



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 3, 21ST– 31ST JANUARY, 2019.**

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Dry weather conditions continued to be experienced in most parts of the country during this dekad. Day-time (maximum) and Minimum temperatures were still on an increasing and decreasing trend respectively. The highest rainfall countrywide was received in Rift Valley and Western regions with Eldoret Airport, Matungu and Narok stations reporting 17.6mm, 4.6 and 4.4 mm respectively; compared with 75.6mm reported at Matungu station in Western region in previous Dekad. Counties in Nyanza and Coastal regions received some rainfall amount ranging between 1.5 to 3.7 mm. Most stations in Central, Nairobi, Eastern and North-Eastern region reported dry conditions.

Maximum temperatures continued to increase in most parts of the country except in the Northern and Coastal regions where there was a decrease. Minimum temperatures were still on a decreasing trend. The highest Maximum temperature of 37.8 °C was recorded at Lodwar station in North - Eastern region compared to 37.6 °C reported at Wajir station in the same region in the previous dekad.

Nyahururu station in Central region recorded the lowest Minimum temperature of 5.9 °C compared to 7.1 °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 3, 21ST – 31ST JANUARY 2019.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded total rainfall amount of 2.2 mm. Mean air temperature recorded was 22.4°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 3.7 mm. The mean air temperature and the total Pan Evaporation recorded were 22.6°C and 44.7 mm respectively.

Maize was still 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 0.01 mm of rainfall. The mean air temperature was 20.8°C. Total evaporation pan recorded was 57.5mm.

No phenological Report

2.2.2 Eldoret – Kapsoya.

The station reported dry conditions. Mean air temperature was 18.3°C. Total Evaporation Pan recorded was 80.0mm.

No phenological Report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

2.3.1 Nyeri

The station recorded 0.8 mm of rainfall. There was no report on Mean air temperature and total Pan Evaporation.

Maize was still in flowering stage, while beans were at still at maturity stage. Both crops were in fair state, hence normal yield is expected.

2.3.2 Kabete

The station reported dry conditions. Total Pan Evaporation recorded was 61.5mm. There was no report on Mean air temperature.

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 reported dry conditions. The mean air temperature recorded was 15.2°C. There was no report on total Pan Evaporation.

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

2.3.4 Dagoretti

The station recorded 0.1 mm of rainfall. The Mean air temperature was 20.6°C. Total Pan Evaporation recorded was 68.1mm.

There was no Phenological report.

2.3.5 Thika

The station continued to report dry conditions. Total Pan Evaporation recorded was 61.5mm. There was no report on Mean Air temperature.

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

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

2.4.2 Meru

The station reported dry conditions. The Mean air temperature was 18.7 °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 20.0 °C. Total Pan Evaporation recorded was 72.0mm.

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

2.5 COASTAL REGION.

2.5.1 Msabaha

The station reported dry conditions. Total Pan Evaporation recorded was 52.0mm. There was no report on mean Air Temperature.

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

2.5.2 Mtwapa

The station continued to report dry conditions. The mean Air temperature recorded was 27.6°C. Total Pan Evaporation recorded was 72.0mm.

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

Mangoes were in dormant stage.

2.5.3 Lamu

The station reported dry conditions. The Mean air temperature recorded was 28.2 °C. There was no report on total Pan Evaporation.

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

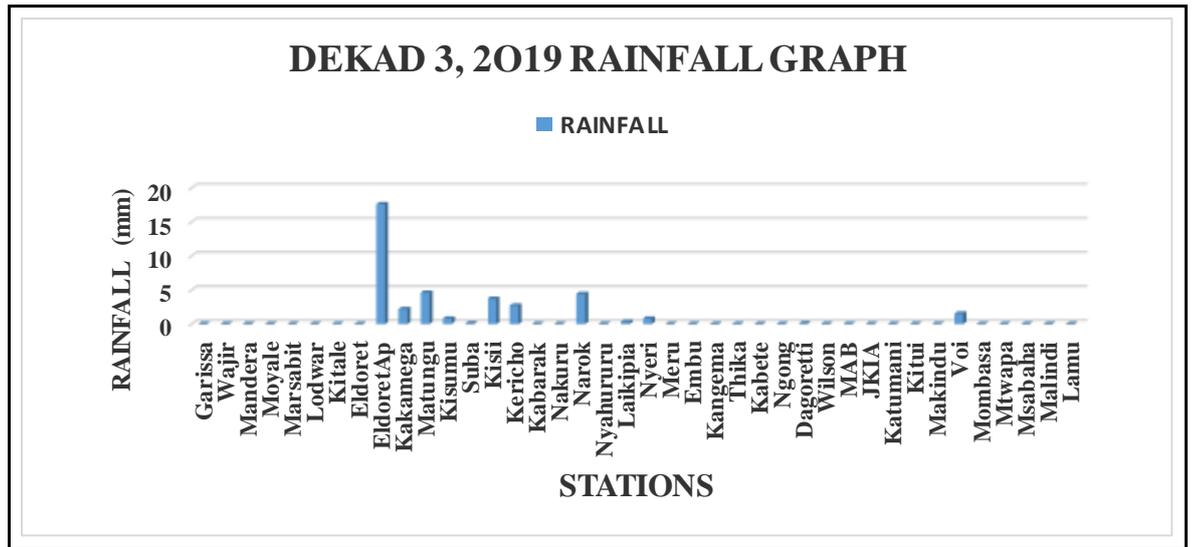


Figure 3.1: Dekadal rainfall totals for dekad 3, 2019.

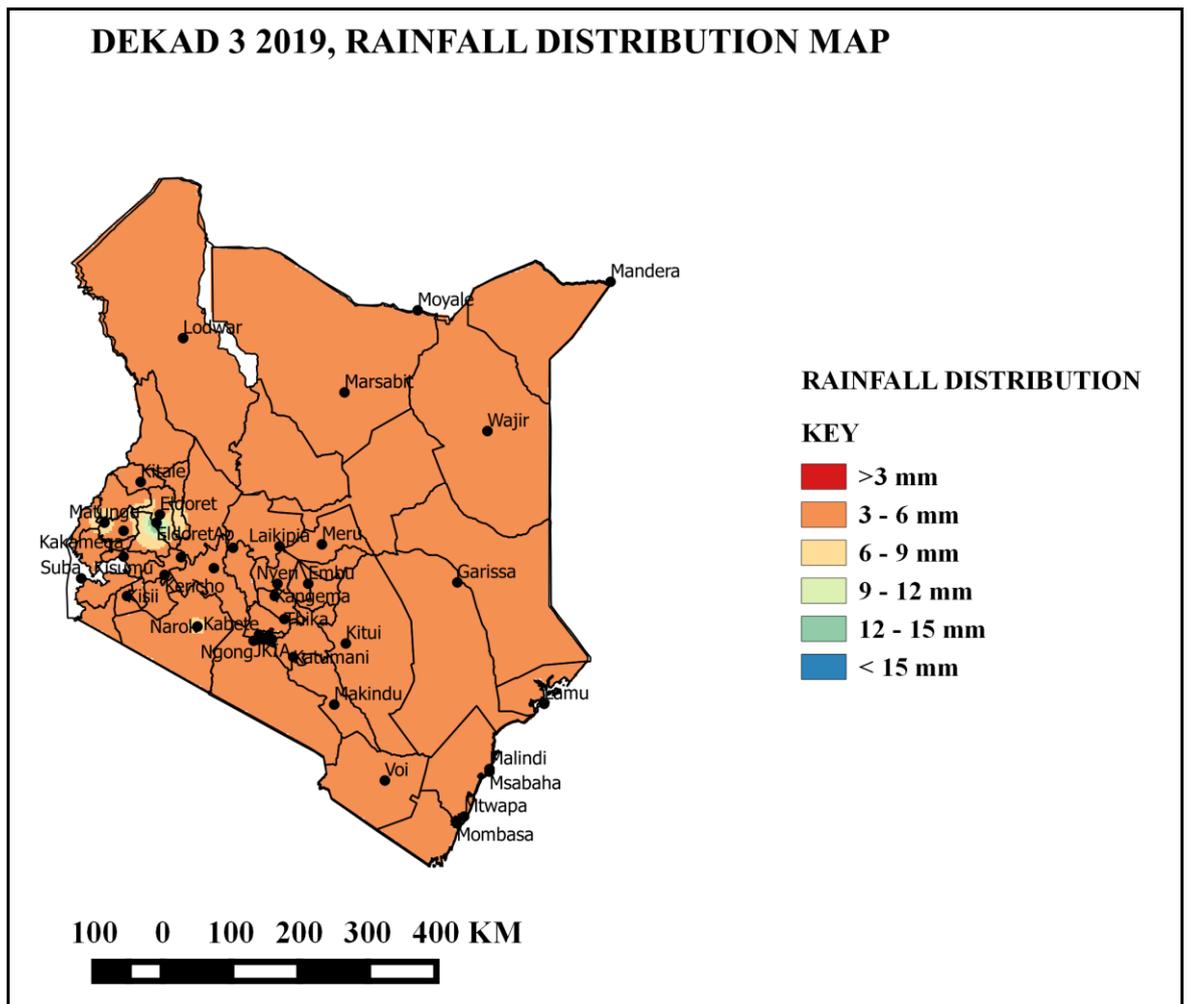


Figure 3.2: Dekadal rainfall distribution for dekad 3, 2019.

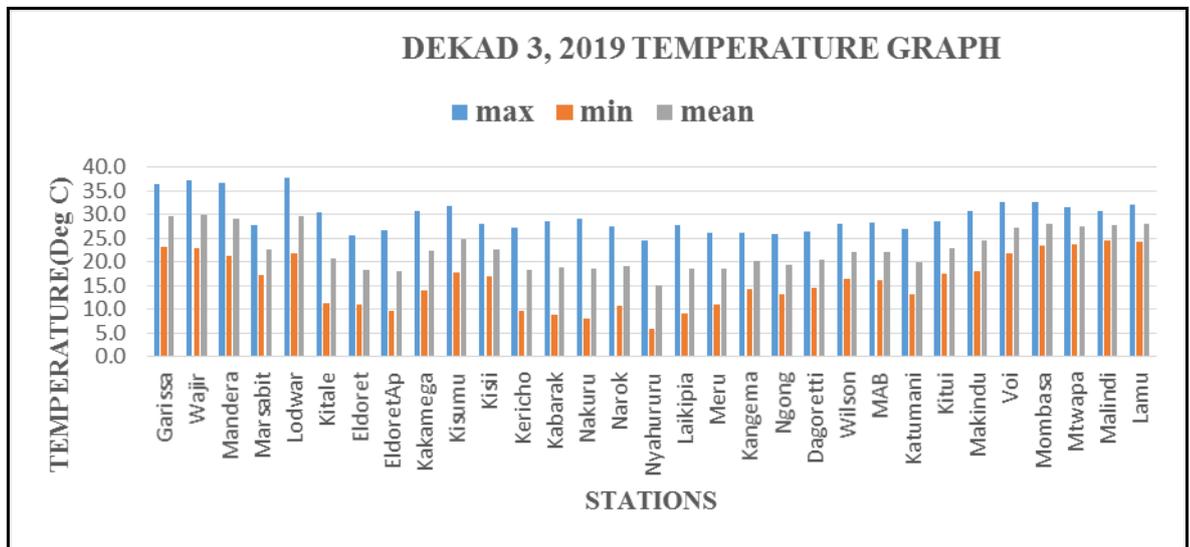


Figure3.3: Maximum, Minimum and Average temperature for dekad 3, 2019.

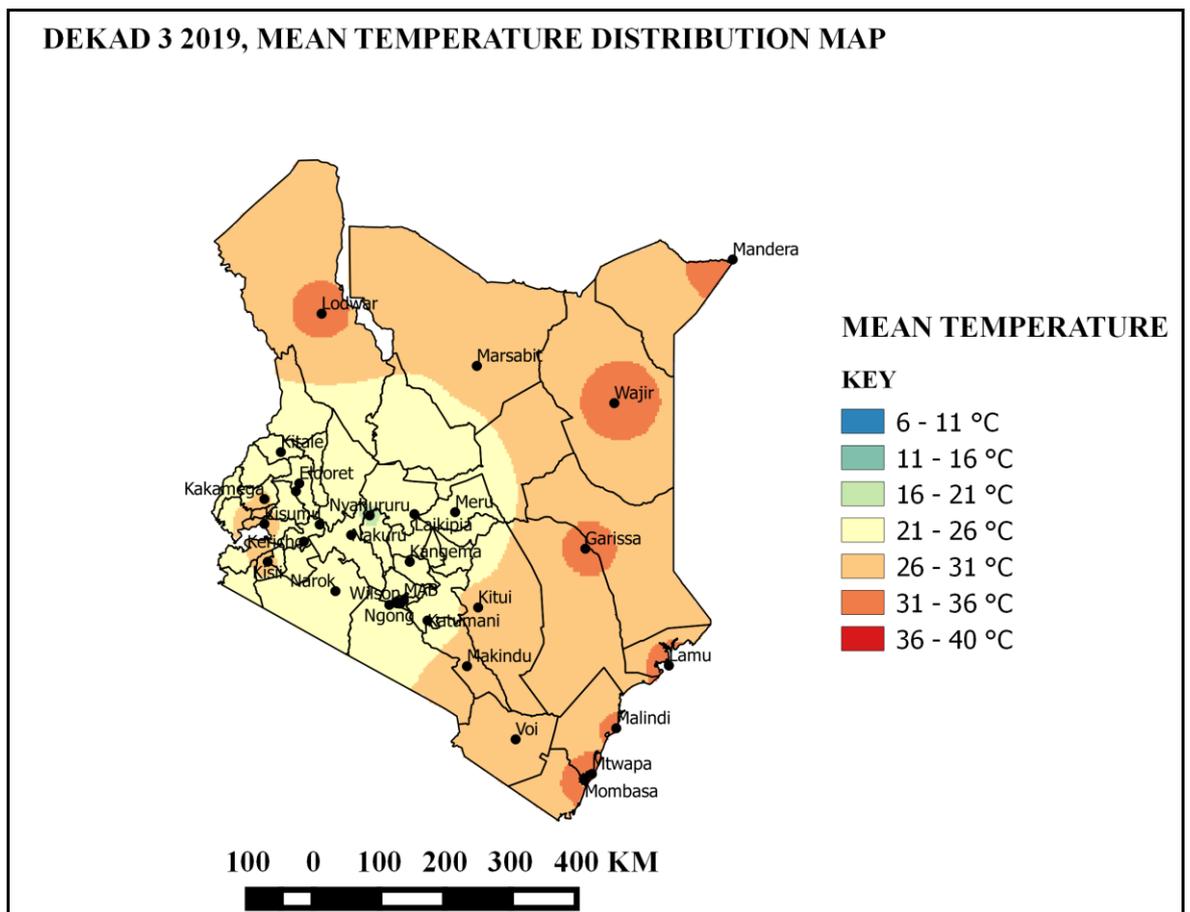


Figure 3.4: Mean temperature distribution for dekad 3, 2019.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST– 10TH, 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 6th to 8th days where there is a possibility of showers over few places.

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 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 7th and 8th days where there is a possibility of showers over few places.

The Showers will continue to 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), Sunny conditions the whole day are expected during the forecast period.

The dry conditions continues 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 8th 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 7th and 8th days where there is a possibility of showers over few places.

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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