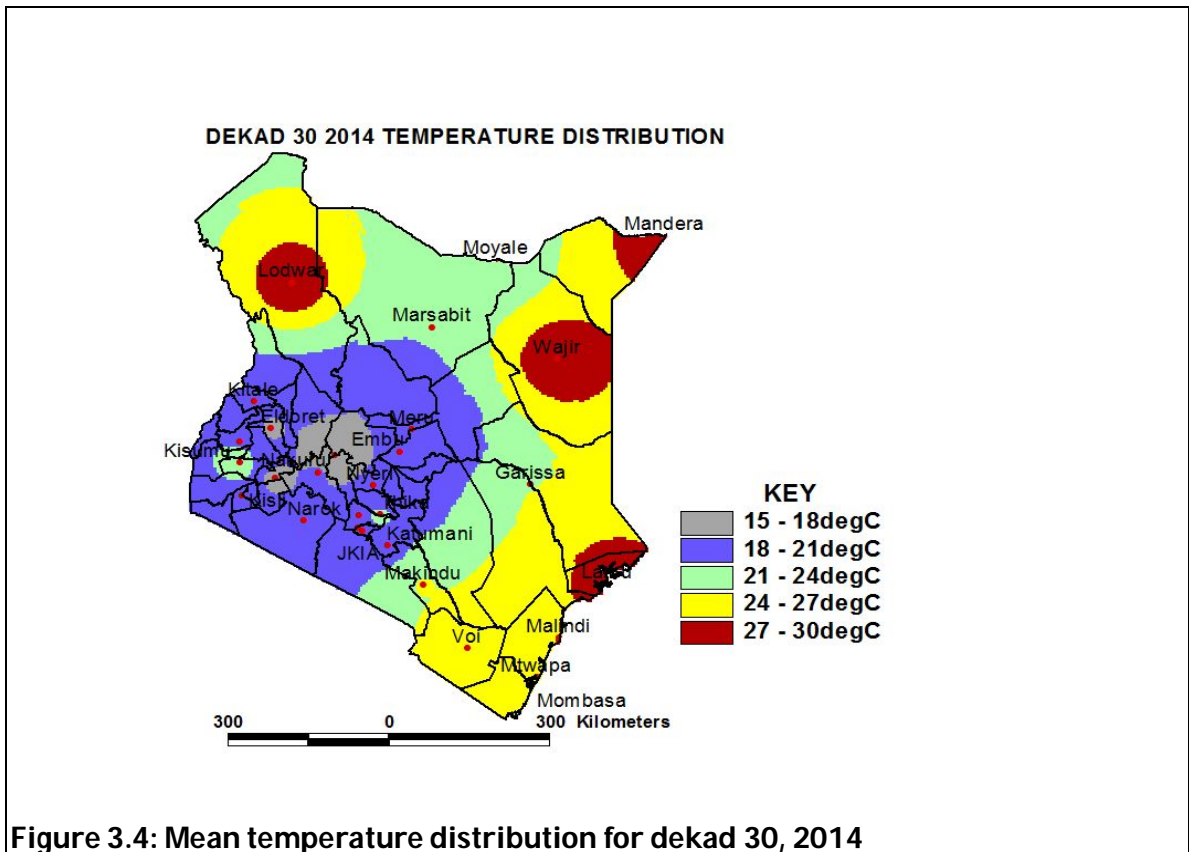


Figure 3.4: Mean temperature distribution for dekad 30, 2014

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;
01-10 NOVEMBER 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 few places on the first five days of the forecast period increasing to several places on the last two days.

The rains and showers will boost soil moisture that will be beneficial to the growth and development of Maize crop that are still in flowering stage, it also favours the growth of pasture and vegetation that will support livestock keeping.

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals throughout day on the first three days of the forecast period, followed by sunny intervals in the morning and afternoon showers over few places are expected for the rest of the forecast period.

The showers will continue to replenish the growth of pasture and vegetation for the livestock kept 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 rains over few places. Afternoon are expected to experience showers over few places throughout the forecast period

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

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience rains over few places in the morning and showers over few places in the Afternoon on the first three days then sunny intervals in the afternoon for the remainder of 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 mainly sunny intervals in the morning and afternoon/evening showers over few places throughout the forecast period.

The showers are of great benefit to the pasture and vegetation growth for livestock rearing in the region.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience showers over few places in the morning and sunny intervals in the afternoon throughout the forecast period.

The sunny condition will be beneficial in land preparation in places like Mtwapa, and the development of mangoes that are in flowering and fruit setting stages in the north coast. The showers will be beneficial to the growth and development of maize crop that is in the emergence stage in places Msabaha

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