



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 2, 11TH – 20TH JANUARY, 2019.**

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Dry weather conditions continued to be experienced over several parts of the country during this current dekad. Day-time (maximum) temperatures continued to increase, while Night-time (minimum) temperatures decreased drastically in most stations. Western and Nyanza regions received increased rainfall with Matungu, Kisumu and Suba counties recording 75.6, 61.6 and 50.0mm of rainfall respectively; compared to 65.8mm reported at Meru station in Eastern region in the previous Dekad. Counties in North-Eastern and coastal regions reported dry conditions with Msabaha station recording only 0.2mm of rainfall. Counties in Rift-Valley, Nairobi, Central and Eastern regions lesser rainfall compared to the previous dekad.

Maximum temperatures continued to increase, while Minimum temperatures reduced drastically in most stations during the dekad. The highest Maximum temperature of 37.6 °C was recorded at Wajir station in North - Eastern region compared to 37.0 °C reported in the same station in the previous dekad.

Nyahururu station in Central region recorded the lowest Minimum temperature of 7.1 °C compared to 8.0 °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 2, 11TH – 20TH JANUARY 2019.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded total rainfall amount of 17.8 mm. Mean air temperature recorded was 22.4°C. There were no report on total Pan Evaporation and sunshine parameters.

There was no phenological report.

2.1.2 Kisii

The station reported total rainfall amount of 14.3 mm. The mean air temperature and the total Pan Evaporation recorded were 21.5°C and 32.8 mm respectively.

Maize was at 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 recorded 5.4 mm of rainfall. The mean air temperature was 20.1°C. There was no report on evaporation pan and sunshine parameters.

No phenological Report

2.2.2 Eldoret – Kapsoya.

The station recorded 7.0 mm of rainfall. Mean air temperature was 17.9°C. There was no report on total Evaporation Pan and sunshine parameters.

No phenological Report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

2.3.1 Nyeri

The station recorded 8.3 mm of rainfall. There was no report on Mean air temperature, total Pan Evaporation and Sunshine duration parameters.

Maize and beans were in flowering and maturity stages respectively. Both crops were in fair state, hence normal yield is expected.

2.3.2 Kabete

The station received 3.0mm of rainfall. There was no report on Mean air temperature, total Pan Evaporation and Sunshine duration.

Maize and Beans were still in flowering and maturity stages respectively; both crops were in fair state and hence normal yield is expected.

2.3.3 Nyahururu

The station received 2.2 mm of rainfall. The mean air temperature recorded was 15.1°C. There was no report on total Pan Evaporation and sunshine parameters.

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

2.3.4 Dagoretti

The station recorded 0.4 mm of rainfall. The Mean air temperature was 20.0°C. There was no report on total Pan Evaporation and sunshine parameters.

There was no Phenological report.

2.3.5 Thika

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

Maize and Beans were still at emergence and flowering stages respectively; both crops were in fair state hence normal yield is expected.

2.4 EASTERN REGION.

2.4.1 Embu

The station recorded 0.01mm of rainfall. Total Pan Evaporation recorded was 48.0mm. There was no report on Mean Air Temperature and sunshine parameters.

Maize and Beans were at flowering and maturity stages respectively. Both crops were in fair state, hence normal yield is expected.

2.4.2 Meru

The station recorded 14.1 mm of rainfall. The Mean air temperature was 18.9 °C, there was no report on Pan Evaporation and sunshine parameters.

There was no phenological report.

2.4.3 Katumani (Machakos)

The station received 14.7 mm of rainfall. Mean air temperature was 18.8 °C. Total Pan Evaporation recorded was 46.7mm. There was no report on sunshine parameters.

Maize and Bean crops were at flowering and harvest stages respectively; both were in good state and hence normal yield is expected.

2.5 COASTAL REGION.

2.5.1 Msabaha

The station recorded 0.2 mm of rainfall. Total Pan Evaporation recorded was 50.2mm. There was no report on mean Air Temperature, and sunshine parameters.

Maize and Beans crops were at flowering and maturity stages respectively. Both crops were in fair state; hence normal yield is expected.

2.5.2 Mtwapa

The station reported dry conditions. The mean Air temperature recorded was 28.3°C. Total Pan Evaporation recorded was 69.5mm. There was no report on sunshine parameter.

Maize and Beans crops were at flowering and maturity stages respectively. Both crops were in fair state; hence normal yield is expected.

Mangoes were in dormant stage.

2.5.3 Lamu

The station recorded 0.01 mm of rainfall. The Mean air temperature recorded was 28.6 °C. There was no report on total Pan Evaporation and sunshine parameters.

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

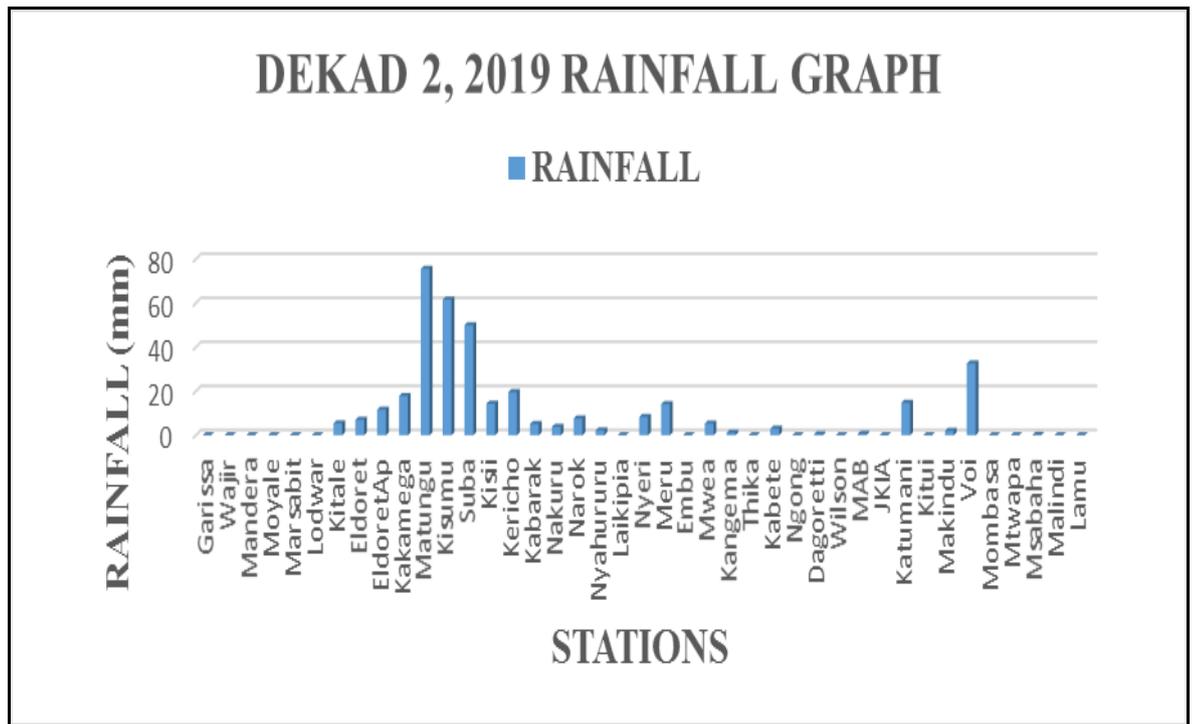


Figure 3.1: Dekadal rainfall totals for dekad 2, 2019.

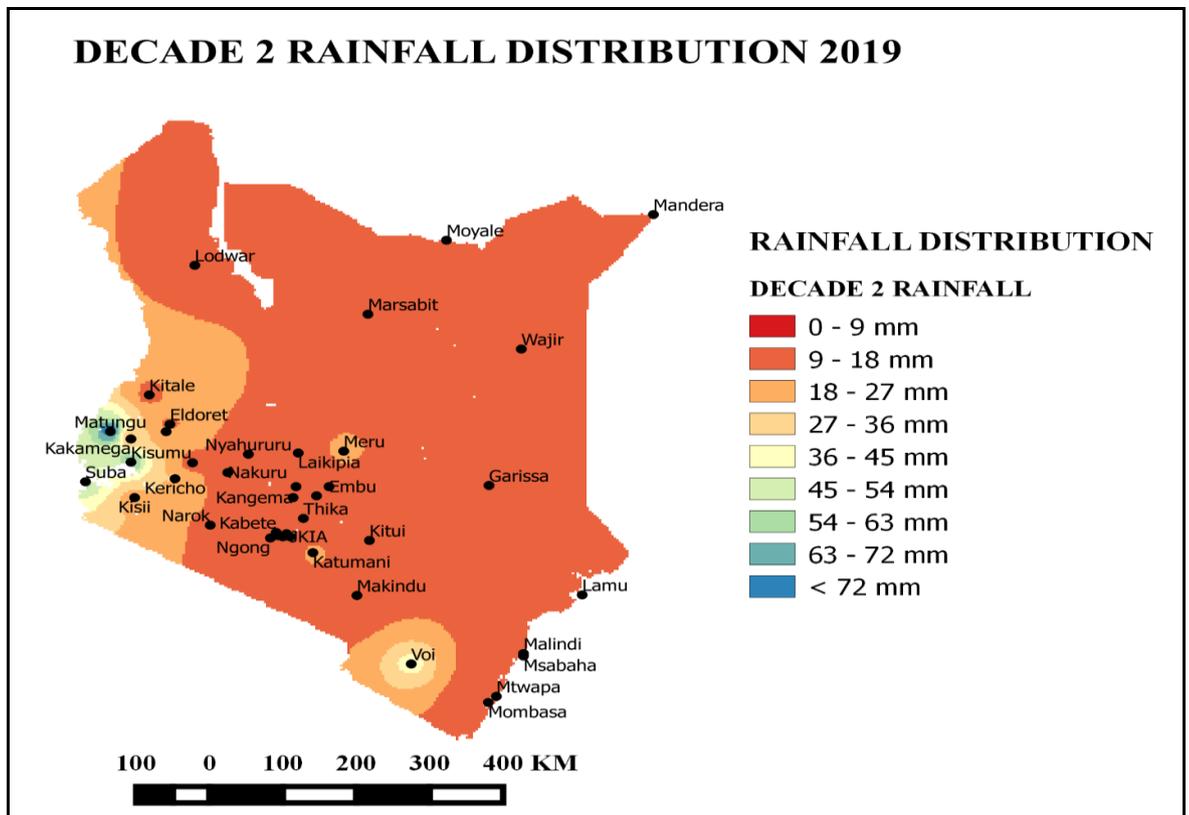


Figure 3.2: Dekadal rainfall distribution for dekad 2, 2019.

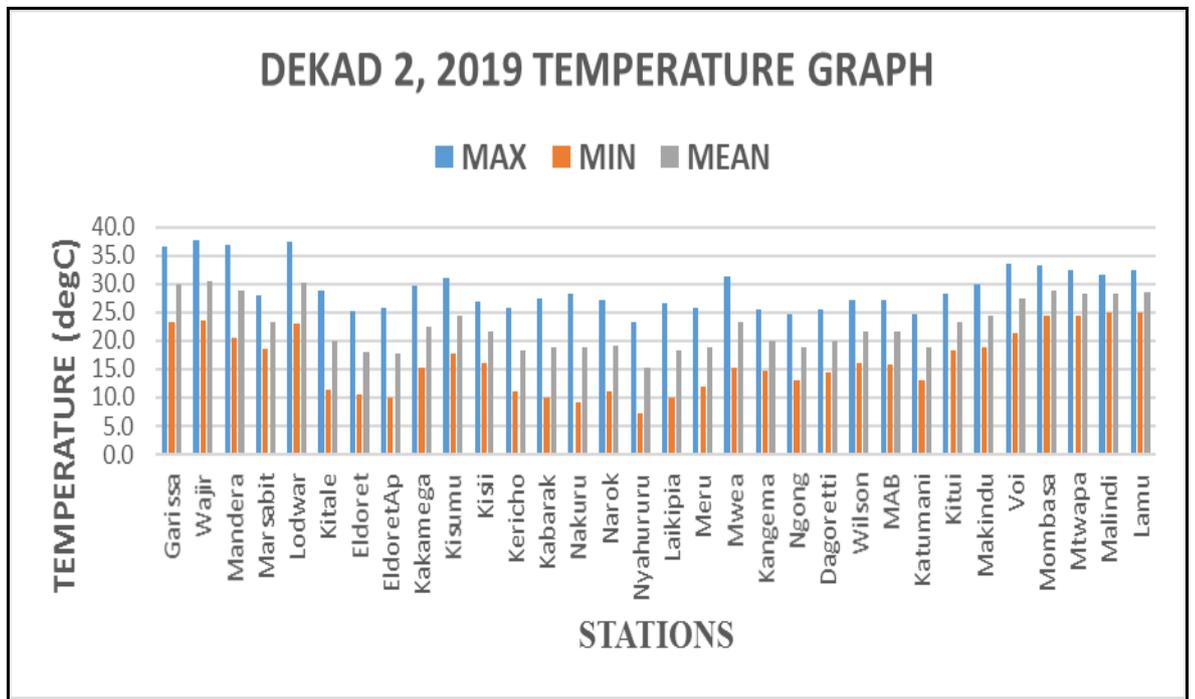


Figure3.3: Maximum, Minimum and Average temperature for dekad 2, 2019.

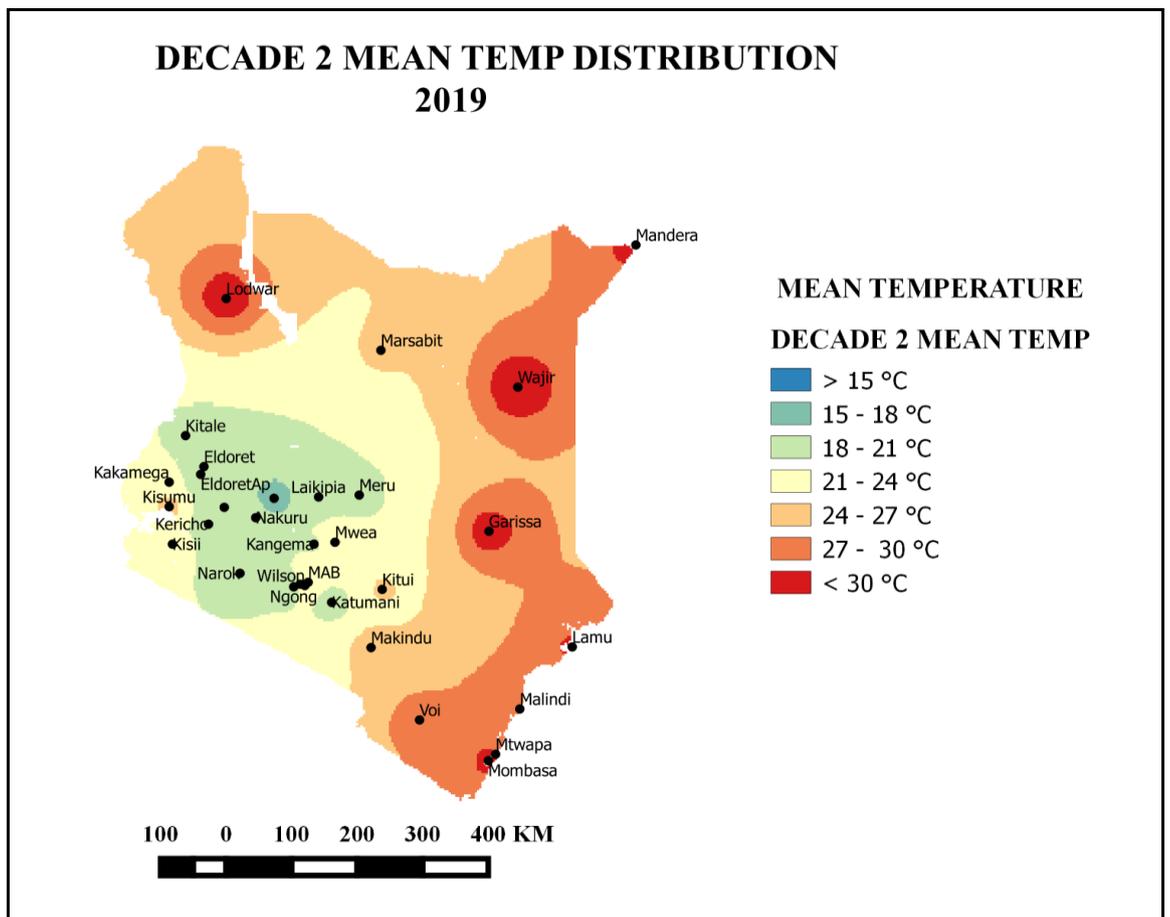


Figure 3.4: Mean temperature distribution for dekad 2, 2019.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST– 31ST, JANUARY 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 sunny intervals throughout the forecast period. Afternoons/Evenings are expected to experience showers and thunderstorms over few places for the first five days of the forecast period followed by sunny intervals thereafter.

The showers will have a positive impact on the crops that are still at 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 sunny conditions continues to have a negative effect 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 sunny intervals throughout the forecast period.

Afternoons/evening are expected to experience mainly sunny intervals except on the 3rd to 6th days of the forecast period, where there will be a chance of showers over few high-ground areas.

The Showers will continue to benefit maize and Beans crops that are in flowering and maturity stages in places like Kabete, Thika and Embu .

North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Sunny conditions the whole day are expected during the forecast period.

The dry conditions continues to impact negatively on the pasture in the region.

South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui), Sunny conditions the whole day are expected during the forecast period.

The dry conditions will continue to affect negatively 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.

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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