



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 5, 11TH – 20TH FEBRUARY, 2019.

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

There was a drastic increase in rainfall activities both in intensity and spatial distribution. Day-time (maximum) temperatures decreased while Minimum temperatures increased in some stations. The highest rainfall of 26.4 mm was received at Kisumu station in Nyanza region compared to 0.9 mm reported at Mombasa station at Coastal region. Western, Rift valley and Eastern regions recorded significant amount of rainfall of 19.0, 18.8 and 17.6 mm at Kakamega, Kericho and Embu stations respectively. Central, North Eastern and Nairobi regions received some rainfall amount of 11.8, 5.3 and 5.1 mm at Kangema, Moyale and Wilson Airport Stations respectively. Stations in Coastal region reported dry conditions.

Maximum temperature decreased while minimum temperature increased. The highest Maximum temperature of 38.5 °C was recorded at Mandera station in North - Eastern region compared to 38.1 °C reported at Lodwar station in the same region in the previous dekad.

Nyahururu station in Central region recorded the lowest Minimum temperature of 6.4°C.

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 5, 1ST – 10TH FEBRUARY 2019.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received total rainfall amount of 19.0 mm. Mean air temperature recorded was 23.8°C. There were no report on total Pan Evaporation.

There was no phenological report.

2.1.2 Kisii

The station recorded total rainfall amount of 5.3 mm. The mean air temperature recorded was 22.7°C. The total Pan Evaporation recorded was 39.0 mm.

Maize was at maturity 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 recorded total rainfall amount of 14.9 mm. The mean air temperature was 21.8°C. The total Pan Evaporation recorded was 46.5mm.

No phenological Report

2.2.2 Eldoret – Kapsoya.

The station recorded dry conditions. Mean air temperature recorded was 19.4°C. The total Pan Evaporation recorded was 80.5mm

No phenological Report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

2.3.1 Nyeri

The station reported total rainfall amount of 2.5 mm. There was no report on Mean air temperature and total Pan Evaporation.

Maize was still at post flowering stage and in poor state as it has been affected by too much sun and maize stock borer; hence below normal yield is expected. Beans harvesting is complete.

2.3.2 Kabete

The station reported total rainfall amount of 3.2 mm. Total Pan Evaporation recorded was 44.4mm. There was no report on Mean air temperature.

Maize was at post flowering and harvesting of Beans is complete.

2.3.3 Nyahururu

The station received total rainfall amount of 2.5mm. The mean air temperature recorded was 15.7°C. There were no report on total Pan Evaporation.

Harvesting of maize has started while some farmers have started land preparation.

2.3.4 Dagoretti

The station reported dry conditions. The Mean air temperature was 20.8°C. The total Pan Evaporation recorded was 54.7mm

There was no Phenological report.

2.3.5 Thika

The station continued to report dry conditions. Total Pan Evaporation recorded was 59.5 mm. There was no report on Mean Air temperature.

Maize and Beans were at post flowering and harvesting stages respectively; Maize crop in some areas is wilting due to too much sun.

2.4 EASTERN REGION.

2.4.1 Embu

The station reported total rainfall amount of 17.6 mm. There was no report on Mean Air Temperature and total Pan Evaporation recorded was 58.6 mm.

Maize was at post flowering stage. Maize has been negatively affected by too much sunshine during the dekad, hence below normal yield is expected.

2.4.2 Meru

The station recorded total rainfall amount of 0.6mm. The Mean air temperature was 20.1 °C. Total Pan Evaporation recorded was 63.2mm.

There was no phenological report.

2.4.3 Katumani (Machakos)

The station reported dry conditions. Mean air temperature was 20.3 °C. There were no report on total Pan Evaporation.

Maize was at post flowering stage. Maize has been negatively affected by too much sunshine during the dekad, hence below normal yield is expected.

2.5 COASTAL REGION.

2.5.1 Msabaha

The station recorded total rainfall amount of 0.6 mm
Total Pan Evaporation recorded was 57.1mm. There was no report on mean Air Temperature.

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

2.5.2 Mtwapa

The station reported dry conditions. The mean Air temperature recorded was 28.6°C. Total Pan Evaporation recorded was 72.0mm.

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

2.5.3 Lamu

The station continued to report dry conditions. The Mean air temperature recorded was 29.3 °C. There was no report on total Pan Evaporation.

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

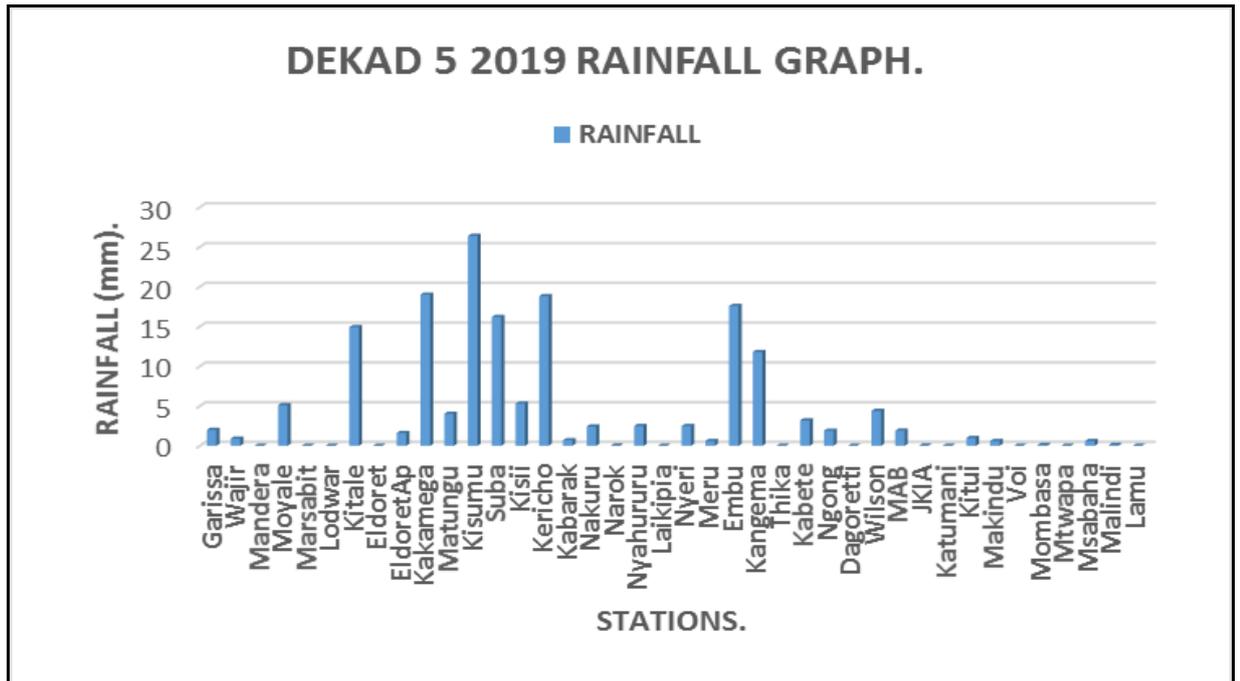


Figure 3.1: Dekadal rainfall totals for dekad 5, 2019.

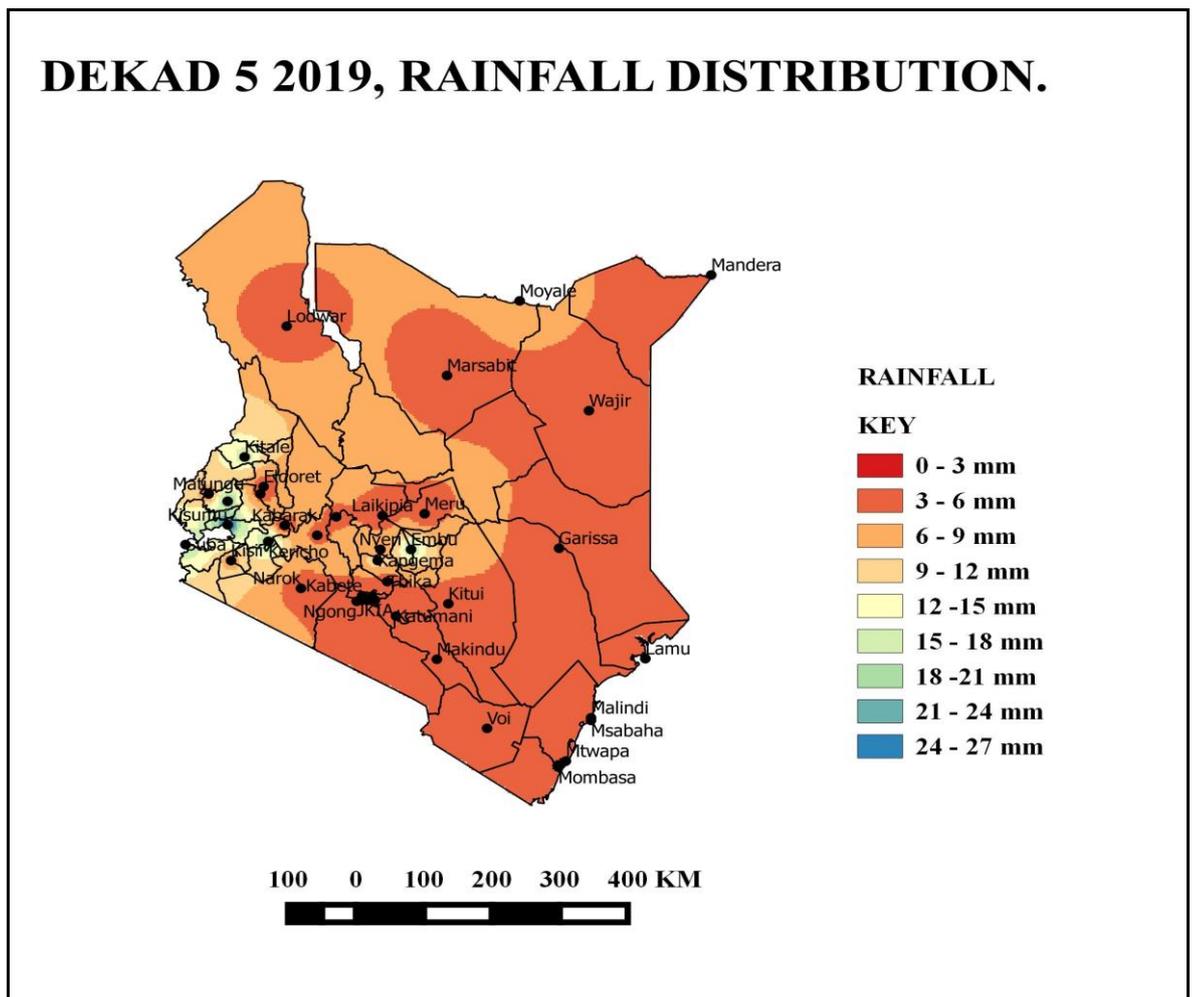


Figure 3.2: Dekadal rainfall distribution for dekad 5, 2019.

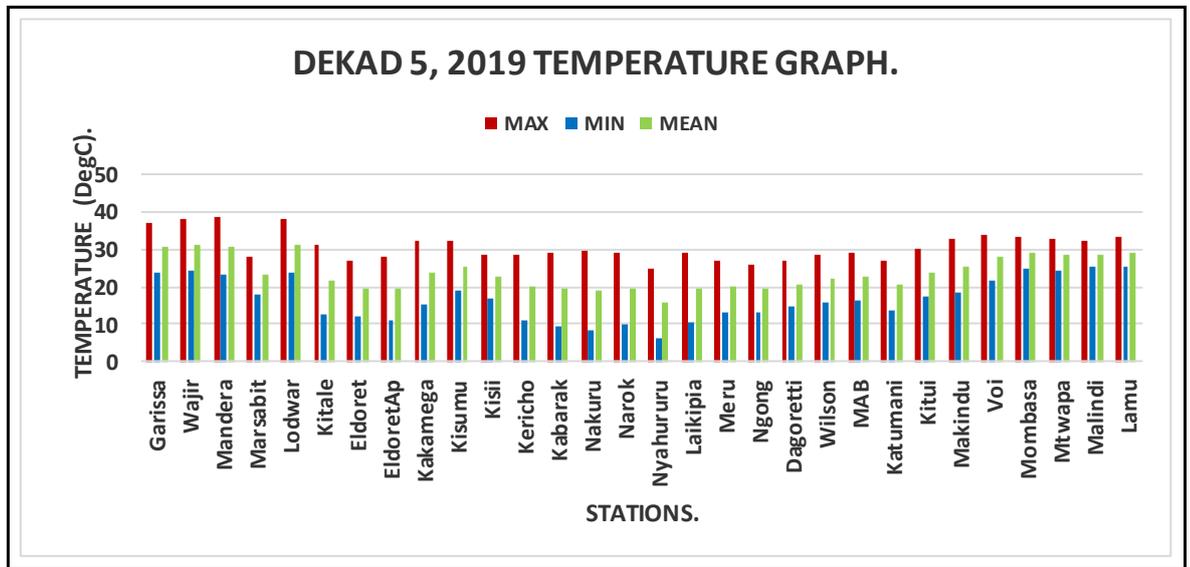


Figure3.3: Maximum, Minimum and Average temperature for dekad 5, 2019.

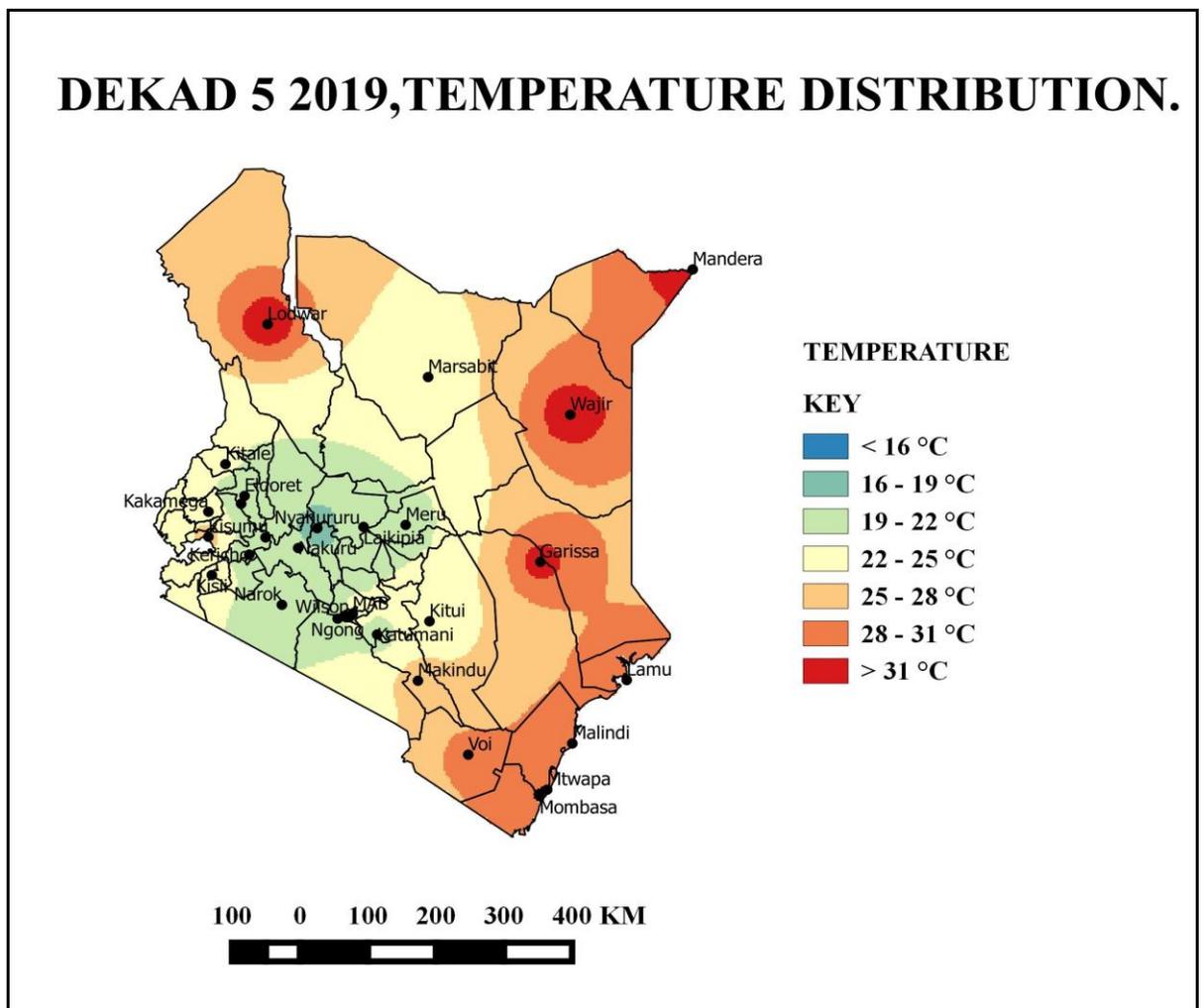


Figure 3.4: Mean temperature distribution for dekad 5, 2019.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 8 DAYS; 21TH– 28TH, 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 rains over few places in the morning except on the sixth day throughout the forecast period. There is a possibility of showers and thunderstorms over several places in the afternoon throughout the forecast.

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), Mornings are expected to experience rains over few places except on the 1st, 5th and 6th days of the forecast. Afternoons are expected to experience sunny intervals the entire period of the forecast except on the 2nd and 3rd day when possibility of showers and thunderstorms are expected over few places.

The rains will have a positive impact on the pasture and vegetation for the animals kept in 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 cloudiness with possibility of rains over few places and showers over few places in the afternoons throughout the forecast period.

The rains will benefit maize crop that were in post flowering stage in places like Kabete, Thika and Embu

North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience possibility of rains over few places in the morning and showers in the afternoon throughout the forecast period except on the sixth day.

The rains will have a positive impact on the pasture in the region.

South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui) Mornings are expected to experience rains over few places except on the 1st and 2nd day when sunny intervals are expected while afternoons will experience shower over few places in the entire forecast period.

The rains will benefit crops that were at post-flowering stage and pasture in this region.

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

Are expected to experience showers over few place the entire day throughout the forecast period.

The rains and showers will have a positive impact on the crops that are in post-flowering in places like Msabaha and Mtwapa.

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