



**KENYA METEOROLOGICAL SERVICE
DEKADAL AGROMETEOROLOGICAL BULLETIN**

WEATHER AND CROP REVIEW FOR DEKAD 28, 1-10 OCTOBER, 2015

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was an increase in rainfall activities in both intensity and spatial distribution compared to the last dekad. The highest rainfall amount countrywide was 55.4mm received at Marsabit station in North Eastern region. Kisii station in the Nyanza region reported the second highest rainfall amount of 52.3mm. In Central region, Nyeri station recorded the highest rainfall amount of 50.7mm. For the Rift Valley region, Kericho station received the highest total rainfall amount of 48.0mm while in the Eastern region; Meru station reported the highest rainfall amount of 46.2mm. The highest rainfall amount recorded in the Coastal region was 42.4mm at Voi station. In Western region, the highest rainfall amount received was 18.1mm at Kakamega station while Dagoretti station in Nairobi region reported the highest rainfall amount of 0.02mm.

Both Maximum and Minimum temperatures were on an increasing trend compared to the previous dekad. Lodwar station in North-Eastern region reported the highest maximum temperature of 37.2°C compared to 36.9°C reported in the previous dekad. Nyahururu station in Central region continued to report the lowest minimum temperature of 7.4°C compared to 6.3°C reported in the last 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 28: 1-10 OCTOBER, 2015

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded rainfall amount of 18.1mm during the dekad. The mean air temperature was 22.6°C. There was no report on Pan Evaporation and sunshine parameters.

Beans were still at emergence stage and in good state.

2.1.2 Kisii

The station recorded total rainfall amount of 52.3mm. The mean air temperature and total Pan Evaporation reported were 21.7°C and 38.4mm respectively. There was no report on sunshine parameter.

Both maize and Beans were still at emergence stage and in fair state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station received total rainfall amount of 9.5mm. The mean air temperature and total Pan Evaporation recorded were 19.9°C and 40.5mm respectively. There was no report on sunshine duration.

Maize was at harvest stage and in good state with normal yield expected.

2.2.2 Eldoret - Kapsoya

The station recorded rainfall amount of 5.7mm. The mean air temperature and total Pan Evaporation recorded were 18.6°C and 62.2mm respectively. There was no report on sunshine parameter.

Maize was at maturity stage and in poor state with below normal yield expected due to insufficient rain.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station recorded total rainfall amount of 50.7mm. The average air temperature was 20.1°C. There was no report on total Pan Evaporation and sunshine parameters.

Farmers had started planting their crops.

2.3.2 Kabete

The station reported rainfall amount of 0.01mm. The total Pan Evaporation reported was 53.0mm. There was no report on Mean air Temperature and sunshine parameters.

Farmers have already completed land preparation and are waiting for the rains.

2.3.3 Thika

The station reported total rainfall amount of 0.9mm. The mean air temperature and total Pan Evaporation recorded were 21.8°C and 54.4mm respectively. There was no report on sunshine duration.

Farmers have started planting maize and potatoes.

2.3.4 Nyahururu

The station recorded total rainfall amount of 0.02mm. The mean air temperature and total Pan Evaporation recorded were 15.9°C and 55.5mm respectively. There was no report on sunshine parameter.

Maize was at flowering stage and in poor state with below normal yield expected due to frost and insufficient rains.

2.3.5 Dagoretti

The station recorded rainfall amount of 0.02mm. The Mean air Temperature and total Pan Evaporation reported were 20.3°C and 55.0mm respectively. There was no report on sunshine hours.

No Phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station reported total rainfall amount of 24.1mm. Total Pan Evaporation reported was 48.6mm. There was no report on Mean air temperature and sunshine parameters.

Planting of crops is going on.

2.4.2 Meru

The station reported total rainfall amount of 46.2mm. The Mean air Temperature and total Pan Evaporation reported were 20.1°C and 48.6mm respectively. There was no report on sunshine parameter.

Farmers are still preparing their farms in readiness for short rain season.

2.4.3 Katumani (Machakos)

The station reported dry conditions. The Mean air Temperature and Pan Evaporation recorded was 21.2°C and 59.5mm respectively. There was no report on Sunshine duration.

No Phenological report.

2.5. COASTAL REGION

2.5.1 Msabaha

The station reported rainfall amount of 15.5mm. The average air temperature and total Pan Evaporation recorded were 27.7°C and 51.5mm respectively. There was no report on sunshine hours.

Mangoes were at 80% flowering stage and in good state and few farmers have started preparing their farms for the short rain season.

2.5.2 Mtwapa.

The station recorded rainfall amount of 23.8mm. The average air temperature and total Pan Evaporation reported were 27.2°C. There was no report on Pan Evaporation and Sunshine parameters.

Harvesting of maize is still in progress as farmers continue preparing their farms for planting.

3. ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

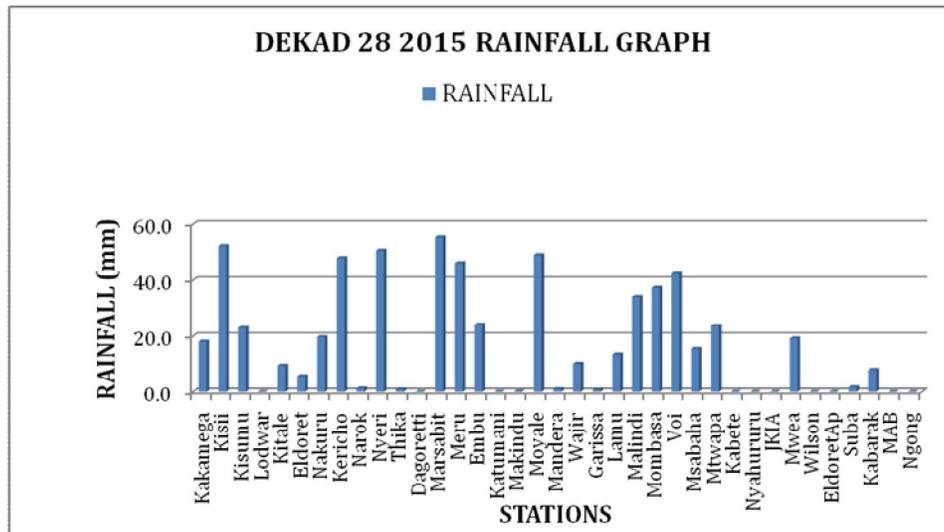


Figure 3.1: Dekadal rainfall totals for 1 –10 October 2015

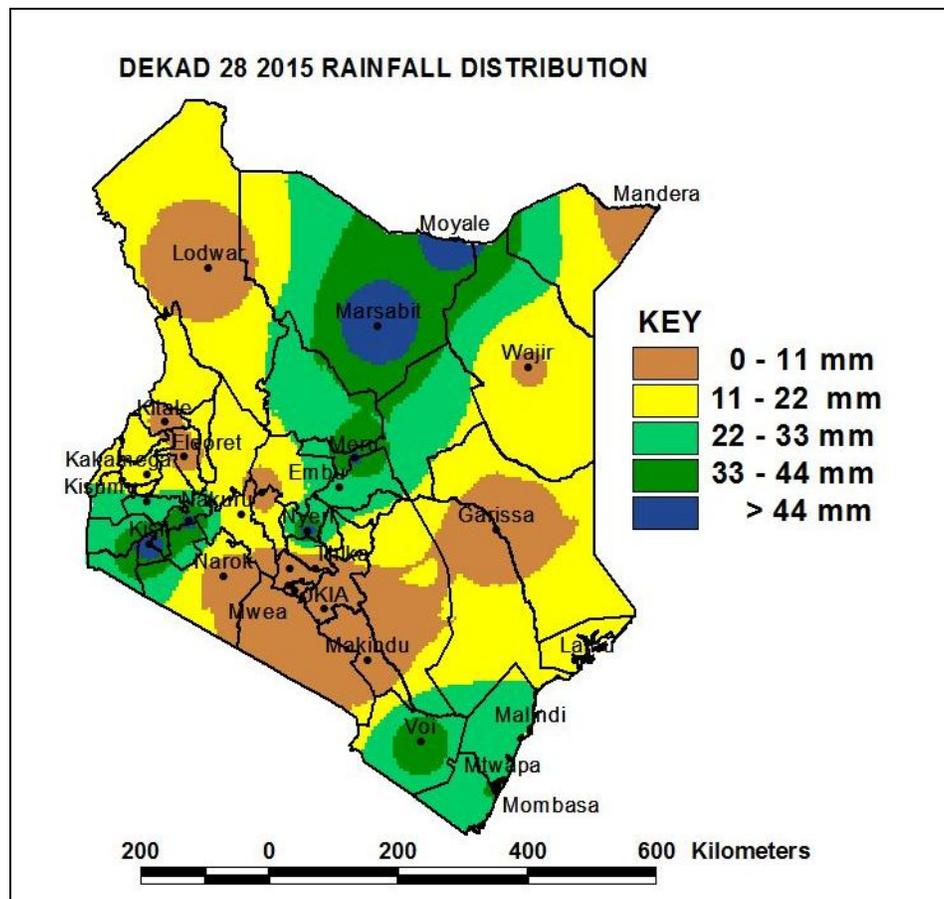


Figure 3.2: Dekadal rainfall distribution for dekad 28, 2015

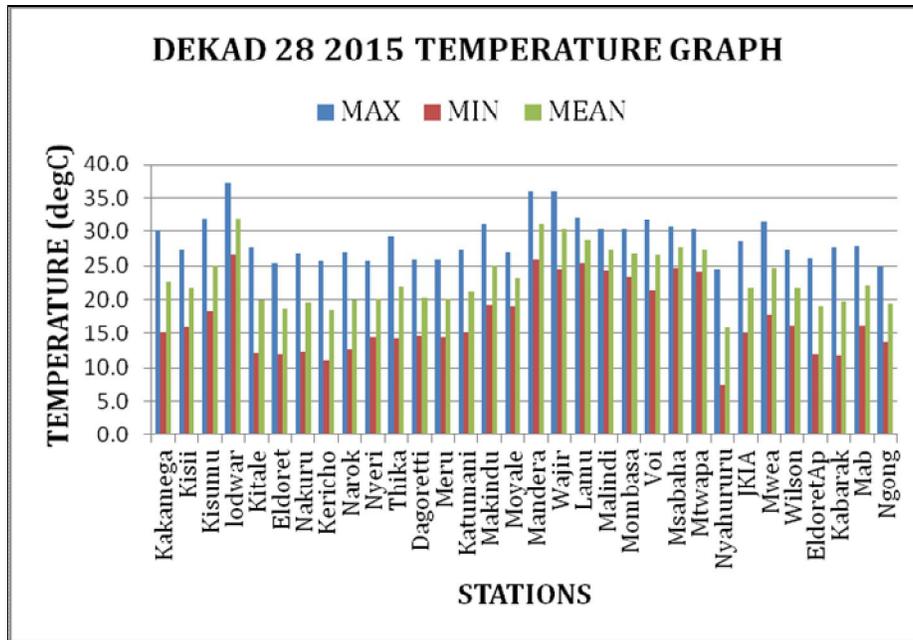


Figure3.3: Maximum, Minimum and Average temperature for dekad 28, 2015

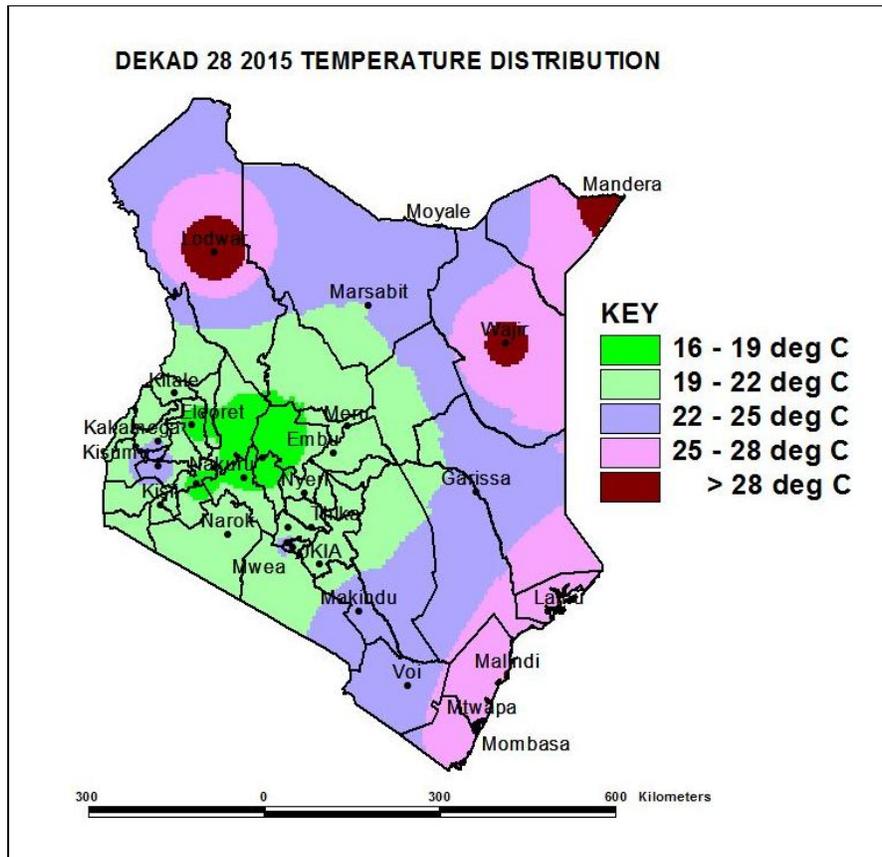


Figure 3.4: Mean temperature distribution for dekad 28, 2015

**4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;
11-20 OCTOBER, 2015.**

- ❖ **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 morning rains over few places for the first two days of the forecast period, breaking into sunny intervals for the next four days followed by rains over a few places for the rest of the forecast period. Afternoon showers and thunderstorms over several places are expected to occur throughout the forecast period.

The rains and the showers will benefit the crops that are in emergence stages in places like Kakamega and Kisii. The showers will also replenish the soil with moisture for the growth of pasture and vegetation for animals kept in this region. The sunny intervals will be of great benefit to the drying of maize that is at harvesting stage in places like Kitale.

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals in the morning for the first seven days followed by rains over few places thereafter. For the first seven days of the forecast period, Afternoon are expected to experience sunny intervals except on the eighth day when showers and thunderstorms will be experienced over few places.

The rains and showers will benefit the growth of pasture and vegetation for livestock kept in this region.

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga),** mornings are expected to experience occasional rains over few places except the third and fourth days. Afternoons are expected to experience showers over few places except the fourth day increasing to several places from the fifth day for the rest of the forecast period.

The rains and showers will be beneficial to the development of maize crops that are in the flowering stage in Nyahururu.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** Mornings are expected to experience rains over few places, increasing to several places from the seventh day thereafter except the fifth day which will experience sunny intervals. Afternoons are expected to experience sunny intervals for the first six days, followed by showers over several places thereafter.

The rains and showers will be beneficial to the growth of pasture and vegetation for the animals kept in these places.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** Mornings are expected to experience rains over a few places for the first two days, breaking into sunny intervals on the third to fifth day followed by rains over few places thereafter. Afternoons are expected to experience showers over few

places for the first two days of the forecast period, followed by sunny intervals thereafter.

The rains and showers will benefit the growth of pasture and vegetation for livestock in these areas.

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** Mornings are expected to experience showers over few places for the first four days of the forecast period, increasing to several places thereafter. Afternoons are expected to experience showers for the first two days of the forecast period, breaking into sunny intervals for the next four days, followed by showers over several places thereafter.

The morning showers will be of great benefit to the growth of mangoes, which are at flowering stage in Msabaha, while the afternoon sun will hasten the drying of maize, which is at harvesting stage in places like Mtwapa.

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