



**KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 8, 11TH -20TH MARCH, 2018**

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities decreased in intensity and slightly increased in spatial distribution. The highest rainfall countrywide was received in Eastern region where Makindu station recorded 152.7mm of rainfall compared to 206mm reported at Kabete station in Nairobi region in the previous dekad. The second highest rainfall of 147.9mm was received at Kabete station in Nairobi region. Rift Valley region recorded the highest rainfall amount of 142.5 mm at Narok station. Nyanza region recorded the highest rainfall amount of 123.4mm at Kisii station. Nyahururu station in Central region received the highest rainfall amount of 108.0mm. Coastal region recorded the highest rainfall amount of 99.4 mm at Voi station. Western region reported 79.9mm of rainfall at Matungu station; while Garissa station in North Eastern region received 72.8mm of rainfall

Maximum temperatures were still on a decreasing trend in most stations, though, Mandera station in North-Eastern region that recorded the highest temperature of 38.0°C, indicated an increase up from 37.3°C that was reported in the same station in the previous dekad. Minimum temperatures drastically increased; with Nyahururu station recording 11.6°C; compared to 10.5°C reported at 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 11TH-20TH MARCH, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 66.7 mm of rainfall. The Mean air temperature recorded was 22.0°C. Sunshine duration was 0.4hrs/day. There was no report on total Pan Evaporation.

Most farmers are still planting their crops.

2.1.2 Kisii

The station recorded total rainfall amount of 123.4mm. The Mean air temperature and total Pan Evaporation recorded were 20.0°C and 21.7mm respectively. No report on Sunshine parameter.

Farmers have started planting.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded 116.2mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 20.2°C and 32.7mm respectively. There was no report on Sunshine parameter.

Planting of crops is underway.

2.2.2 Eldoret - Kapsoya

The station recorded 104.2mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 17.9°C and 33.7mm respectively. There was no report on Sunshine parameter.

Most farmers are still planting their crops.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 57.6mm of rainfall. The Mean air temperature recorded was 19.3°C. Sunshine duration was 3.0hrs/day. There was no report on total Pan Evaporation.

Planting of crops is still underway.

2.3.2 Kabete

The station recorded 147.9 mm of rainfall. Total Pan Evaporation and Sunshine duration were 29.9mm and 2.3hrs/day respectively. There was no report on mean air temperature.

Maize and Beans are in emergency and in fair.

2.3.3 Nyahururu

The station received 108.0mm of rainfall. The mean air Temperature recorded was 16.5°C. There was no report on total Pan Evaporation and Sunshine parameters.

Planting of crops is still underway.

2.3.4 Dagoretti

The station received 133.2 of rainfall. The Mean air temperature and total Pan Evaporation reported were 18.9°C and 14.6mm respectively. There was no report on Sunshine parameter.

No Phenological report.

2.3.5 Thika

The station recorded 68.0mm of rainfall. Total Pan Evaporation recorded was 31.5mm. There was no report on Mean air temperature and Sunshine duration.

Maize and beans are in emergence stage and in fair state.

2.4 EASTERN REGION

2.4.1 Embu

The station received 98.1mm of rainfall. Total Pan Evaporation recorded was 20.7mm. Sunshine hrs was 2.5hrs/day. There was no report on Mean Air Temperature.

Planting of crops is still underway in most farms.

2.4.2 Meru

The station received 107.3mm of rainfall. The mean air Temperature and total Pan Evaporation recorded were 19.5°C and 41.3 mm respectively. There was no report on sunshine duration.

Planting of crops is still ongoing in many farms.

2.4.3 Katumani (Machakos)

The station received 78.0mm of rainfall. The mean air Temperature and total Pan Evaporation recorded were 20.1°C and 35.0mm respectively. Sunshine duration was 2.6hrs/day.

Farmers have started planting their crops.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 17.6mm of rainfall. Total Pan Evaporation recorded was 43.6mm. There was no report on mean air Temperature and Sunshine duration

Land preparation is still ongoing and some farmers have started planting their crops.

2.5.2 Mtwapa

The station received 70.3mm of rainfall. The mean air Temperature and total Pan Evaporation recorded were 27.7°C and 41.8 mm respectively. There was no report on Sunshine parameter.

Land preparation is still underway.

2.5.3 Lamu

The station recorded 0.4mm of rainfall. The Mean air temperature recorded was 29.8°C. Sunshine duration was 7.2hrs/day. There was no report on total Pan Evaporation.

Land preparation is still underway.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

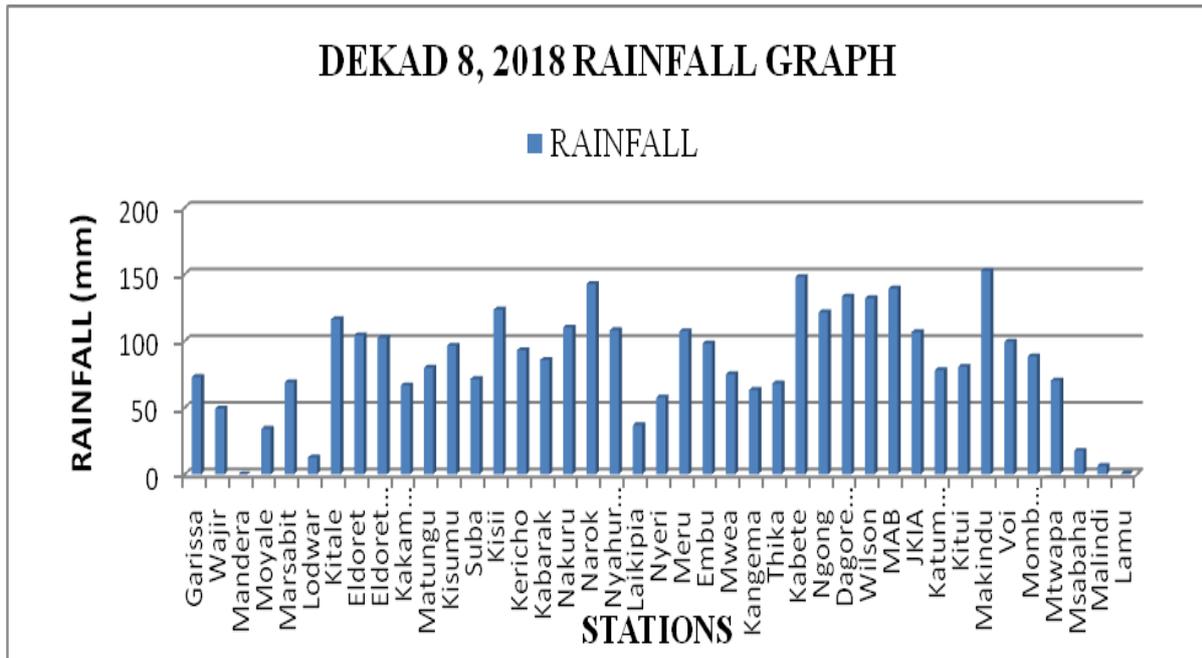


Figure 3.1: Dekadal rainfall totals for dekad 8, 2018

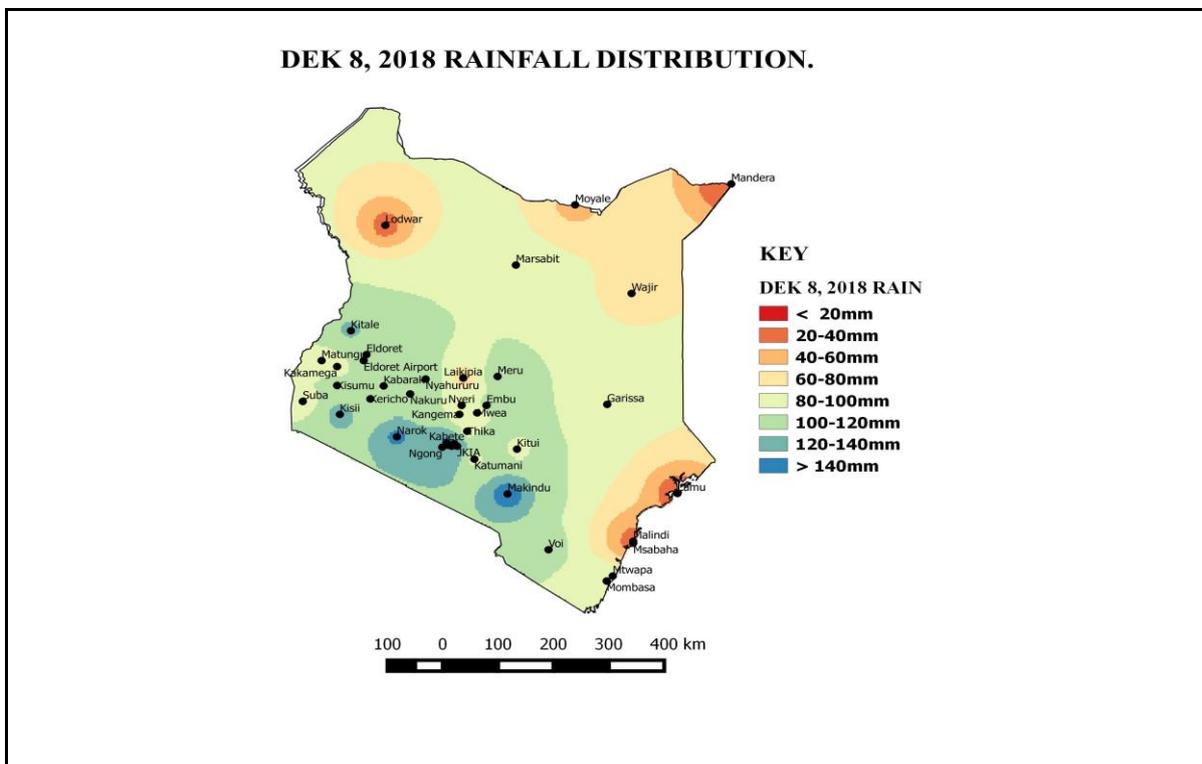


Figure 3.2: Dekadal rainfall distribution for dekad 8, 2018

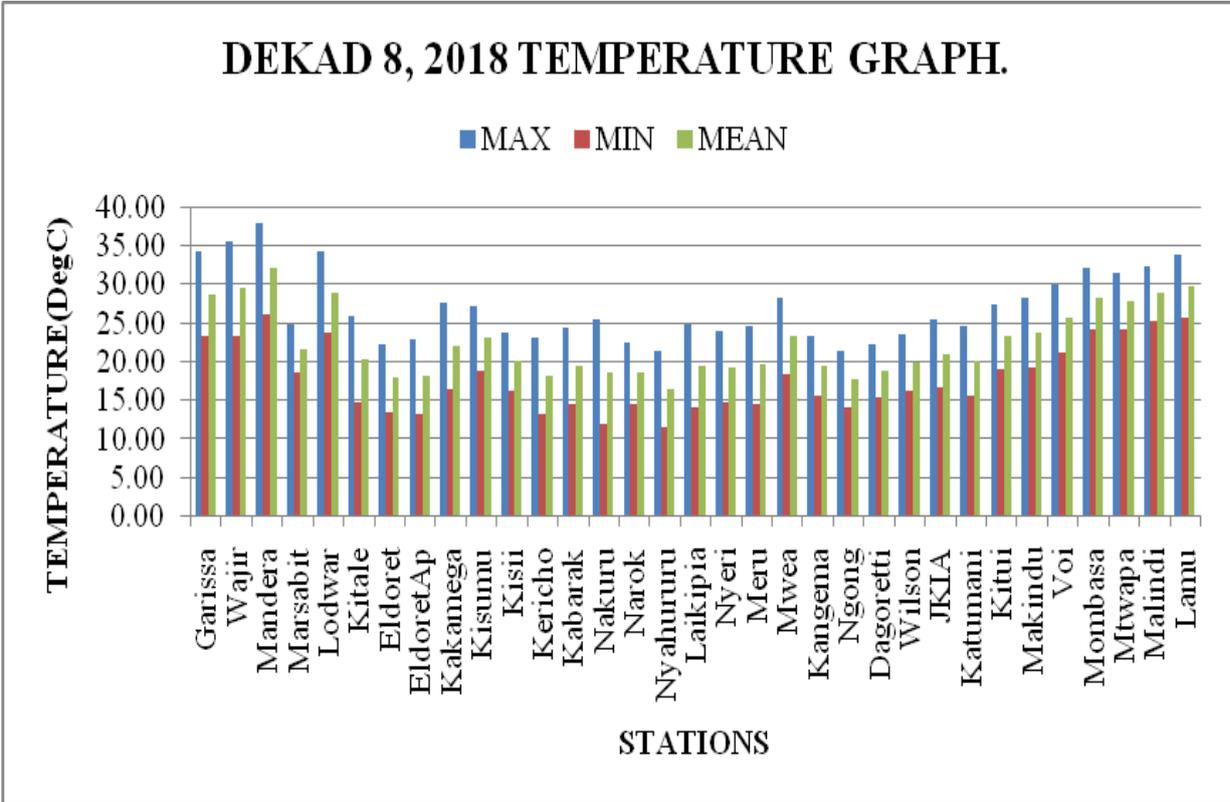


Figure 3.3: Maximum, Minimum and Average temperature for dekad 8, 2018

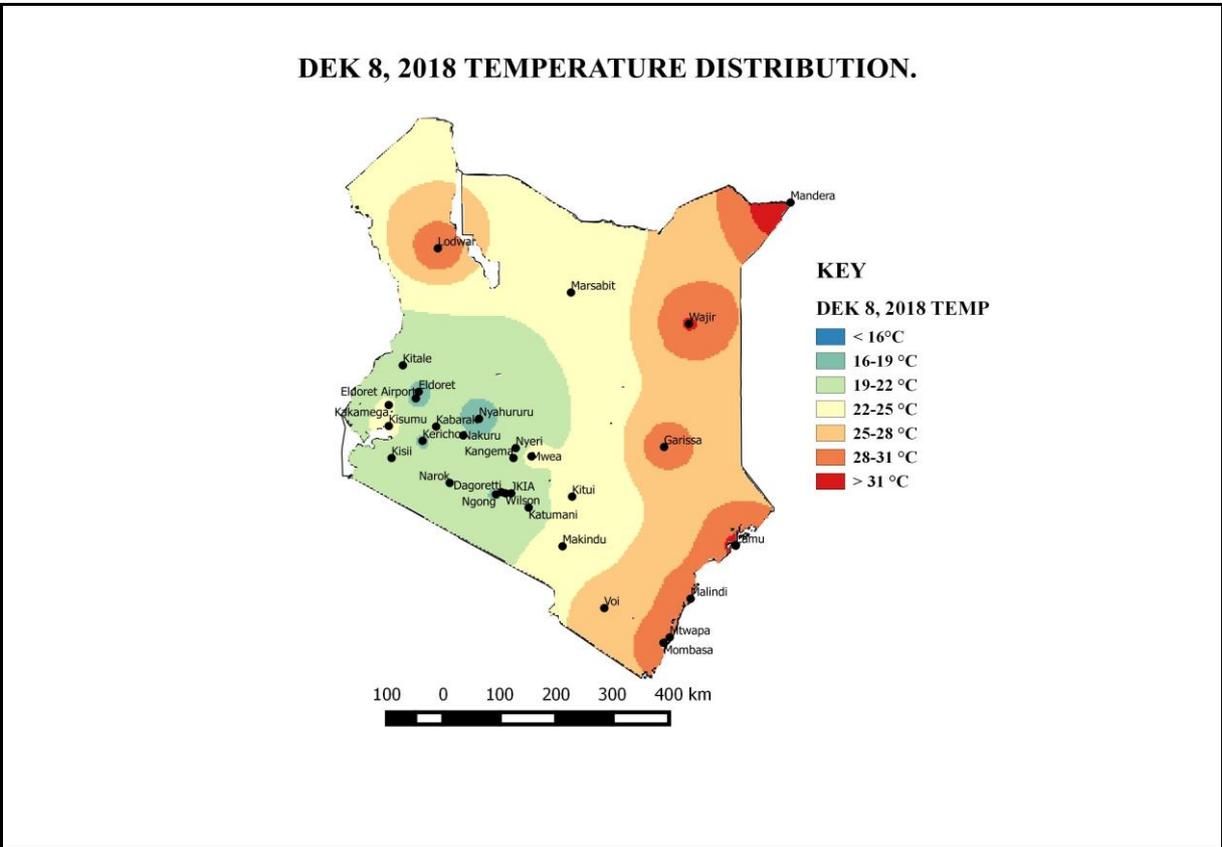


Figure 3.4: Mean temperature distribution for dekad 8, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST to 31ST MARCH 2018.

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 for the first two days of the forecast period, followed by sunny intervals for the rest of the forecast period. Afternoons/Evenings are expected to experience showers over few places for the first three days of the forecast period, followed by showers and thunderstorms over several places for the rest of the forecast period.

The showers and rains will be of great benefit to the crops that have been planted in places like Kisumu, Kisii, and Kakamega etc.

The Northwestern counties (Turkana, West Pokot and Samburu), are expected to experience mainly sunny intervals the entire day for most of the forecast period however there is a possibility of rains over few places in the morning on the fifth day of the forecast period, showers and thunderstorms over few places in the afternoon on the second and the fifth day of the forecast period.

The showers and rains will continue to have a positive impact on the pasture 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 except on the second and sixth day of the forecast period when rains over few places are expected. Afternoons are expected to experience mainly showers over few places for the first four days of the forecast period increasing to several places thereafter.

The rains and showers will be very beneficial to the crops that are in emergence in places like Kabete, Thika, Embu and Meru.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Mornings are expected to experience mainly rains over few places throughout the forecast period. Afternoons are expected to experience mainly showers and thunderstorms over few places throughout the forecast period.

The showers and rains will continue to replenish the pasture for the animals kept in this region.

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui) Mornings are expected to experience mainly sunny intervals throughout the forecast period except on the second and the sixth day when there is a possibility of rains over few places. Afternoons are expected to experience mainly sunny intervals except on the fifth and the sixth day of the forecast period when showers over few places are expected.

The rains and showers will continue to replenish the vegetation and pasture for the animals kept in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc) Mornings are expected to experience sunny intervals for most of the forecast period except on the second day when there is a possibility of showers over few places. Afternoons are expected to experience showers over few places for most of the forecast period.

The showers and rains will benefit the vegetation in this region.

For feedback or further guidance, Contact:

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