



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 10, 1ST-10TH APRIL, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities drastically increased both in intensity and in spatial distribution countrywide. The highest rainfall of 283.8 mm was received in Western region at Kakamega station, compared to 165.0 mm reported at Kitui station in Eastern region in the previous dekad. The second highest rainfall of 277.7 mm was recorded at Kitui station in Eastern region. Central region received the highest rainfall amount of 261.6mm at Kangema station. Rift Valley region reported the highest rainfall amount of 188.0 mm at Kericho station. Kisii station in Nyanza region recorded the highest rainfall amount of 114.6 mm. North Eastern region received the highest rainfall amount of 86.6 mm at Moyale station. Nairobi region reported 48.3 mm of rainfall at Kabete station; while Lamu station in Coastal region received 45.2 mm of rainfall.

Both Maximum and minimum temperatures decreased and increased drastically respectively in most stations. The highest temperature of 34.4^oC was recorded at Garissa station in North-Eastern region compared to 36.5^oC reported at Mandera station in the same region in the previous dekad.

The lowest Minimum temperature of 10.5^oC was recorded at Nyahururu station in Central region compared to 8.7^oC 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 1ST-10ST APRIL, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 283.8mm of rainfall. The Mean air temperature recorded was 21.3^oC. There was no report on total Pan Evaporation and sunshine duration.

Maize and beans were both at emergence stage and in good state; weeding is ongoing.

2.1.2 Kisii

The station recorded total rainfall amount of 114.6mm. The Mean air temperature and total Pan Evaporation recorded were 20.0^oC and 29.1mm respectively. No report on Sunshine parameter.

Maize was at emergence stage and fair state; while beans at emergence stage and in poor state due to attack by black aphids. Weeding is underway.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded 89.8mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 20.0°C and 30.8mm respectively. There was no report on Sunshine parameter.

Maize and beans were at emergence and in good state.

2.2.2 Eldoret - Kapsoya

The station recorded 73.8mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 18.4°C and 46.7mm respectively. There was no report on Sunshine parameter.

Maize was at emergence stage and in fair state.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 17.3mm of rainfall. The Mean air temperature recorded was 19.2°C. Sunshine duration was 5.1hrs/day. There was no report on total Pan Evaporation.

Maize and beans were at emergence stage and in fair state; weeding is underway.

2.3.2 Kabete

The station recorded 48.3mm of rainfall. Total Pan Evaporation was 40.3mm. There was no report on mean air temperature and sunshine parameter.

Maize and beans were at emergence and in fair state.

2.3.3 Nyahururu

The station received 67.8mm of rainfall. The mean air temperature recorded was 16.7°C. There was no report on sunshine parameter.

Maize and beans were at emergence stage and in fair state.

2.3.4 Dagoretti

The station received 26.2mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 19.5°C and 37.5mm respectively. There was no report on Sunshine parameter.

No Phenological report.

2.3.5 Thika

The station recorded 100.6mm of rainfall. Total Pan Evaporation recorded was 33.4mm. There was no report on Mean air temperature and Sunshine duration.

Maize and beans were in emergence stage and in fair state; farmers are weeding.

2.4 EASTERN REGION

2.4.1 Embu

The station received 174.9mm of rainfall. Total Pan Evaporation recorded was 23.7mm. Sunshine hours was 5.7hrs/day. There was no report on Mean Air Temperature.

Maize and beans were still at emergence stage and in fair state.

2.4.2 Meru

The station received 99.5mm of rainfall. The mean air Temperature was 19.2°C. There was no report on sunshine duration and total Pan Evaporation.

Maize and beans were still at emergence stage and in good state; weeding still ongoing.

2.4.3 Katumani (Machakos)

The station received 43.9mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 19.6°C and 43.9mm respectively. Sunshine duration was 7.0hrs/day.

Maize and beans were at emergence and flowering stages respectively. Both crops are in good state.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 34.7mm of rainfall. Total Pan Evaporation recorded was 52.2mm. There was no report on mean air Temperature and Sunshine duration.

Farmers are planting their maize crop.

2.5.2 Mtwapa

The station received 30.4mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 28.2°C and 47.9mm respectively. There was no report on Sunshine parameter.

Some farmers have started planting their crops. Mangoes are in flowering stage.

2.5.3 Lamu

The station recorded 45.2mm of rainfall. The Mean air temperature recorded was 30.0°C. Sunshine duration was 8.0hrs/day. There was no report on total Pan Evaporation.

Some farmers have started planting their crops.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

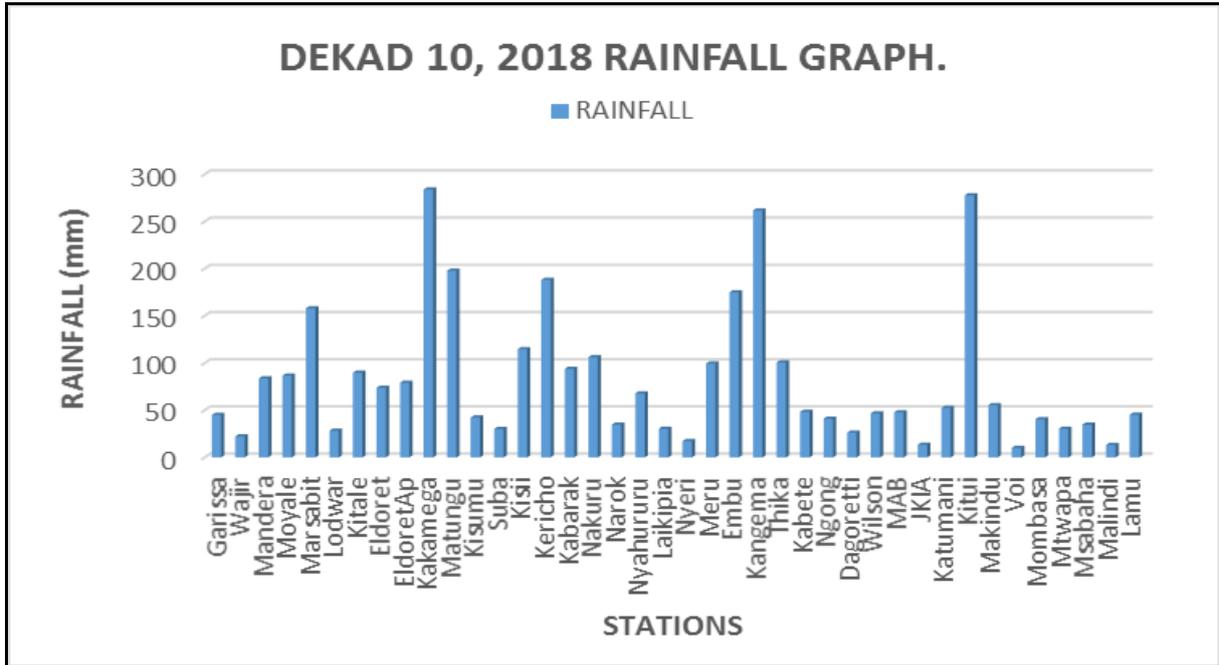


Figure 3.1: Dekadal rainfall totals for dekad 10, 2018

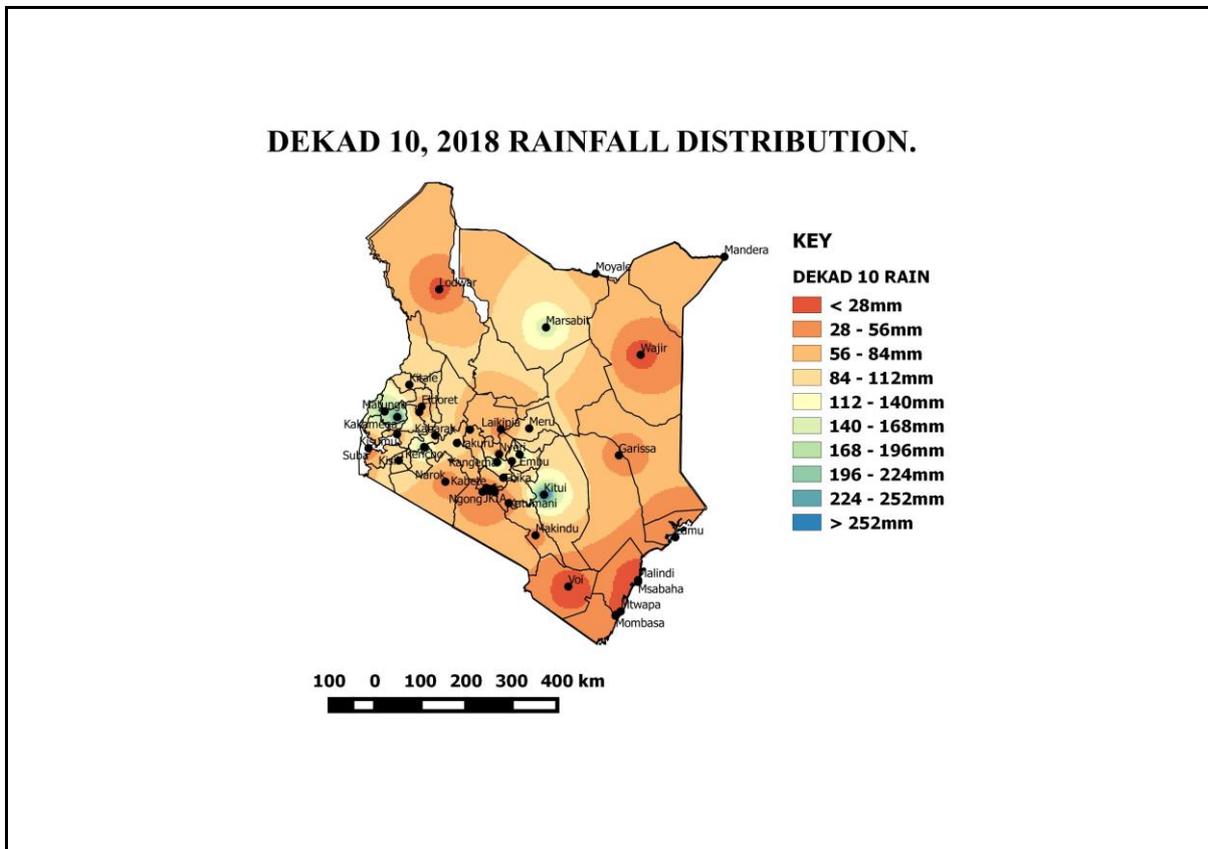


Figure 3.2: Dekadal rainfall distribution for dekad 10, 2018

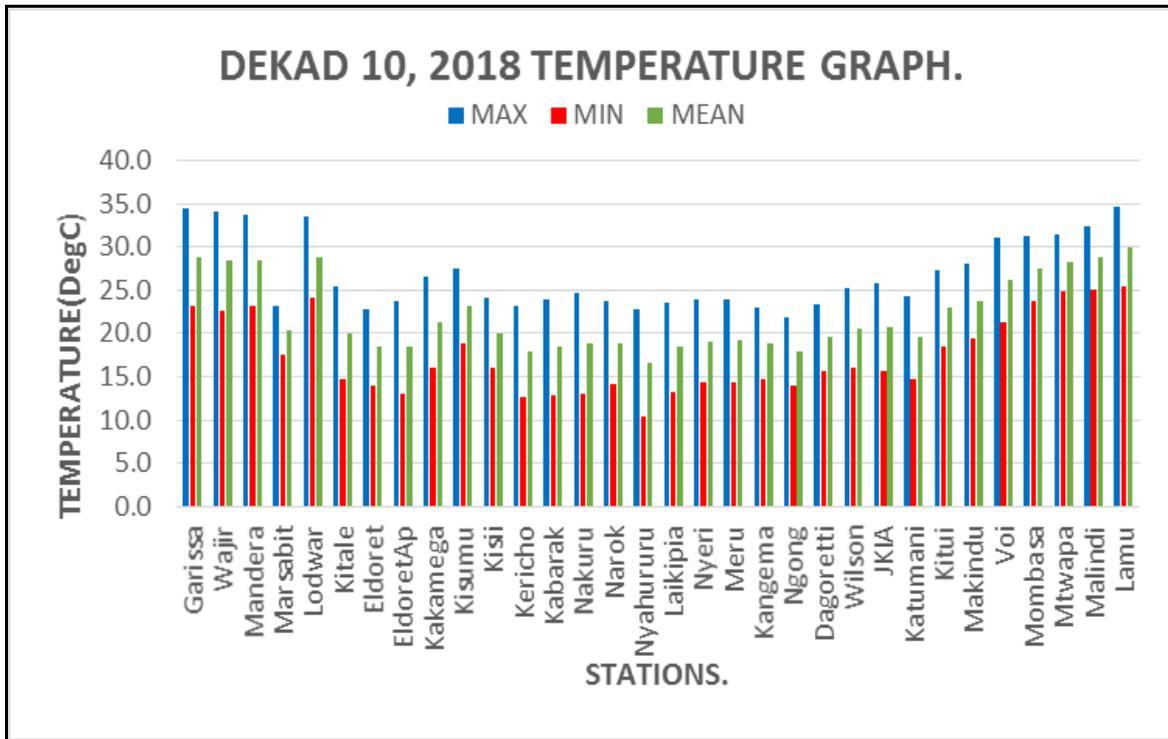


Figure 3.3: Maximum, Minimum and Average temperature for Dekad 10, 2018

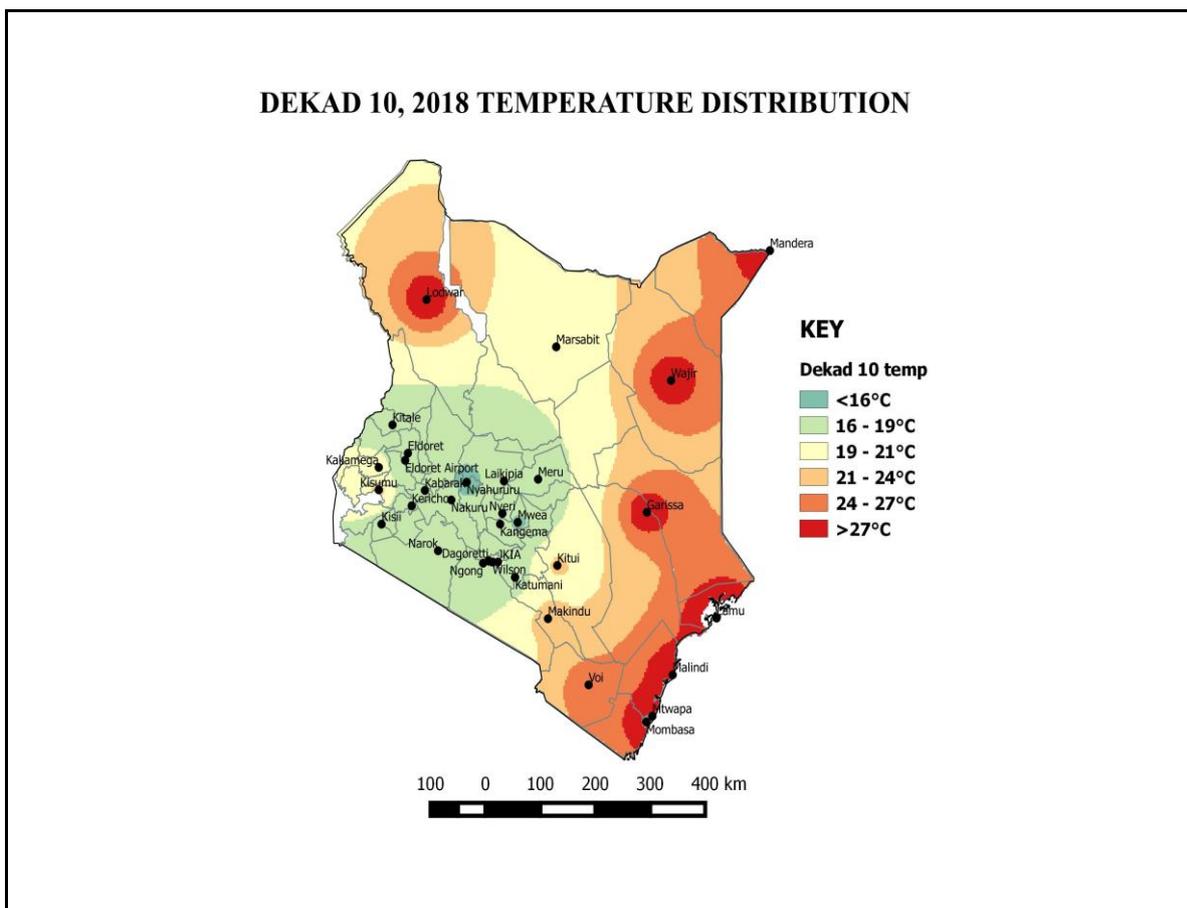


Figure 3.4: Mean temperature distribution for Dekad 10, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11TH – 20TH APRIL 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), Mornings are expected to experience rains over several places on the first day of the forecast period, reducing to few places for the following three days, followed by sunny intervals thereafter.

Afternoons/Evenings are expected to experience mainly showers and thunderstorms over several places throughout the forecast period.

The showers and rains will continue to benefit the crops that are in emergence stage in places like Kisumu, Kisii, and Kakamega etc.

The Northwestern counties (Turkana, West Pokot and Samburu), Mornings are expected to experience rains over few places and afternoon 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.

The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga), are expected to experience cloudy mornings with light rains over few places giving way to sunny intervals for much of the forecast period. Afternoons are expected to experience showers over several places for the first two days of the forecast period, reducing to few places for the following four days, increasing to several places on the 7th to 9th days and reducing to few places thereafter.

The rains and showers will be very beneficial to the crops that are in emergence stage in places like Kabete, Thika, Embu, Nyeri 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 except on 8th and 9th days where rains will increase to several places. Afternoons are expected to experience mainly showers over few places throughout the forecast period except on 8th and 9th days where the showers and thunderstorms will increase to several places.

The showers and rains will continue to have a positive impact to the pasture for the animals kept in this region.

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui) Mornings are expected to experience rains over few places for the first three days of the forecast period; followed by sunny intervals thereafter. Afternoons are expected to experience showers over several places for the first two days, reducing to few places thereafter.

The rains and showers will continue to replenish the vegetation and pasture for the animals and benefit the crops that are at emergence stage in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) Mornings are expected to experience mainly showers over few places for most of the forecast period. Afternoons are expected to experience mainly showers over few places for most of the forecast period.

The showers and rains are of great benefit to the flowering Mangoes in places like Mtwapa.

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