



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN**

WEATHER AND CROP REVIEW FOR DEKAD 12; 21st – 30th APRIL 2016

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

There was drastic increase in rainfall activities countrywide, both in intensity and spatial distribution. The North-Eastern region reported the highest rainfall amount of 294.9mm at Marsabit station compared to 165.0mm received at Suba station in Nyanza region in the previous dekad's highest amount. The second highest rainfall amount of 255.0mm was reported at Moi Airbase station in Nairobi region. Eastern region recorded the highest rainfall amount of 215.4mm at Embu station. Kisii station in the Nyanza region received the highest rainfall amount of 179.6mm. Coast region reported the highest rainfall amount of 157.0mm at Mtwapa station. Thika station in the Central region received the highest rainfall amount of 143.8mm. Rift Valley region recorded the highest rainfall amount of 113.8mm at Eldoret station, while Western region reported the highest rainfall amount of 92.0mm at Kitale station.

Maximum temperatures decreased drastically while Minimum temperatures were still on an increasing trend. The highest Maximum temperature of 36.5.0°C was recorded at Garissa Station in North Eastern region compared to 37.6°C reported in the same station the previous dekad. Nyahururu station continued to record the lowest Minimum temperature of 10.9°C compared to 8.7°C reported at the same station in the previous dekad.

2. CROP AND WEATHER REVIEW FOR DEKAD 12, 21st – 30th APRIL, 2016

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 43.9mm. The mean air temperature and Total pan Evaporation were 22.9°C and 41.4mm respectively. There was no report on and sunshine hours.

Beans and Maize are in flowering and emergence stages respectively and in good state.

2.1.2 Kisii

The station reported total rainfall amount of 179.6mm. The mean air temperature and total Pan Evaporation recorded were 21.2°C and 24.1mm 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 92.0mm. Total Pan Evaporation was 33.8mm There was no report on the mean air temperature, and Sunshine duration.

Maize and Beans are in emergence state and in good state.

2.2.2 Eldoret - Kapsoya

The station received 113.8mm of rainfall. The mean air temperature and Total Pan Evaporation were 19.0°C and 53.4mm respectively. There was no report on 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 71.9mm. The average air temperature reported was 19.8°C. There was no report on Total Pan Evaporation and sunshine parameters.

Maize and Beans are in emergence state ad in fair state; although beans have been affected by leaf hoppers.

2.3.2 Kabete

The station reported rainfall amount of 181.2mm. The total Pan Evaporation recorded was 33.0mm. There was no report on Mean air Temperature and Sunshine parameters.

Planting has been completed.

2.3.3 Thika

The station recorded 143.8mm of rainfall. The average air temperature and Total Pan Evaporation recorded were 21.3°C and 38.5mm respectively. There was no report on Sunshine duration.

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

2.3.4 Nyahururu

The station recorded total rainfall amount of 97.9mm The mean air temperature and Total Pan Evaporation reported were 17.0°C and 46.4mm respectively. There was no report on Sunshine hours.

Planting has been completed in most farms.

2.3.5 Dagoretti

The station received 140.4mm of rainfall. Total Pan Evaporation recorded was 31.1mm. No report on mean air temperature and Sunshine parameters.

No Phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station reported 215.4mm of rainfall. The total Pan Evaporation reported was 22.4mm. There was no report on Mean air temperature and sunshine parameters.

Both Maize and Beans are emergence and in fair state.

2.4.2 Meru

The station recorded total rainfall amount of 91.8mm. The Average air Temperature reported was 20.0°C. There was no report on Total Pan Evaporation and Sunshine parameters.

Most farmers have finished planting.

2.4.3 Katumani (Machakos)

The station reported total rainfall amount of 18.6mm. The Mean air Temperature and Total Pan Evaporation reported were 21.1°C and 41.1mm respectively. There was no report on Sunshine hours.

Maize and Beans are at emergence stage and in fair condition.

2.5 COASTAL REGION

2.5.1 Msabaha

The station recorded 62.2mm of rainfall. The average air temperature and Total Pan Evaporation recorded were 28.6°C and 53.8mm respectively. There was no report on sunshine duration.

Maize was in emergence state and in fair state.

2.5.2 Mtwapa

The station received total rainfall amount of 157.0mm. The Mean air temperature and Total Pan Evaporation reported were 28.1°C and 34.9mm respectively. There was no report on sunshine parameters.

Mangoes were at flowering stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

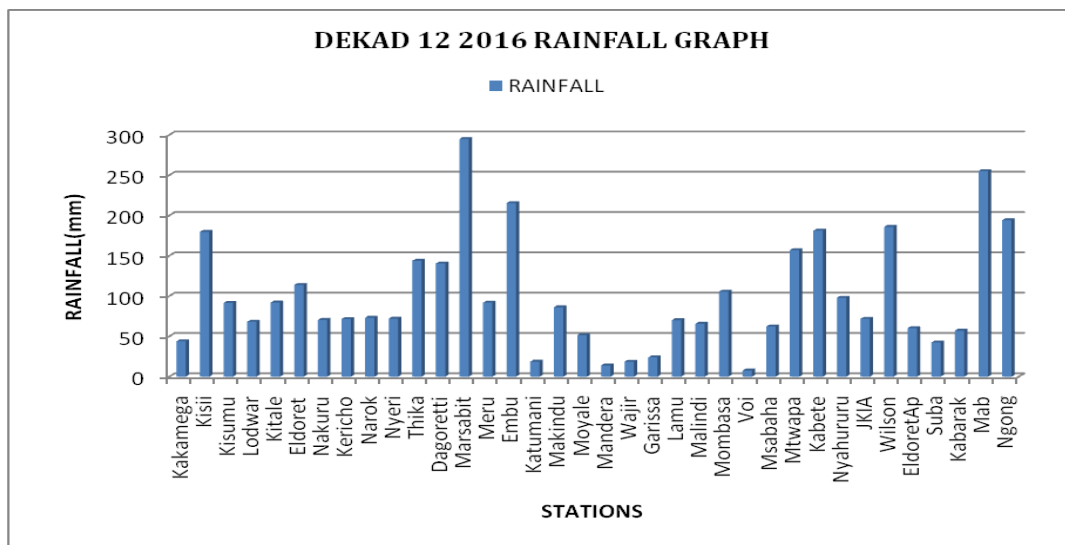


Figure 3.1: Dekadal rainfall totals for dekad 12, 2016

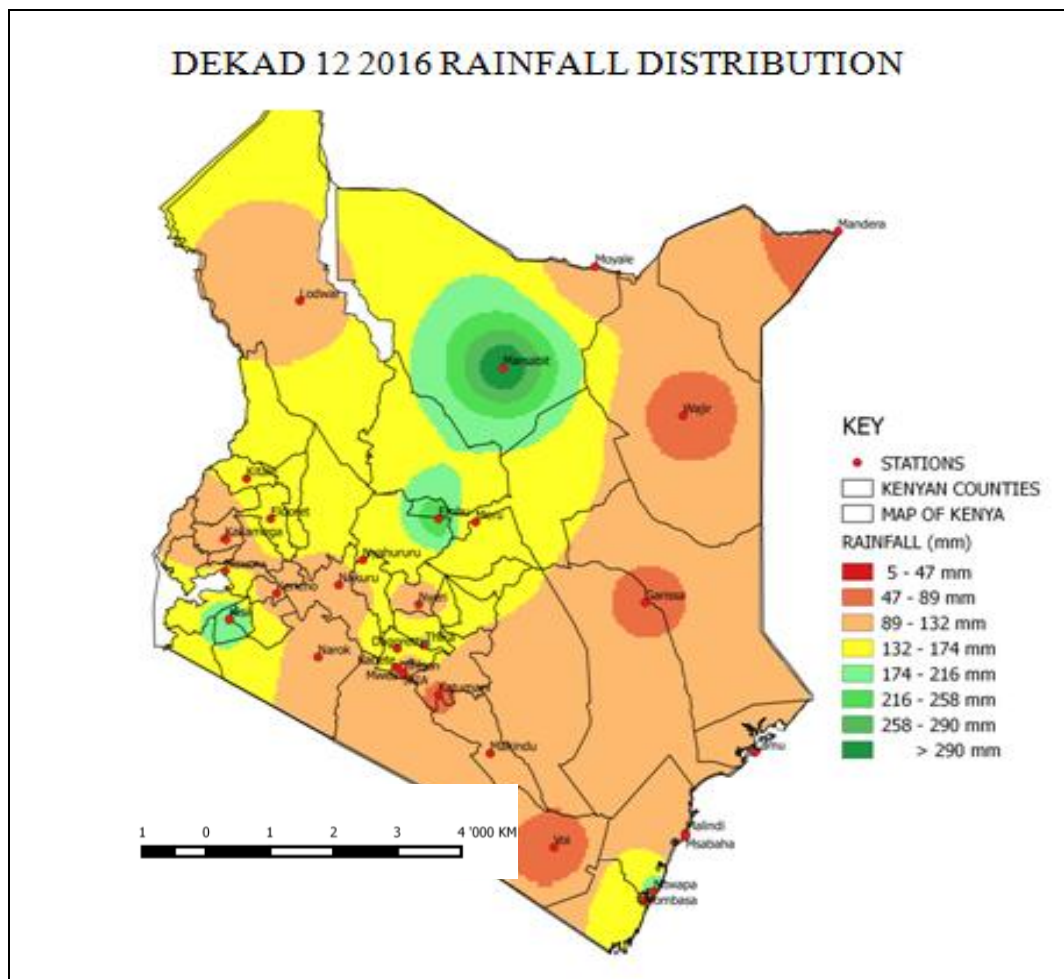


Figure 3.2: Dekadal rainfall distribution for dekad 12, 2016

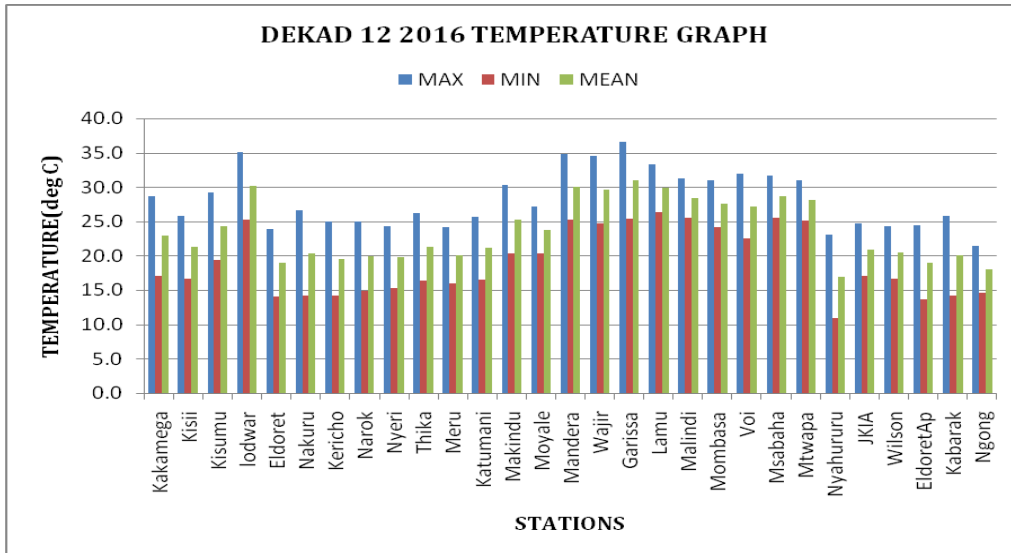


Figure3.3: Maximum, Minimum and Average temperature for dekad 12, 2016

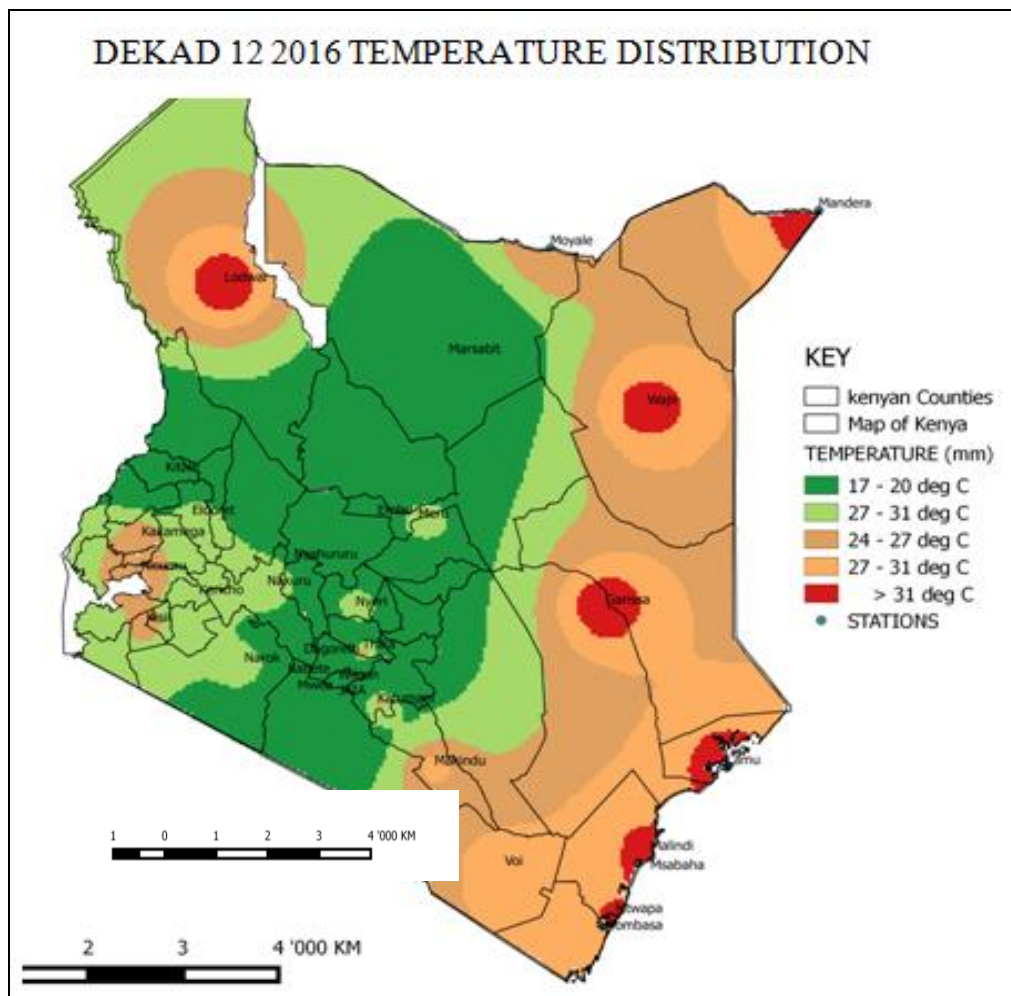


Figure 3.4: Mean temperature distribution for dekad 12, 2016

3. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1st-10th MAY, 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 occasional morning rains over few places, throughout the forecast period. Afternoons/nights are expected to experience showers and thunderstorms over several places throughout the forecast period.

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 showers over few places throughout the forecast period. Afternoons are expected to experience sunny intervals 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)**, are expected to experience cool cloudy mornings with occasional rains 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 mainly 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 breaking into sunny intervals except on the fourth fifth and ninth days when light rains are expected over few places. Afternoons/Night is expected to experience occasional showers over few places especially over the high ground areas.

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 throughout the forecast period. Afternoons/Evenings are expected to experience mainly sunny intervals throughout the forecast period.

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

For feedback or further guidance, Contact:

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