



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 6, 21ST – 28TH FEBRUARY, 2019.**

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

There was an increase in rainfall activities in intensity and a decrease in spatial distribution during the dekad. Day-time (maximum) temperatures decreased drastically while Minimum temperatures was still on an increasing trend in some stations. The highest rainfall of 94.7 mm was received at Kisumu station in Nyanza region compared to 26.4mm reported at the same station in the previous dekad. Western, Coastal and Rift Valley regions recorded the highest rainfall amount of rainfall of 82.1, 63.2 and 30.2 mm at Matungu, Voi and Kericho stations respectively. Central, Nairobi and North Eastern regions recorded rainfall amount of 14.5, 6.4 and 5.4 mm at Nyeri, Jomo Kenyatta International Airport and Lodwar Stations respectively.

The highest Maximum temperature of 38.8 °C was recorded at Mandera station in North - Eastern region.

Nyahururu station in Central region recorded an increase in Minimum temperature of 7.6°C compared to 6.4 °c recorded in the same station during the previous dekad.

For a more comprehensive summary of rainfall and other meteorological parameters, see Figures 3.1 to 3.4 as shown below.

CROP AND WEATHER REVIEW FOR DEKAD 6, 21ST – 28TH FEBRUARY 2019.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station reported total rainfall amount of 19.8 mm. Mean air temperature recorded was 22.7 °C. Total Pan Evaporation recorded was 57.6mm.

Land preparation on going and some farmers have started planted.

2.1.2 Kisii

The station recorded total rainfall amount of 20.6 mm. The mean air temperature recorded was 21.4°C. There was no report on total Pan Evaporation.

Farmers have started land preparation.

2.2 RIFT VALLEY REGION.

2.2.1 Kitale.

The station recorded total rainfall amount of 13.8 mm. The mean air temperature was 20.8°C. There was no report on total Evaporation Pan.

Land preparation on going.

2.2.2 Eldoret – Kapsoya.

The station received total rainfall amount of 15.1 mm. Mean air temperature recorded was 19.4°C. Total Pan Evaporation recorded was 63.7mm.

Land preparation on going.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

2.3.1 Nyeri

The station received total rainfall amount of 14.5 mm. There was no report on Mean air temperature and total Evaporation Pan.

Maize crop has failed and the farmers have started land preparation.

2.3.2 Kabete

The station recorded total rainfall amount of 0.3 mm. There was no report on Mean air temperature and total Evaporation Pan

Farmers have started land preparation.

2.3.3 Nyahururu

The station received 2.6 mm of rain. The mean air temperature recorded and total Pan Evaporation were 16.2°C and 48.0mm respectively.

Farmers have started land preparation.

2.3.4 Dagoretti

The station recorded 2.0 mm of rain. The Mean air temperature was 21.2°C. Total Pan Evaporation recorded was 52.0mm.

There was no Phenological report.

2.3.5 Thika

The station received total rainfall amount of 0.4 mm. Total Pan Evaporation recorded was 53.0mm. There was no report on Mean Air temperature.

Farmers have started land preparation

2.4 EASTERN REGION.

2.4.1 Embu

The station recorded total rainfall amount of 4.0 mm. Total Pan Evaporation recorded was 64.7 mm. There was no report on Mean Air Temperature.

Farmers have started land preparation

2.4.2 Meru

The station received total rainfall amount of 0.03 mm. The Mean air temperature was 20.4 °C and there was no report on Pan Evaporation.

Farmers have started land preparation

2.4.3 Katumani (Machakos)

The station recorded total rainfall amount of 3.0 mm. Mean air temperature was 21.1 °C. There was no report on Pan Evaporation.

Maize crop has reached harvesting stage and some farmers have started harvesting.

2.5 COASTAL REGION.

2.5.1 Msabaha

The station recorded 0.01 mm of rain. Total Pan Evaporation recorded was 34.5mm. There was no report on mean Air Temperature.

Maize crop has reached harvesting stage and some farmers have started harvesting.

2.5.2 Mtwapa

The station received total rainfall amount of 11.2 mm. The mean Air temperature and total Pan Evaporation recorded were 28.9°C and 64.2 mm.

Maize crop has reached harvesting stage and some farmers have started harvesting.

2.5.3 Lamu

The station continued to report dry conditions. The Mean air temperature recorded was 29.6 °C. Total Pan Evaporation recorded was 56.5 mm.

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

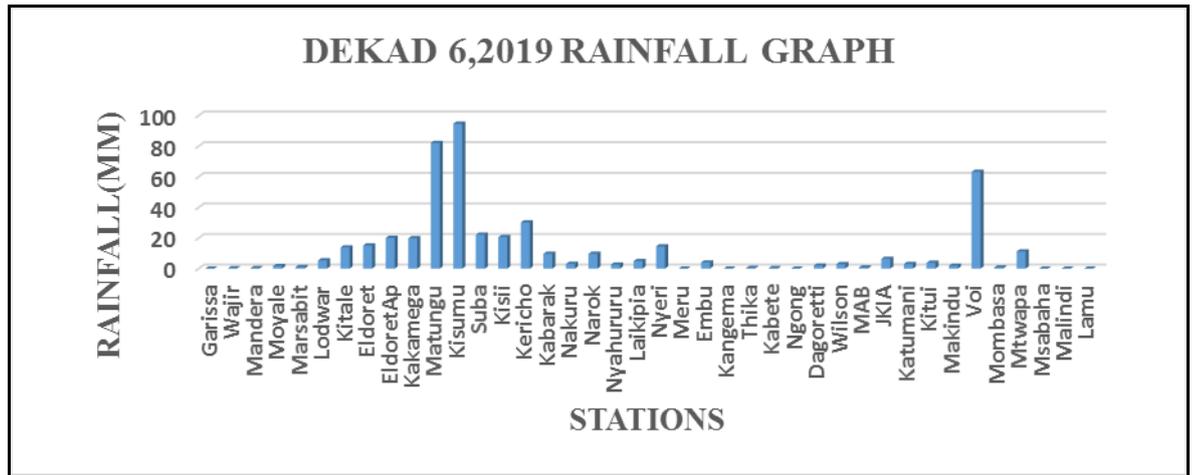


Figure 3.1: Dekadal rainfall totals for dekad 6, 2019.

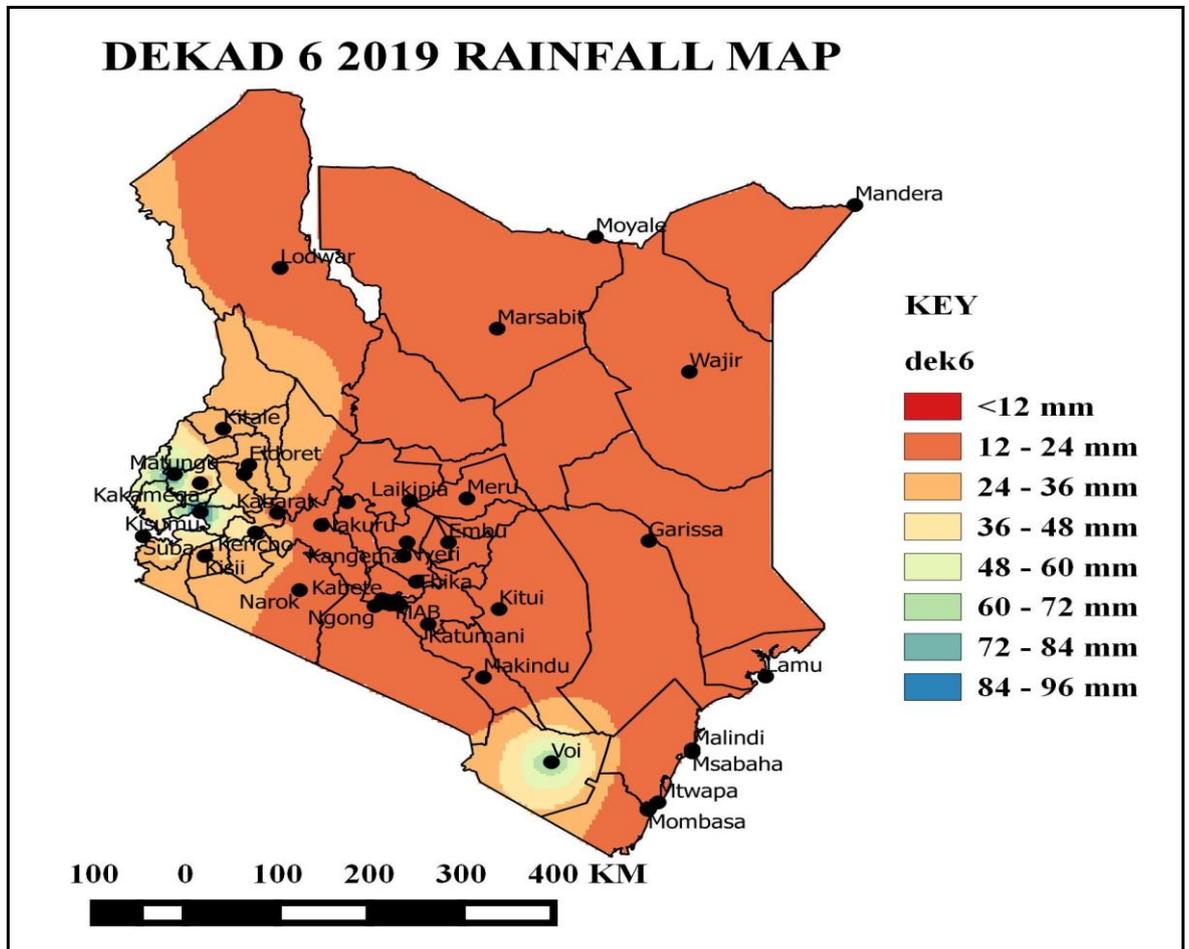


Figure 3.2: Dekadal rainfall distribution for dekad 6, 2019.

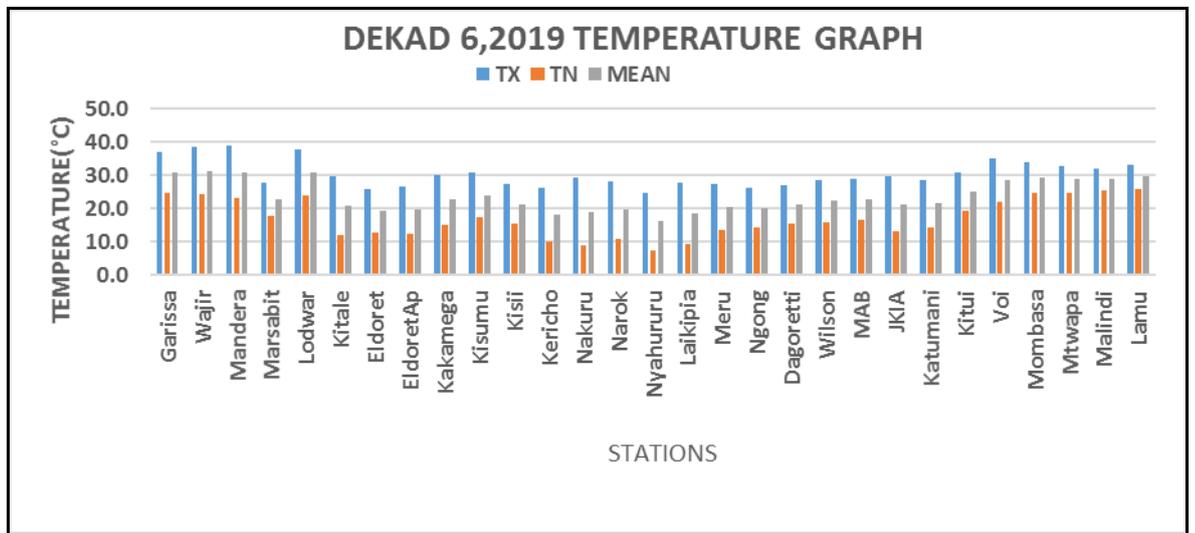


Figure 3.3: Maximum, Minimum and Average temperature for dekad 6, 2019.

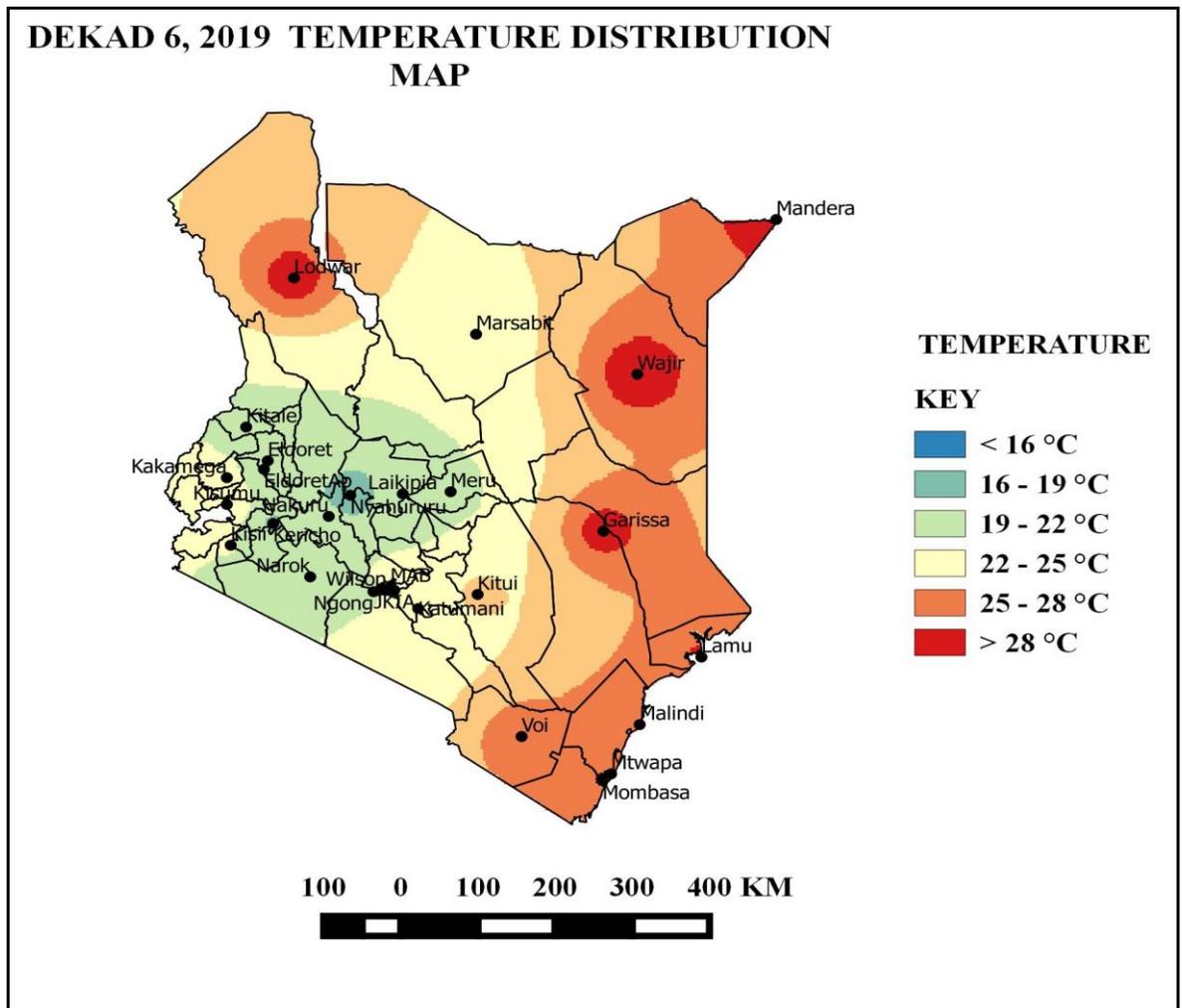


Figure 3.4: Mean temperature distribution for dekad 6, 2019.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST– 10TH, MARCH 2019

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 mainly sunny intervals except on 5th, 6th and 8th days of the forecast period where there is a possibility of rains over few places. Afternoons are expected to experience showers over few places for the first 4 days of the forecast period, increasing to several places thereafter.

The showers will have a positive impact on the crops that are being planted in places like Kakamega.

The North-western counties (Turkana, West Pokot and Samburu), Mornings are expected to experience sunny intervals for the first 4 days, followed by possibility of rains over few places thereafter. Afternoons will experience sunny intervals for the first 3 days of the forecast period, followed by possibility of showers and thunderstorms over few places, then sunny intervals thereafter.

The likelihood of rains and showers will have a positive impact on the pasture and vegetation for the animals 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 mainly sunny intervals throughout the forecast period, except on 5th and 6th days where there is a possibility of rains over few places. Afternoons are expected to experience showers over few places except on the 2nd day of the forecast where there will be sunny intervals.

The Showers will benefit maize crop that are in maturity stage in places like Kabete.

North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience sunny intervals the entire day throughout the forecast period.

The dry conditions will continue to have a negative impact on the pasture in the region.

South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui), Mornings are expected to experience sunny intervals for the first 2 days of the forecast period, followed by possibility of rains over few places for 4 days, then sunny intervals thereafter. Afternoons are expected to experience sunny intervals for the first 2 days, followed by possibility of showers over few places thereafter.

The expected rains and showers will have a positive impact on the pasture and crops that are at flowering stage in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.)

Are expected to experience sunny intervals the entire day throughout the forecast period, except on the 5th and 7th days where there is a possibility of showers over few places in the morning hours.

The sunny intervals will enhance the drying and harvesting of the crops that are in harvesting stage in places like Msabaha and Mtwapa.

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