



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 4, 1ST– 10TH FEBRUARY, 2019.**

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Dry weather conditions continued to be experienced in the entire country during this dekad. Day-time (maximum) temperatures were still on an increasing trend, while Minimum temperatures decreased drastically. Coastal region reported insignificant rainfall of 0.9, 0.8 and 0.1 mm at Mombasa, Voi and Msabaha stations respectively. Stations in the rest of the regions namely: Rift Valley, Western, Nyanza, Central, Eastern, North-Eastern and Nairobi reported dry conditions.

Maximum temperatures continued to increase, while Minimum temperatures increased drastically in most stations. The highest Maximum temperature of 38.1 °C was recorded at Lodwar station in North - Eastern region compared to 37.8 °C reported at the same station in the previous dekad.

Nyahururu station in Central region recorded the lowest Minimum temperature of 7.1°C compared to 5.9 °C recorded in 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.

CROP AND WEATHER REVIEW FOR DEKAD 4, 1ST – 10TH FEBRUARY 2019.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded total rainfall amount of 0.01 mm. Mean air temperature recorded was 23.9°C. There were no report on total Pan Evaporation.

There was no phenological report.

2.1.2 Kisii

The station reported total rainfall amount of 0.03 mm. The mean air temperature recorded was 23.7°C. There was no report on total Pan Evaporation.

Maize was post flowering stage and in poor state as it has been affected by Fall Army Worms; hence below normal yield is expected.

2.2 RIFT VALLEY REGION.

2.2.1 Kitale.

The station reported dry conditions. The mean air temperature was 21.9°C. There was no report on total Evaporation Pan.

No phenological Report

2.2.2 Eldoret – Kapsoya.

The station reported dry conditions. Mean air temperature recorded was 20.0°C. There was no report on total Pan Evaporation.

No phenological Report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

2.3.1 Nyeri

The station reported dry conditions. There was no report on Mean air temperature. Total Pan Evaporation recorded was 64.5mm.

Maize was in post flowering stage and in failure state due to lack of rain. Beans have been harvested in most farms.

2.3.2 Kabete

The station reported dry conditions. Total Pan Evaporation recorded was 70.5mm. There was no report on Mean air temperature.

Maize and Beans were at post flowering and harvest stages respectively; both crops have been affected by too much sun during the dekad.

2.3.3 Nyahururu

The station received 0.01mm of rain. The mean air temperature recorded was 16.0°C. Total Pan Evaporation recorded was 60.0mm.

Maize was still in maturity stage and in fair state; hence normal yield is expected.

2.3.4 Dagoretti

The station reported dry conditions. The Mean air temperature was 20.5°C. There was no report on total Pan Evaporation.

There was no Phenological report.

2.3.5 Thika

The station continued to report dry conditions. Total Pan Evaporation recorded was 68.0mm. There was no report on Mean Air temperature.

Maize and Beans were still at flowering and maturity stages respectively; both crops were in poor state due to lack of rain.

2.4 EASTERN REGION.

2.4.1 Embu

The station reported dry conditions. There was no report on Mean Air Temperature and total Pan Evaporation parameters.

Maize was still at flowering stage, while Beans have been harvested. Maize has been negatively affected by too sunshine during the dekad, hence below normal yield is expected.

2.4.2 Meru

The station continued to report dry conditions. The Mean air temperature was 19.0 °C and there was no report on Pan Evaporation.

There was no phenological report.

2.4.3 Katumani (Machakos)

The station reported dry conditions. Mean air temperature was 20.4 °C. Total Pan Evaporation recorded was 69.0mm.

Maize and Bean crops were at flowering and harvesting stages respectively; both crops were in fair state, though they have been affected by too much sun during the Dekad.

2.5 COASTAL REGION.

2.5.1 Msabaha

The station recorded 0.1 mm of rain. Total Pan Evaporation recorded was 93.5mm. There was no report on mean Air Temperature.

Maize were still at flowering stage and still in fair state, though it has been affected by too much sunshine during the Dekad. Beans harvesting is ongoing.

2.5.2 Mtwapa

The station continued to report dry conditions. The mean Air temperature recorded was 27.9°C. Total Pan Evaporation recorded was 49.1mm.

*Maize were still at flowering stage and still in fair state, though it has been affected by too much sunshine during the Dekad. Beans harvesting is ongoing.
Mangoes were in dormant stage.*

2.5.3 Lamu

The station reported dry conditions. The Mean air temperature recorded was 28.9 °C. There was no report on total Pan Evaporation.

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

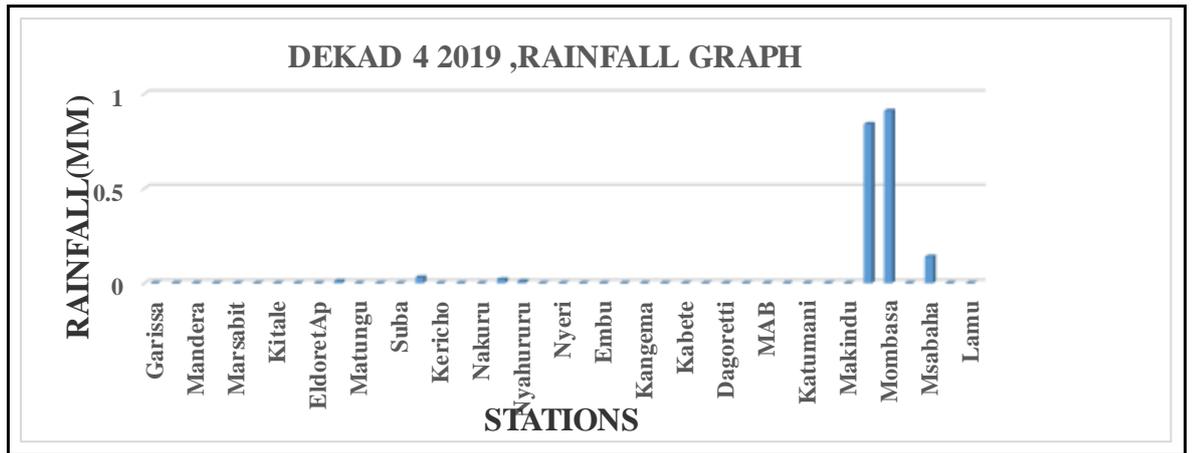


Figure 3.1: Dekadal rainfall totals for dekad 4, 2019.

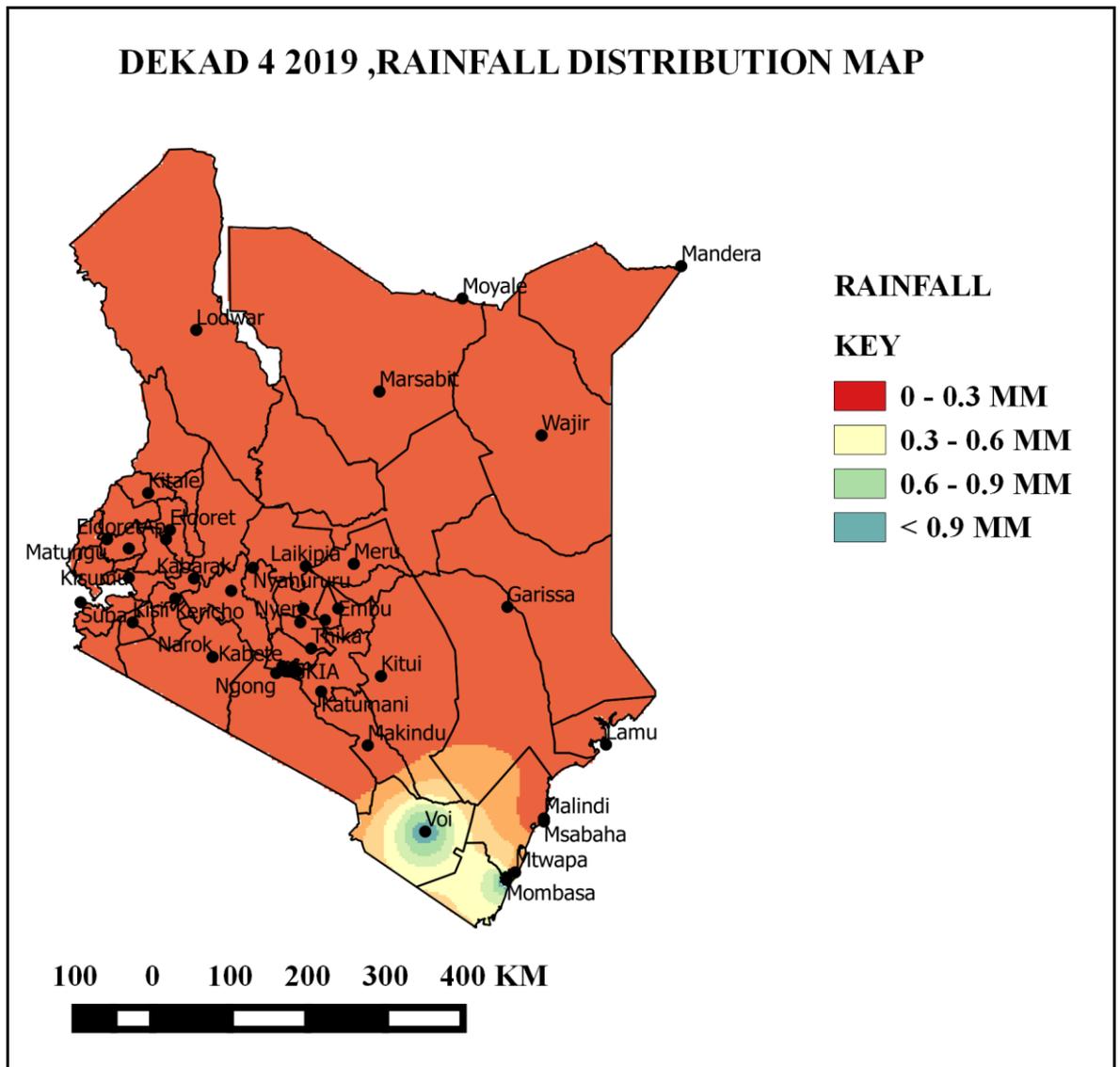


Figure 3.2: Dekadal rainfall distribution for dekad 4, 2019.

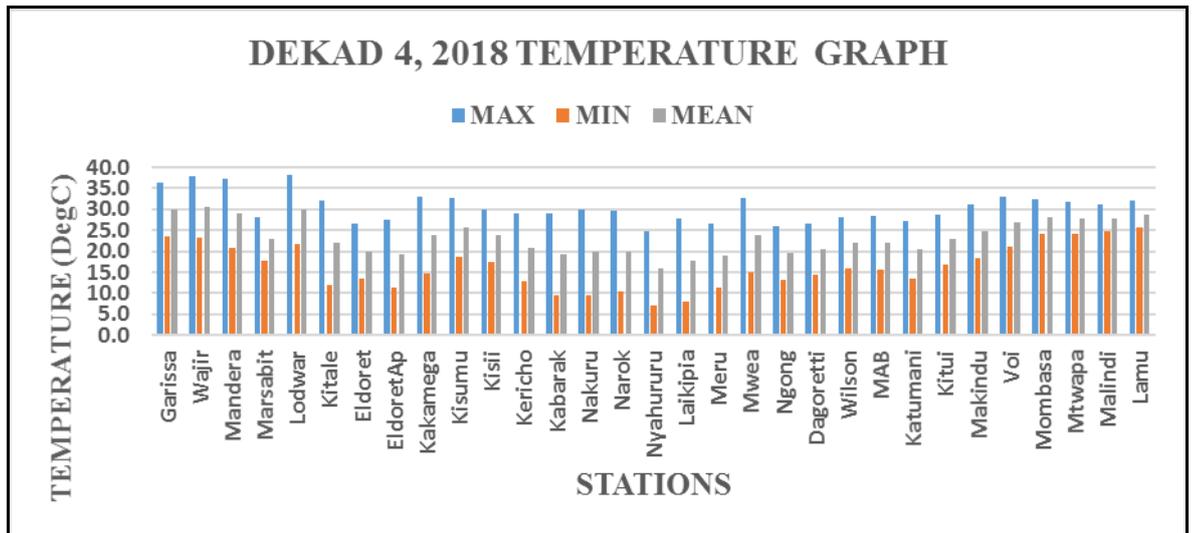


Figure 3.3: Maximum, Minimum and Average temperature for dekad 4, 2019.

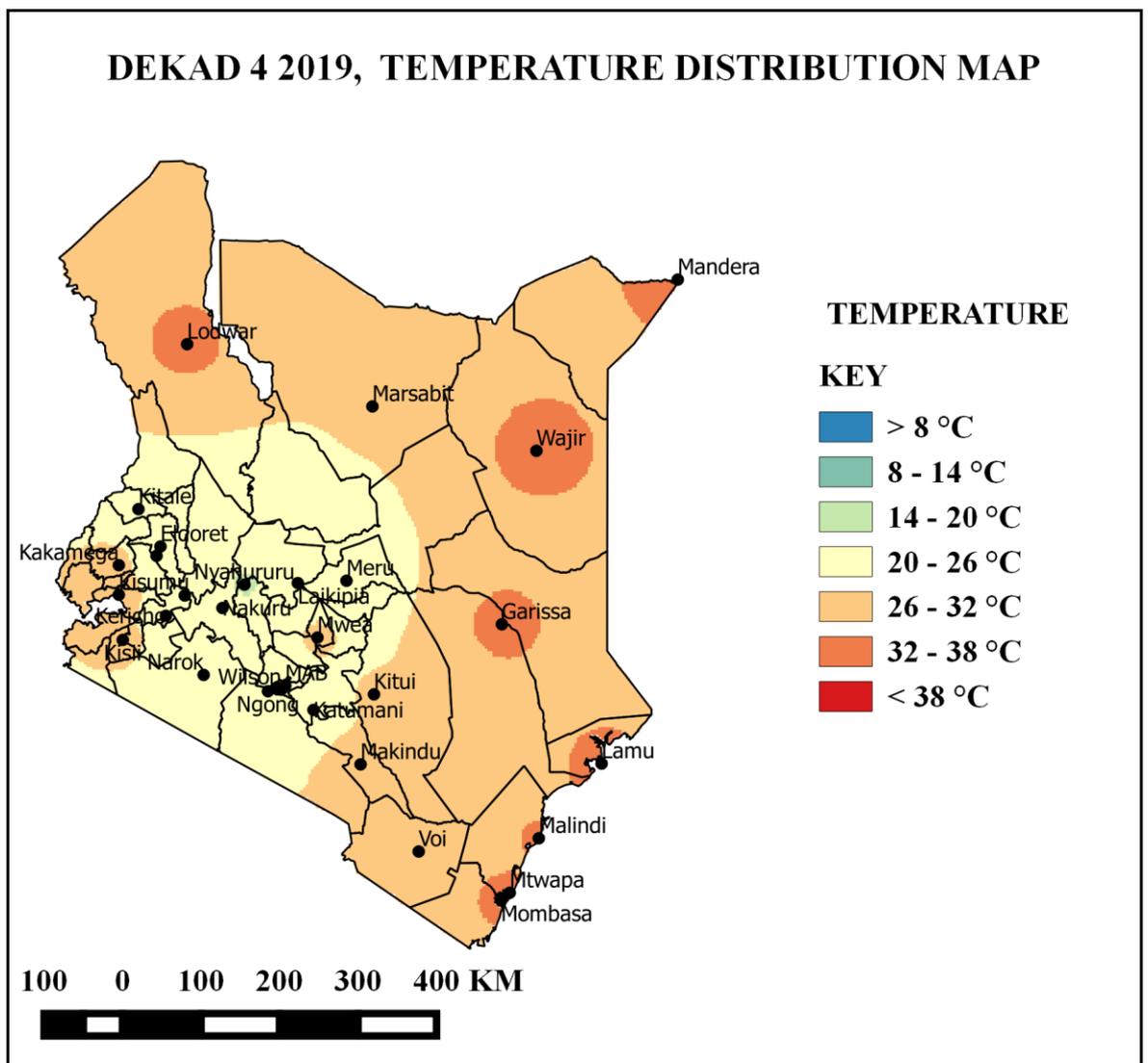


Figure 3.4: Mean temperature distribution for dekad 4, 2019.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11TH– 20TH, FEBRUARY 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), are expected to experience sunny intervals the entire day throughout the forecast period, except on 14th to 16th day where there is a possibility of showers and thunderstorms over few places in the afternoon.

The showers will have a positive impact on the crops that are at post flowering stage in places like Kisii.

The North-western counties (Turkana, West Pokot and Samburu), are expected to experience sunny conditions the entire day throughout the forecast period.

The continued sunny conditions has a negative 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), are expected to experience sunny intervals the entire day throughout the forecast period, except on 14th to 16th day where there is a possibility of showers over few places.

The Showers will benefit maize crop that are in flowering stage in places like Kabete, Thika and Embu

North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience sunny intervals the entire day throughout the forecast period, except on 14th to 16th day where there is a possibility of showers over few places in the morning hours.

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, are expected to experience sunny conditions the entire day of the forecast period, except on the 15th and 16th day where there is a possibility of showers over few places.

The dry conditions will continue to have a negative 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 13th, 15th and 16th days where there is a possibility of showers over few places in the morning hours.

The sunny intervals will have a negative impact on the crops that are in flowering and maturity stages in places like Msabaha and Mtwapa.

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