



KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 25 1ST–10TH SEPTEMBER, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Countrywide, rainfall activities decreased drastically and increased slightly in intensity and in spatial distribution respectively. Nakuru station in the Rift Valley region reported the highest rainfall amount of 57.5 mm compared to 129.9mm recorded at Kakamega Station in the Western region in the previous dekad. Nyanza region received the highest rainfall amount of 44.7 mm at Kisii station. Kakamega station in the Western Region reported the highest rainfall amount of 37.9 mm. Central region recorded the highest rainfall amount of 25.7 mm at Kangema station. Eastern region received the highest rainfall amount of 24.5 mm at Mwea station. Msabaha station in the Coastal region recorded the highest rainfall amount of 23.3 mm. North Eastern region reported the highest rainfall amount of 9.5 mm at Moyale station. Jomo Kenyatta International Airport in Nairobi region received the highest rainfall amount of 2.0 mm.

Maximum and Minimum temperatures increased and decreased respectively in most stations. The highest temperature of 35.7⁰C was recorded at Lodwar station in North-Eastern region compared to 34.1⁰C reported at the same station in the same region in the previous dekad.

Nyahururu station in Central region continued to report the lowest temperature of 5.9⁰C compared to 9.5⁰C 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 25 1ST–10TH SEPTEMBER, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 37.9 mm of rainfall. The Mean air temperature reported was 21.0⁰C. There was no report on total Pan Evaporation and sunshine parameters.

Beans were at emergence stage and in fair state.

2.1.2 Kisii

The station reported total rainfall amount of 44.7 mm. The Mean air temperature recorded was 20.6⁰C. The Total Pan Evaporation recorded was 37.7 mm and there was no sunshine parameter.

Farmers are preparing their farms in readiness for the next planting season.

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station recorded 1.7 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 18.6°C and 26.4 mm respectively.

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

2.2.2 Eldoret - Kapsoya

The station recorded 4.6 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 16.6°C and 44.1 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 14.5 mm of rainfall. The Mean air temperature recorded was 17.8°C. Sunshine duration was 6.5 hrs/day.

Maize was at harvesting stage and in fair state; hence the expected yield is normal.

2.3.2 Kabete

The station reported 1.4 mm of rainfall. The Total Pan Evaporation reported was 24.6 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 season.

2.3.3 Nyahururu

The station received 7.3 mm of rainfall. The mean air temperature recorded was 13.7°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 normal.

2.3.4 Dagoretti

The station recorded 0.51 mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 17.1°C and 34.0 mm respectively.

No Phenological report.

2.3.5 Thika

The station reported dry conditions; the Total Pan Evaporation reported was 35.0 mm and 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 received 16.0 mm of rainfall. Total Pan Evaporation recorded was 33.0 mm. There was no report on Mean Air Temperature.

Most farmers have finished harvesting their maize.

2.4.2 Meru

The station reported 20.4 mm of rainfall. The mean air temperature and the Total Pan Evaporation recorded were 18.6°C and 42.9 mm respectively. There was no report on sunshine duration.

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 39.5 mm and there was no mean air temperature.

Maize harvesting is complete.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 23.3 mm of rainfall. Total Pan Evaporation recorded was 40.3mm. There was no report on Mean Air Temperature.

Maize harvesting is complete.

2.5.2 Mtwapa

The station received 16.3 mm of rainfall. The Mean Air temperature and Total Pan Evaporation reported were 26.2 °C and 49.8 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 12.1 mm of rainfall. The Mean air temperature recorded was 27.1 °C. There was no report on Total Pan Evaporation.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

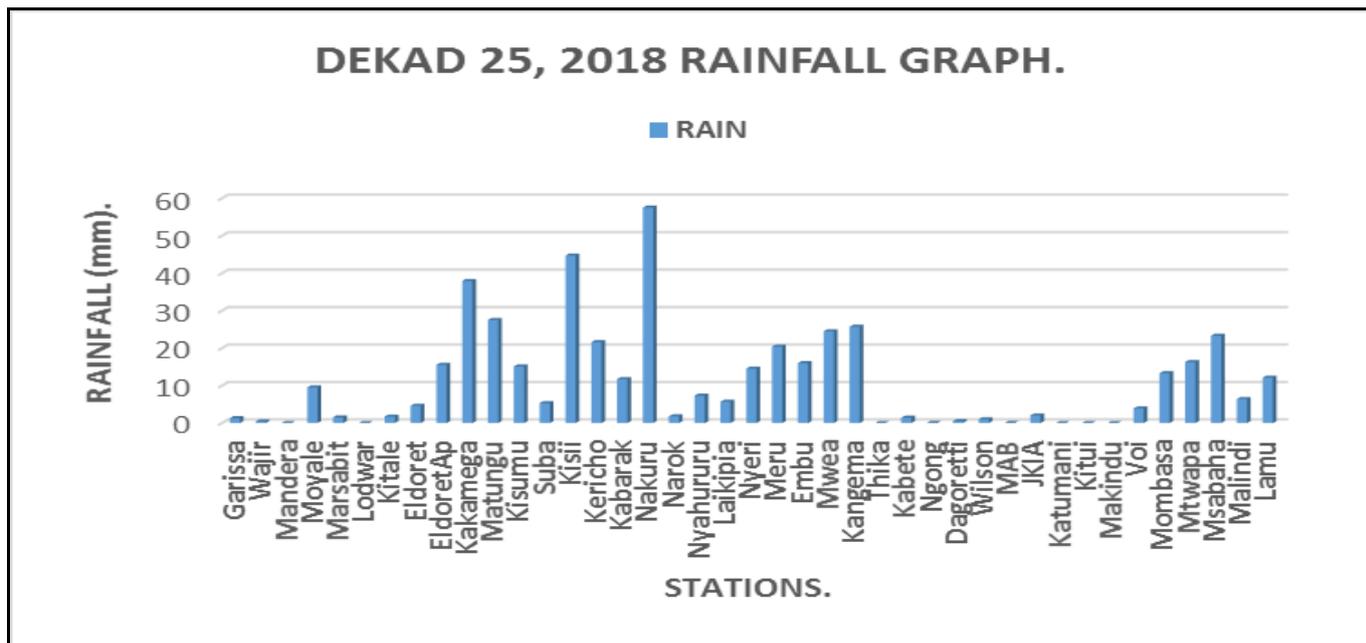


Figure 3.1: Dekadal rainfall totals for dekad 25, 2018.

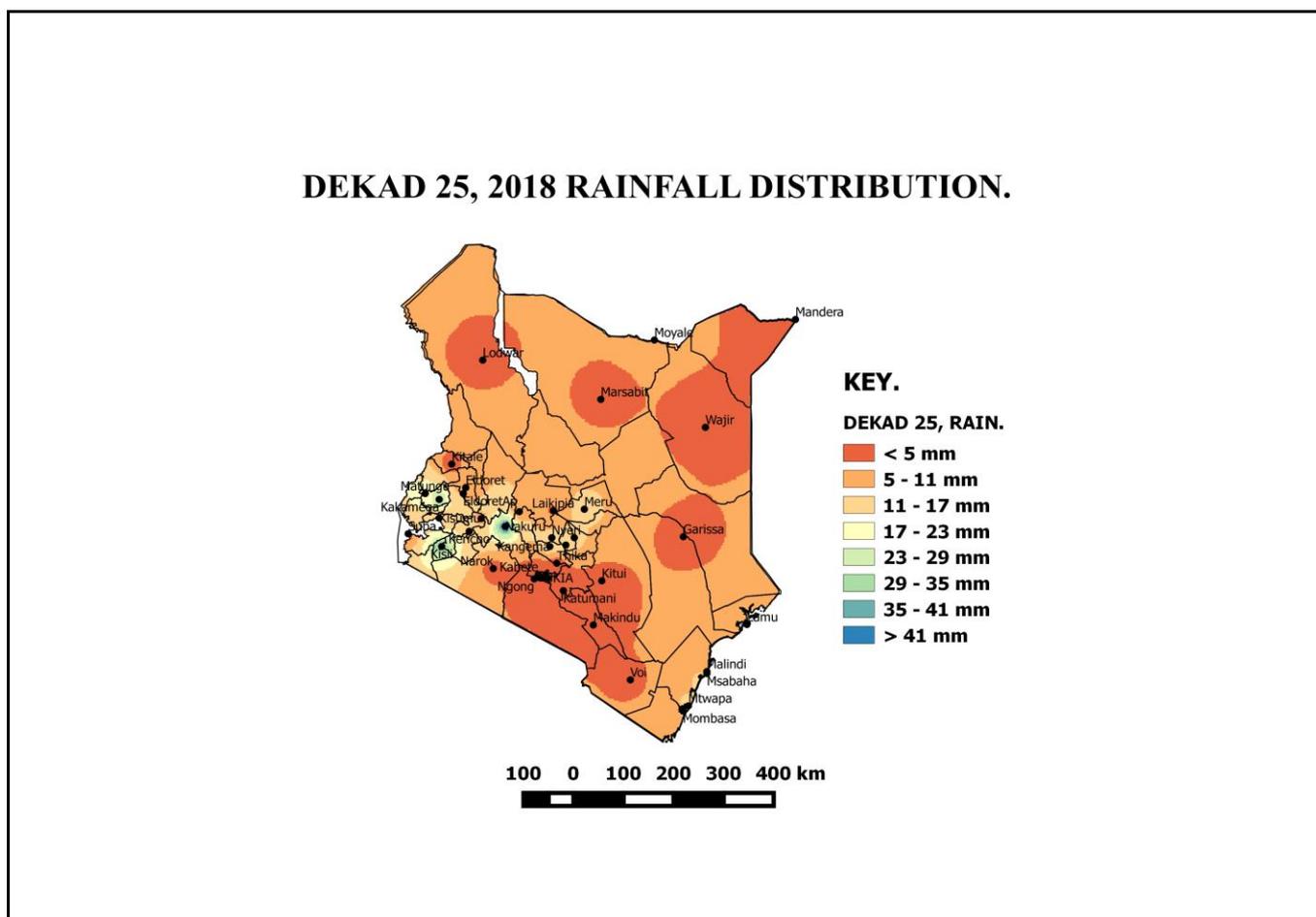


Figure 3.2: Dekadal rainfall distribution for dekad 25, 2018.

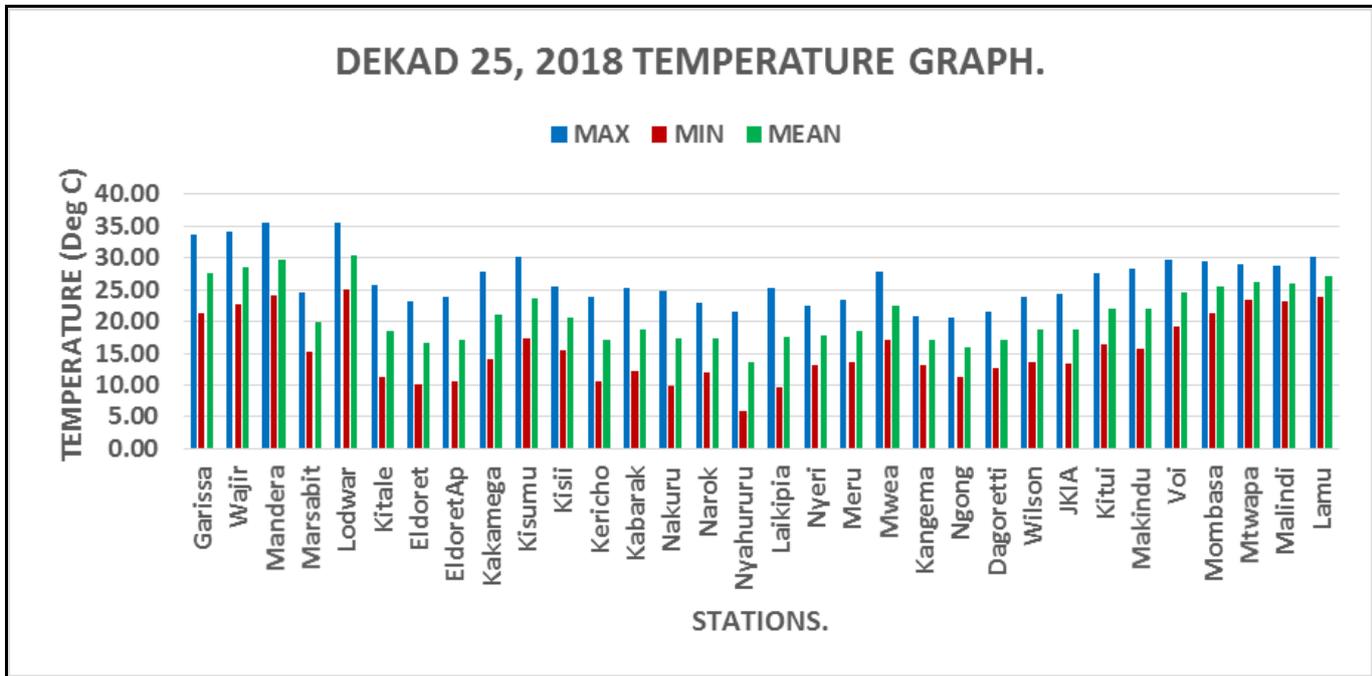


Figure 3.3: Maximum, Minimum and Average temperature for dekad 25, 2018.

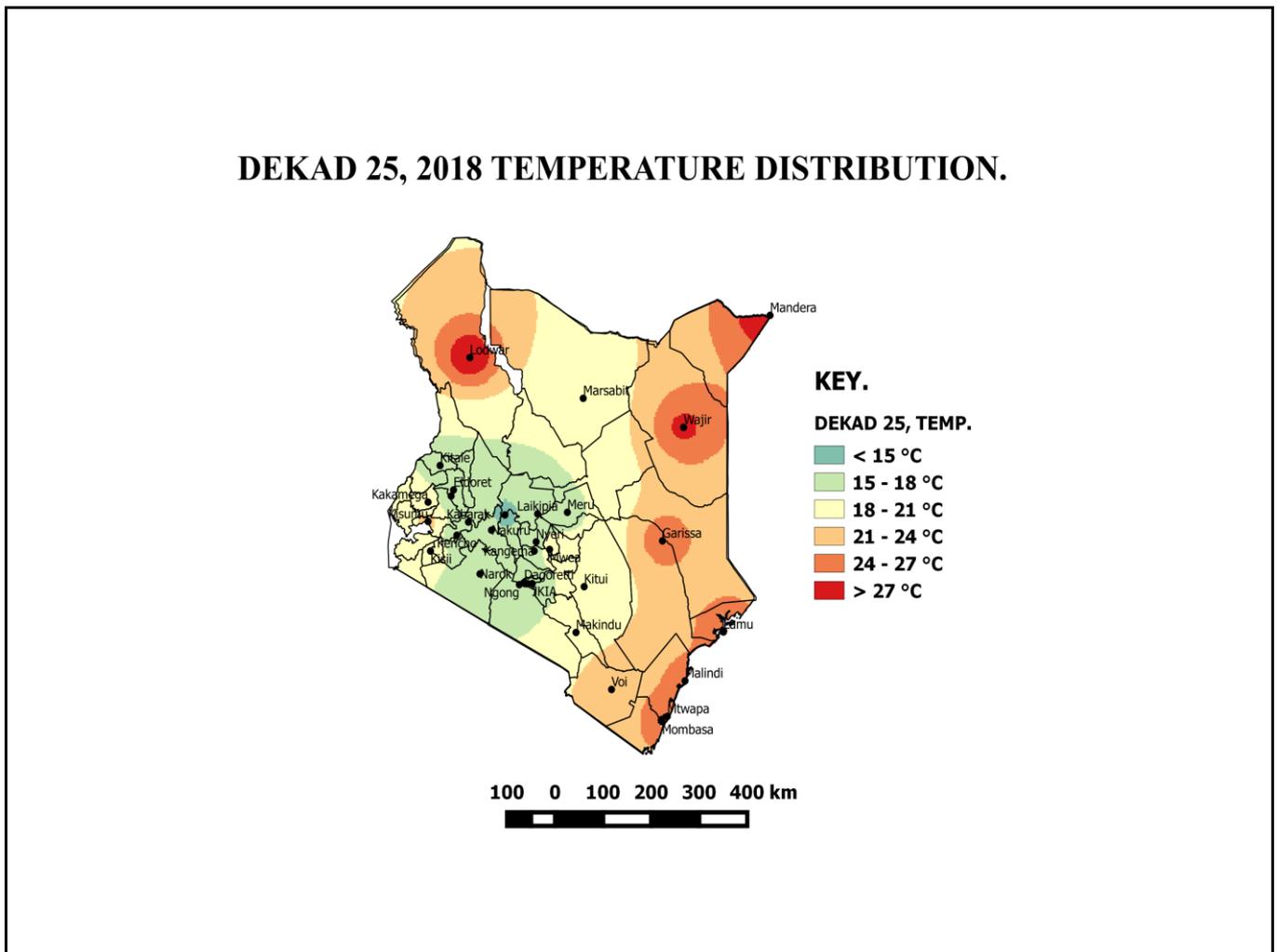


Figure 3.4: Mean temperature distribution for dekad 25, 2018.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11TH – 20TH 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 and maturity stages in places like Kakamega, Kitale and Eldoret.

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

The sunny conditions continue to have negative effect 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), are expected to experience morning cloudiness breaking into sunny intervals the rest of the day throughout the forecast period.

The sunny conditions are beneficial to the farmers preparing their land for the next planting season.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience sunny intervals the entire day throughout the forecast period.

The sunny conditions will continue to have a negative impact on the vegetation for the animals kept in this region.

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui), are expected to experience sunny intervals the entire day throughout the forecast period except on the 4th day when there is a possibility of showers over a few places in the afternoon.

The showers 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 sunny intervals the entire day throughout the forecast period except on the 3rd and 4th day when there is a possibility of showers over few places throughout the day.

The sunny intervals will enhance the drying of maize in Mtwapa.

For feedback or further guidance, Contact:

Director,
Kenya Meteorological Department,
Agro meteorological Advisory Services Division,
Dagoretti Corner, Ngong Road,
P.O. Box 30259, 00100 GPO, Nairobi
Tel: +254 (0)20 3867880-7/3876957/3873682;
Fax: +254 (0)20 3876955
E-mail: agromet@meteo.go.ke;
Website: www.meteo.go.ke

©2018 Kenya Meteorological Department