



KENYA METEOROLOGICAL SERVICE DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 10, 1st – 10th APRIL 2016

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was a drastic increase in rainfall activities countrywide both in intensity and spatial distribution. North-Eastern region received the highest rainfall amount of 217.2mm at Moyale station compared to 79.0mm reported at Kabete station in Nairobi region in the previous dekad. The second highest rainfall of 193.4mm was recorded at Kabete station in Nairobi region. Western region received the highest rainfall amount of 159.4mm at Kakamega station. Eldoret station in the Rift Valley region reported the highest rainfall amount of 152.9mm. Nyanza region recorded the highest rainfall amount of 129.7mm at Kisii station. Thika station in the Central region received the highest rainfall amount of 99.8mm. Eastern region reported the highest rainfall amount of 61.8mm at Embu station, while Coastal region recorded the highest rainfall amount of 49.4mm at Mombasa station.

Maximum temperatures decreased drastically while Minimum temperatures were still on an increasing trend. The highest Maximum temperature of 39.0°C was reported at Mandera Station in North Eastern region compared to 39.9°C in the same station in the previous dekad. Nyahururu station continued to record the lowest Minimum temperature of 10.1°C compared to 8.8°C reported at the same station 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 10, 1st – 10th APRIL, 2016

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 159.4 mm. The mean air temperature was 22.1°C. There was no report on Total pan Evaporation and sunshine hours.

Most farmers are still planting but some crops are at emergence stage.

2.1.2 Kisii

The station reported total rainfall amount of 129.7mm. The mean air temperature and total Pan Evaporation recorded were 21.6°C and 31.7mm respectively. There was no report on Sunshine hours.

Both maize and beans were at emergence stage and in fair state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded total rainfall amount of 105.7mm. There was no report on Total Pan Evaporation, the mean air temperature and Sunshine duration.

No phenological report.

2.2.2 Eldoret - Kapsoya

The station received 152.9mm of rainfall. The mean air temperature was 19.2°C. There was no report on Total Pan Evaporation and sunshine hours.

Maize and beans are both at emergence stage and in fair state.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

Total rainfall amount recorded was 47.6mm. The average air temperature reported was 20.4°C. There was no report on Total Pan Evaporation and sunshine parameters.

Farmers are still preparing their farms.

2.3.2 Kabete

The station reported rainfall amount of 193.4mm. The total Pan Evaporation recorded was 75.5mm. There was no report on Mean air Temperature total Pan Evaporation and Sunshine parameters.

Planting is underway.

2.3.3 Thika

The station recorded 99.8mm of rainfall. The average air temperature and Total Pan Evaporation recorded were 22.2°C and 39.7mm respectively. There was no report on Sunshine duration.

Both maize and beans crops are at emergence stage and in fair state.

2.3.4 Nyahururu

The station recorded total rainfall amount of 41.6mm. The mean air temperature and Total Pan Evaporation reported were 17.3°C and 51.1mm respectively. There was no report on Sunshine hours.

Planting is underway in most farms.

2.3.5 Dagoretti

The station received 113.9mm. No report on mean air temperature, Total Pan Evaporation and Sunshine parameters.

No Phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station reported 61.8mm of rainfall. The total Pan Evaporation reported was 46.3.0mm. There was no report on Mean air temperature and sunshine parameters.

Most farmers have finished planting.

2.4.2 Meru

The station recorded total rainfall amount of 25.3mm. The Average air Temperature and Total Pan Evaporation reported were 21.0°C and 45.8mm respectively. There was no report on Sunshine parameter.

Most farmers have finished planting.

2.4.3 Katumani (Machakos)

The station reported total rainfall amount of 44.1mm. The Mean air Temperature and Pan Evaporation reported were 21.2°C and 46.1mm respectively. There was no report on Sunshine hours.

No Phenological report.

2.5 COASTAL REGION

2.5.1 Msabaha

The station recorded 12.1mm of rainfall. The average air temperature and total Pan Evaporation recorded were 30.1°C and 62.6mm respectively. There was no report on sunshine duration.

Farmers have started planting maize crop. Mangoes were at 100% fruit setting stage and in good state.

2.5.2 Mtwapa

The station received total rainfall amount of 49.0mm. The Mean air temperature reported was 29.2°C. There was no report on Total Pan Evaporation and sunshine parameters.

Mangoes were at flowering stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

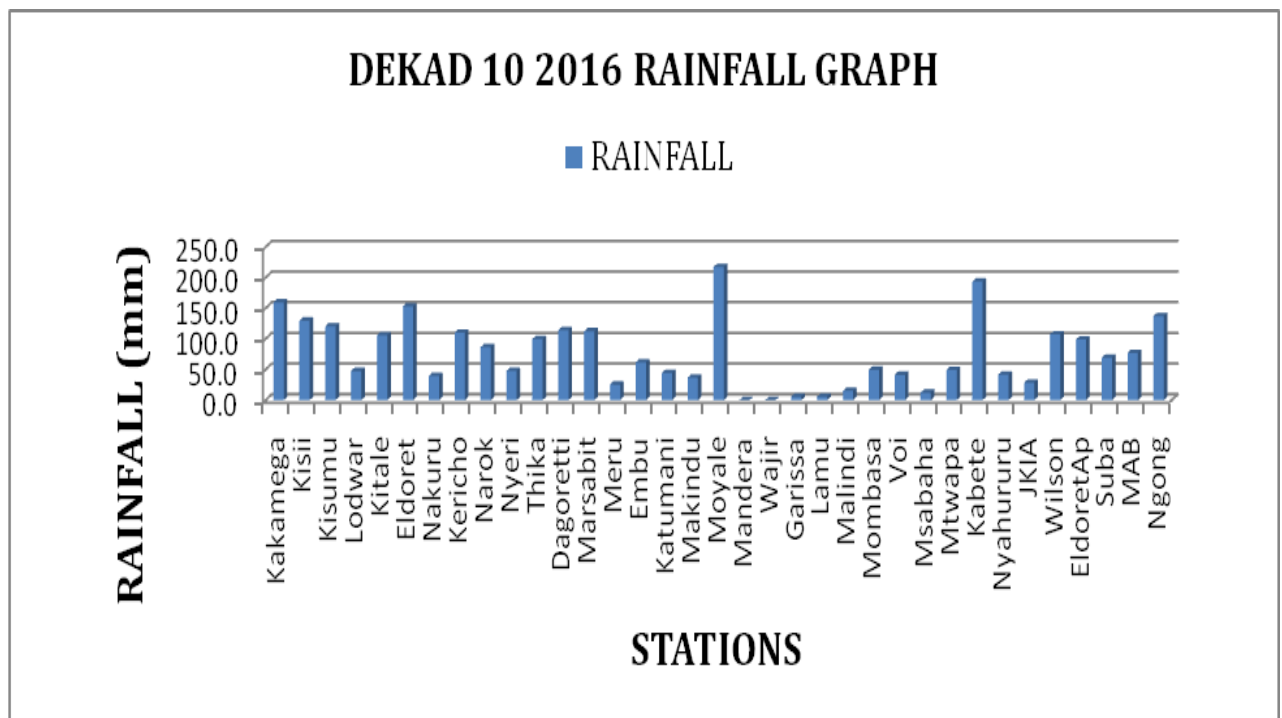


Figure 3.1: Dekadal rainfall totals for dekad 10, 2016

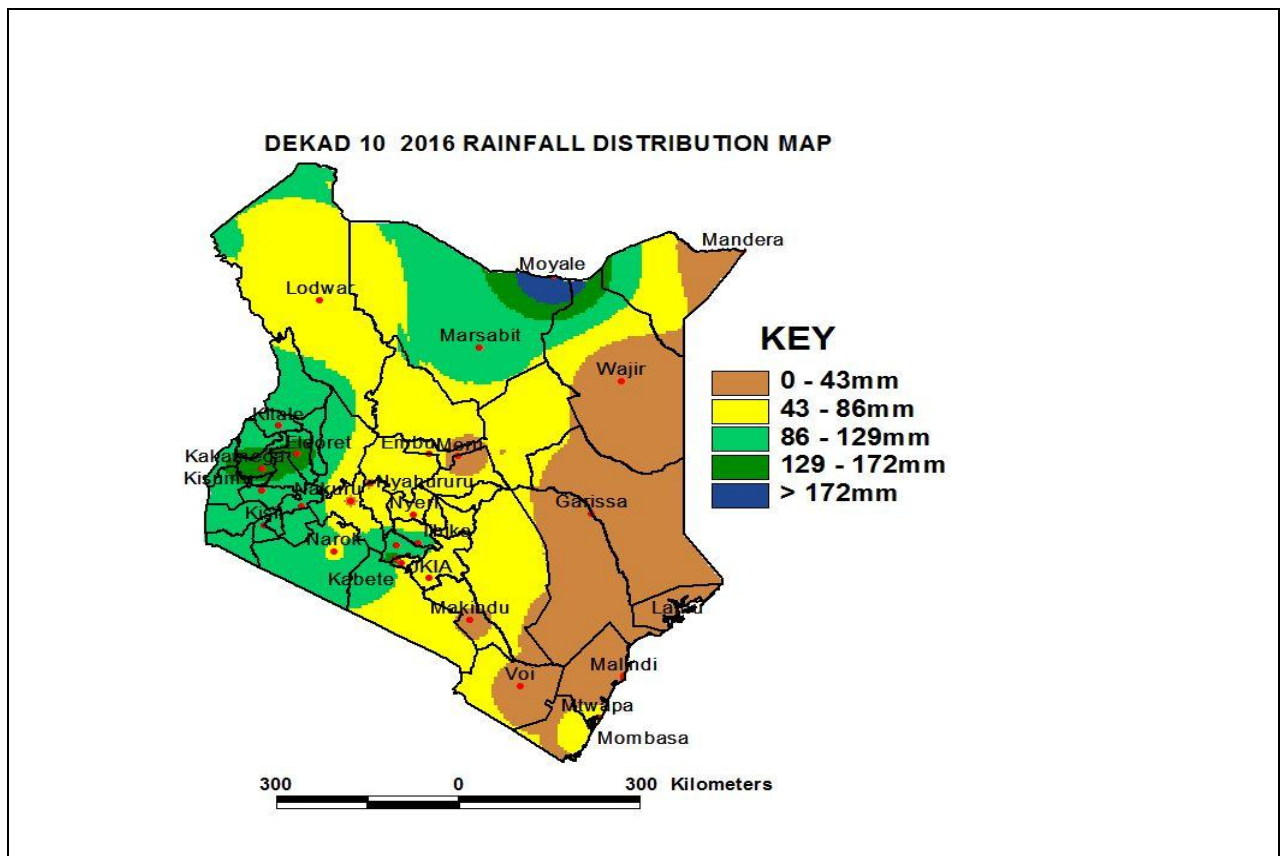


Figure 3.2: Dekadal rainfall distribution for dekad 10, 2016

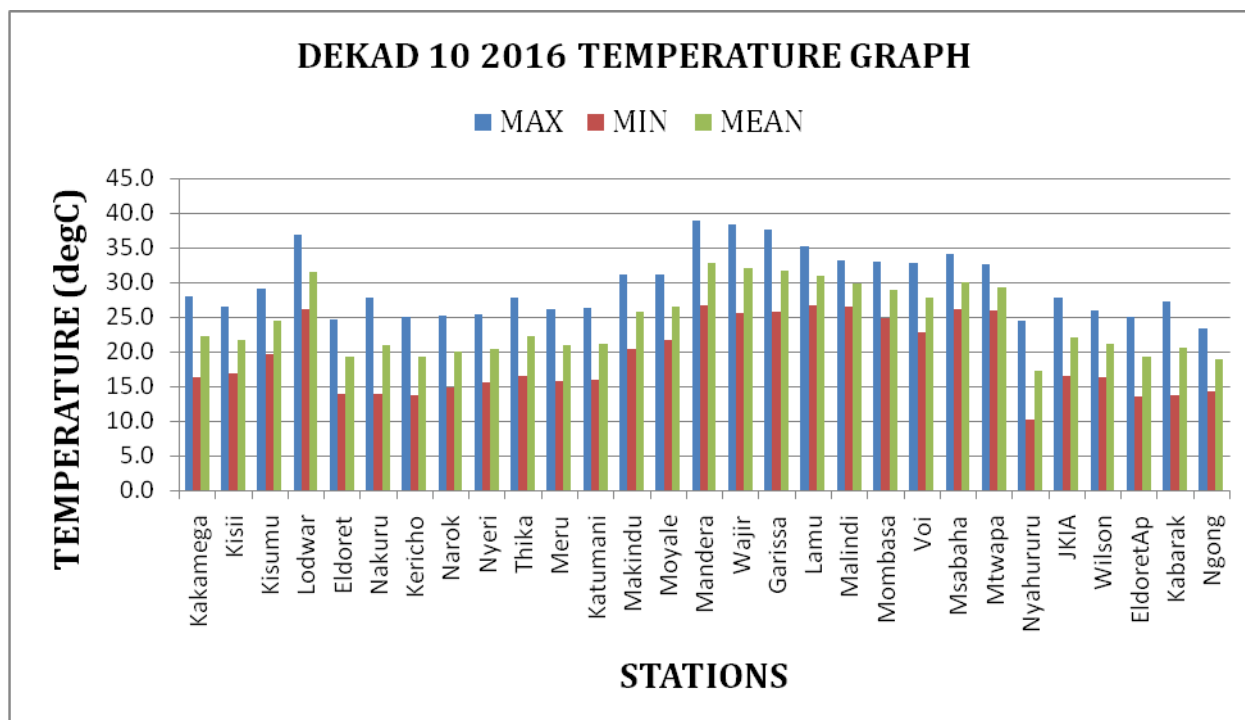


Figure3.3: Maximum, Minimum and Average temperature for dekad 10, 2016

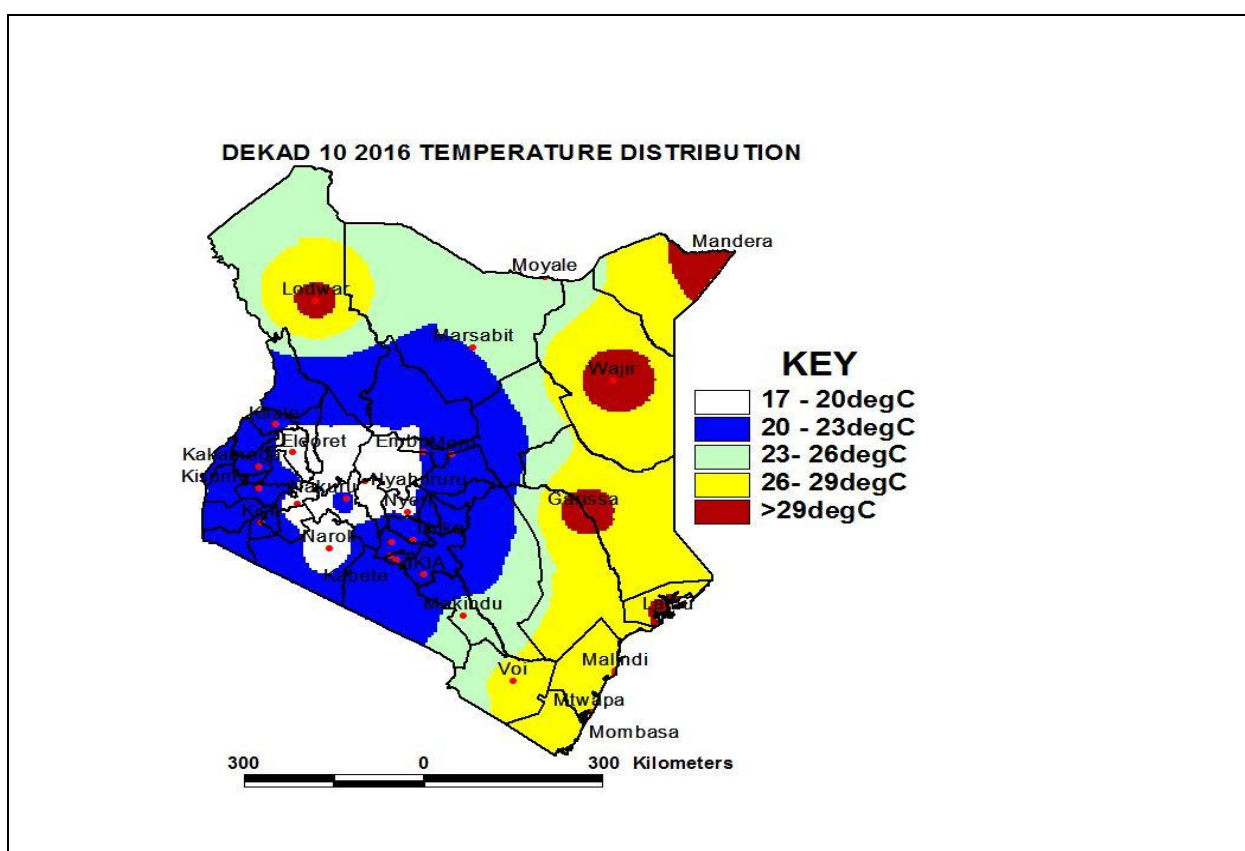


Figure 3.4: Mean temperature distribution for dekad 10, 2016

3. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11th - 20th April, 2016.

- ❖ **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),** Mornings are expected to experience rains over few places, for the first six days of the forecast period breaking into sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over several for the first two days of the forecast period reducing to few places thereafter.

The Showers will be beneficial to the growth of the crops that are at emergence stage in places like Kisii.

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** Mornings are expected to experience mainly sunny intervals throughout the forecast period. Afternoons/Evenings are expected to experience showers and thunderstorms over few places throughout the forecast period.

The showers will be of advantage to 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 be cloudy with light rains breaking into sunny intervals throughout the forecast period. Afternoons/Night is expected to experience showers over few places throughout the forecast period.

The rains and showers will be of great benefit to the crops, which are in their germinating stage.

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** Mornings are expected to experience mainly rains over few places throughout the forecast period. Afternoons/Evenings are expected to experience sunny intervals throughout the forecast period.

The expected rains will continue replenishing the pasture and vegetation for the animals kept in these areas.

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** Mornings are expected to experience cloudy mornings with light rains over few places on the first three days of the forecast period, followed by cloudy mornings breaking into sunny intervals thereafter. Afternoons/Night are expected to experience showers over few places for the first five days of the forecast period, followed by sunny intervals thereafter.

The Showers will continue to replenish the vegetation and pasture for the animals kept 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 five days, followed by sunny intervals thereafter. Afternoons/Evenings are expected to experience mainly sunny intervals except the second and third days of the forecast period where showers over few places will occur.

The showers will benefit the mangoes, which are at 100% fruit setting and flowering stages in Msabaha and Mtwapa respectively.

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