



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 26, 11TH–20TH SEPTEMBER, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities have decreased both in intensity and in spatial distribution countrywide. Western region received the highest rainfall amount of 59.7 mm at Matungu station. Kericho station in the Riftvalley region recorded the highest rainfall amount of 46.4 mm. Nyanza region reported the highest rainfall amount of 31.8 mm at Kisii station. The Coastal region received the highest rainfall amount of 25.6 mm at Mombasa station. Nairobi region received the highest rainfall amount of 4.2 mm at Wilson Airport station. Central region recorded the highest rainfall amount of 3.8 mm at Kangema station. Garissa station in the North Eastern Region reported the highest rainfall amount of 3.2 mm. Meru station in the Eastern region reported the highest rainfall amount of 0.01 mm.

Maximum and Minimum temperatures continued to increase and decrease respectively in most stations. The highest Maximum temperature of 36.6⁰C was recorded at Mandera station in North-Eastern region compared to 35.7⁰C reported at Lodwar station in the same region in the previous dekad.

Nyahururu station in Central region continued to report the lowest Minimum temperature of 4.9⁰C compared to 5.9⁰C recorded 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 26, 11TH – 20TH SEPTEMBER, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 45.3 mm of rainfall. The Mean air temperature reported was 21.2⁰C. There was no report on total Pan Evaporation and sunshine parameters.

Beans were at emergence stage and in good state.

2.1.2 Kisii

The station reported total rainfall amount of 31.8mm. The Mean air temperature recorded was 21.5⁰C. The Total Pan Evaporation recorded was 39.3mm and there was no sunshine parameter

Both Maize and Beans are at emergence stage and in good state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station recorded 4.0 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 18.9°C and 37.4 mm respectively.

Maize was at maturity stage, in good state and the expected yield is normal.

2.2.2 Eldoret - Kapsoya

The station recorded 2.0 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 16.6°C and 57.5 mm respectively.

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

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 1.0 mm of rainfall. The Mean air temperature recorded was 18.3°C. Sunshine duration was 9.1 hrs/day.

Most farmers have completed harvesting their maize and are now preparing the land in readiness for the short rains season.

2.3.2 Kabete

The station reported dry conditions. The Total Pan Evaporation reported was 49.0 mm and there was no report on mean air temperature and sunshine duration.

Farmers have already prepared their land waiting to plant in the short rains seasons.

2.3.3 Nyahururu

The station reported dry conditions. The mean air temperature recorded was 14.2°C. There was no report on Pan Evaporation and sunshine parameters.

Maize was still at flowering stage and in good state hence the expected yield is above normal

2.3.4 Dagoretti

The station recorded 0.01 mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 19.1°C and 38.6mm respectively.

No Phenological report.

2.3.5 Thika

The station reported dry conditions; The Total Pan Evaporation reported was 53.5 mm. There was no report on Mean Air Temperature

Farmers are preparing their land for planting in the next short rain season.

2.4 EASTERN REGION

2.4.1 Embu

The station reported dry conditions. The Total Pan Evaporation recorded was 49.0 mm. There was no report on Mean Air Temperature.

Most farmers have finished harvesting their maize.

2.4.2 Meru

The station reported dry conditions. The mean air temperature recorded was 19.2°C. There was no report on sunshine duration and total pan evaporation.

Farmers are preparing their land for the next planting season.

2.4.3 Katumani (Machakos)

The station reported dry conditions. The Total Pan Evaporation recorded was 62.5 mm and there was no mean air temperature.

Land preparation is underway.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 6.9 mm of rainfall. Total Pan Evaporation recorded was 43.4 mm. There was no report on Mean Air Temperature.

Maize harvesting is complete.

2.5.2 Mtwapa

The station received 8.8 mm of rainfall. The Mean Air temperature and Total Pan Evaporation reported were 26.1 °C and 55.3 mm respectively.

Maize was at harvesting stage and in fair state, though it had been affected by Army worms and stalk borer, but still the expected yield is normal. Mangoes were at maturity stage and in fair state hence expected yield is normal.

2.5.3 Lamu

The station recorded 17.5 mm of rainfall. The Mean air temperature recorded was 27.4 °C. There was no report on Total Pan Evaporation.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

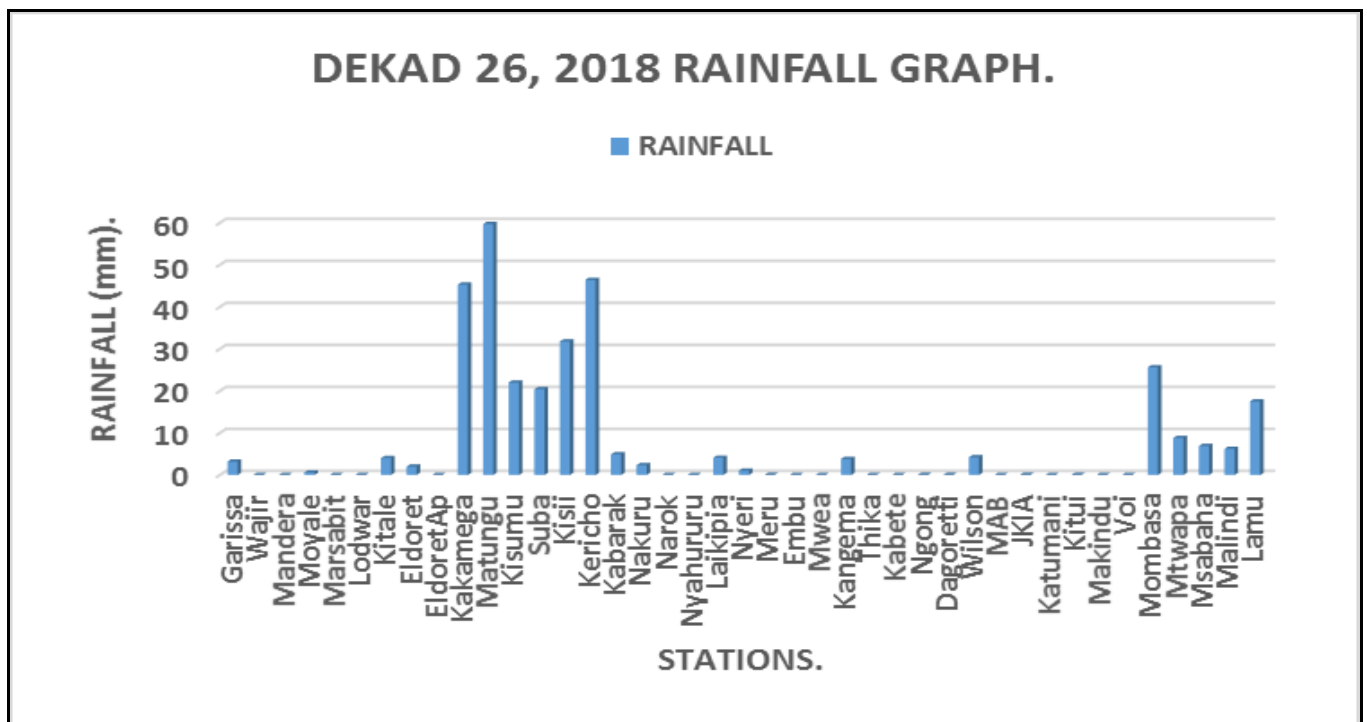


Figure 3.1: Dekadal rainfall totals for dekad 26, 2018.

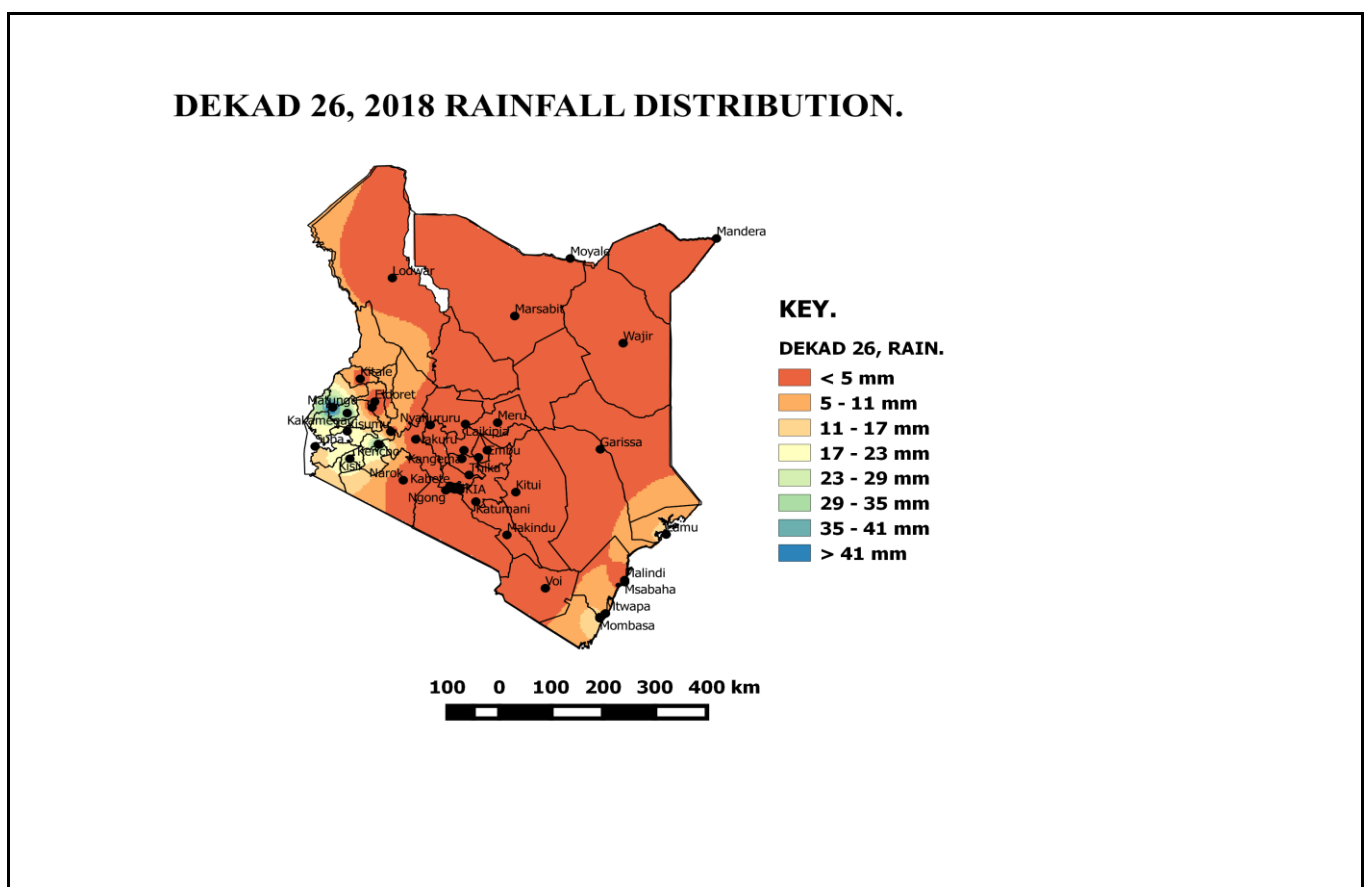


Figure 3.2: Dekadal rainfall distribution for dekad 26, 2018.

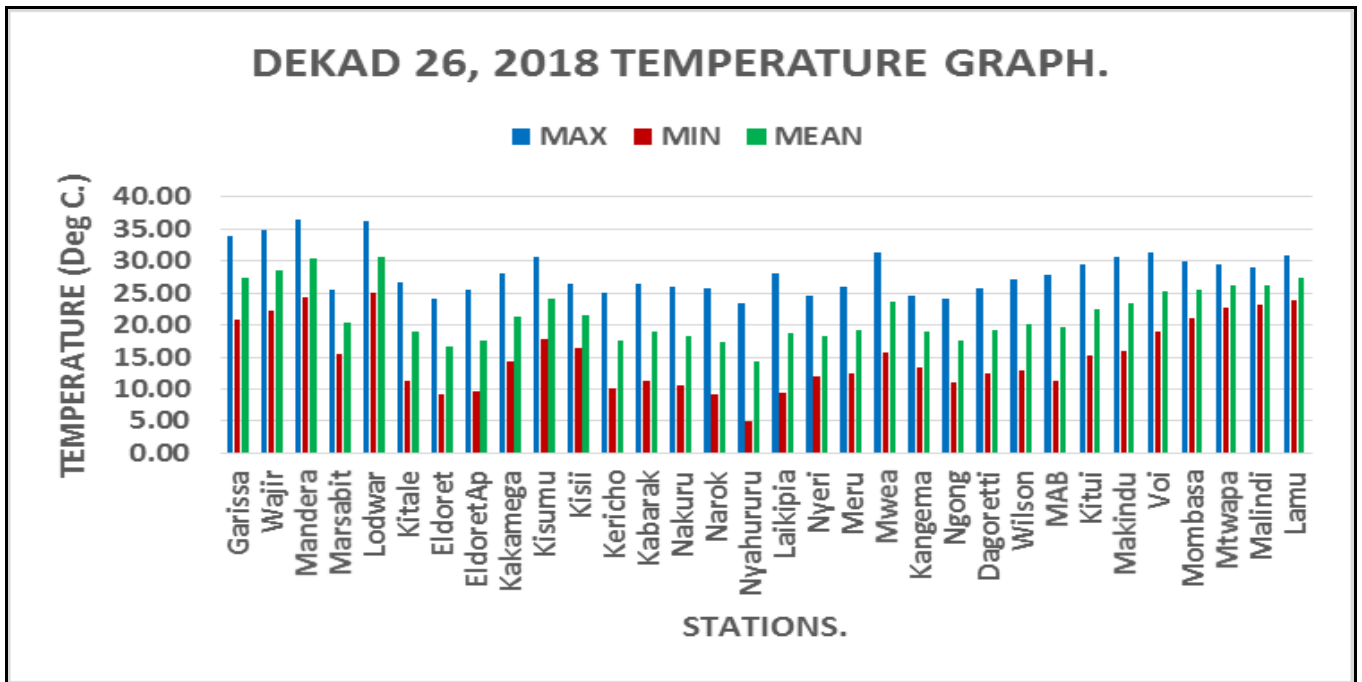


Figure 3.3: Maximum, Minimum and Average temperature for dekad 26, 2018.

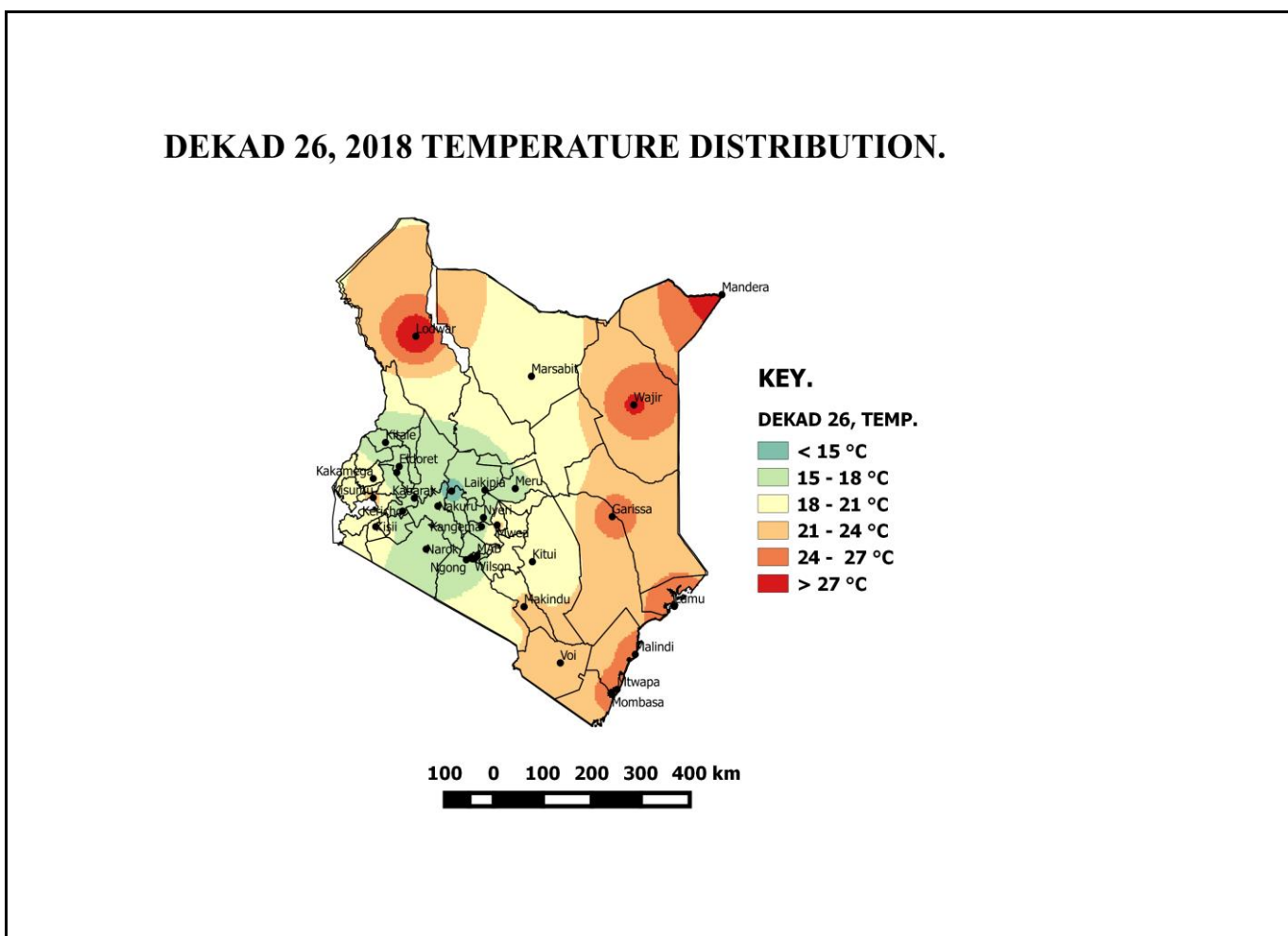


Figure 3.4: Mean temperature distribution for dekad 26, 2018.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS: 21ST – 30TH SEPTEMBER 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 sunny intervals throughout the forecast period.

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

The showers will benefit the crops that are in emergence stage in places like Kakamega, Kisii, Eldoret and Kitale.

The Northwestern counties (Turkana, West Pokot and Samburu), are expected to experience sunny intervals the entire day throughout the forecast period.

The sunny conditions will continue to have adverse effects on the 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 cloudiness breaking into sunny intervals except on the seventh day when there will be occasional light rains. Afternoons are expected to experience showers over few places throughout the forecast period.

The Showers will benefit the maize that is at flowering stage in Nyahururu.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience sunny intervals the entire day throughout the forecast period except on the seventh and eighth day when there will be showers over few places in the afternoon.

The showers will benefit the pasture for the animals kept in this region.

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui), are expected to experience sunny intervals during the forecast period except on the seventh and eighth day when there will be rains over a few places in the morning and showers over few places in the afternoon.

The wet conditions will have a positive effect on the vegetation for the animals kept in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience mainly showers over few places the entire day throughout the forecast period.

The showers will benefit the fruits planted in this area.

For feedback or further guidance, Contact:

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