



KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 24 21ST–31ST AUGUST, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased in intensity and maintained in spatial distribution countrywide. Kakamega station in Western region received the highest rainfall amount of 129.9 mm compared to 87.8 mm reported at Kitale station in the Rift Valley region in the previous dekad. The second highest rainfall amount of 123.1 mm was recorded at Eldoret Airport station in the Rift Valley region. Nyanza region received the highest rainfall amount of 109.9 mm at Kisii station. Nyahururu station in Central region recorded the highest rainfall amount of 76.0 mm. Nairobi region reported the highest rainfall amount of 50.7 mm at Jomo Kenyatta International Airport. Coast region recorded the highest rainfall amount of 40.2 mm at Msabaha station. Embu station in Eastern region received the highest rainfall amount of 4.6 mm; while North Eastern region reported the highest rainfall amount of 0.03 mm at Lodwar station.

Maximum temperature increased in most stations; while Minimum temperatures were still on an increasing trend. Lodwar station in North-Eastern region continued to record the highest temperature of 34.1⁰C.

Nyahururu station in Central region continued to report the lowest temperature of 9.5⁰C compared to 6.3⁰C 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 24 21ST–31ST AUGUST, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 129.9mm of rainfall. The Mean air temperature reported was 21.1⁰C. There was no report on Total Pan Evaporation and sunshine parameters.

Maize harvesting is over.

2.1.2 Kisii

The station reported total rainfall amount of 109.9 mm. The Mean air temperature and the Total pan evaporation recorded were 19.7⁰C and 36.8mm respectively.

Land preparation is underway.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded 61.8mm of rainfall. The Mean air temperature and Total pan Evaporation recorded were 19.3°C and 36.8 mm respectively.

Maize was at maturity stage and in good state; hence normal yield is expected.

2.2.2 Eldoret - Kapsoya

The station recorded 69.9 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 16.9°C and 28.9 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 1.5 mm of rainfall. The Mean air temperature recorded was 16.3°C. Sunshine duration was 2.3hrs/day.

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

2.3.2 Kabete

The station received 1.1mm of rainfall. The Total Pan Evaporation reported was 29.4 mm and there was no report on mean air temperature and sunshine duration.

Land preparation is underway.

2.3.3 Nyahururu

The station received 76.0 mm of rainfall. The mean air temperature recorded was 14.9°C. There was no report on Pan Evaporation parameter.

Maize is at flowering stage and in good state hence above normal yield is expected.

2.3.4 Dagoretti

The station recorded 8.7mm of rainfall. The Mean air temperature and the Total Pan Evaporation reported were 17.0°C and 27.7 mm respectively.

No Phenological report.

2.3.5 Thika

The station reported 0.01 mm of rainfall. The Total Pan Evaporation reported was 26.5 mm and there was no report on Mean air temperature.

Land preparation is underway.

2.4 EASTERN REGION

2.4.1 Embu

The station received 4.6 mm of rainfall. The Total Pan Evaporation recorded was 21.9 mm. There was no report on Mean Air Temperature.

Maize harvesting ongoing.

2.4.2 Meru

The station reported 2.7 mm of rainfall. The mean air temperature recorded was 17.8⁰C. There was no report on sunshine duration and Pan Evaporation parameter.

Maize harvesting is complete.

2.4.3 Katumani (Machakos)

The station reported dry conditions. The mean air temperature and Total Pan Evaporation recorded were 15.9.0⁰C and 31.5 mm respectively.

Harvesting of maize is complete.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 40.2 mm of rainfall. The Total Pan Evaporation recorded was 41.7mm. There was no report on mean Air Temperature.

Farmers are still harvesting maize and the expected yield is normal. The mangoes are at flowering stage.

2.5.2 Mtwapa

The station received 18.9 mm of rainfall. The mean air temperature and Total Pan Evaporation reported were 24.9 °C and 48.9 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 28.3 mm of rainfall. The Mean air temperature recorded was 26.4 °C. There was no report on Total Pan Evaporation.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

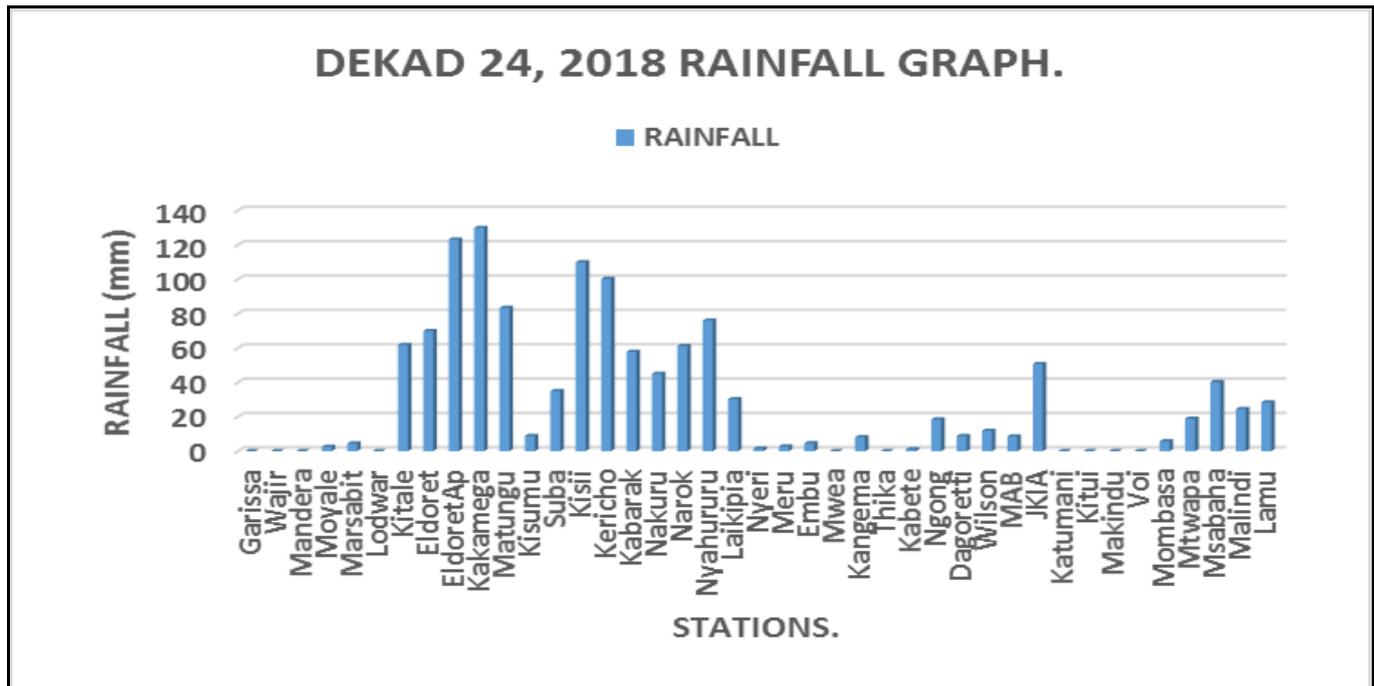


Figure 3.1: Dekadal rainfall totals for dekad 24, 2018.

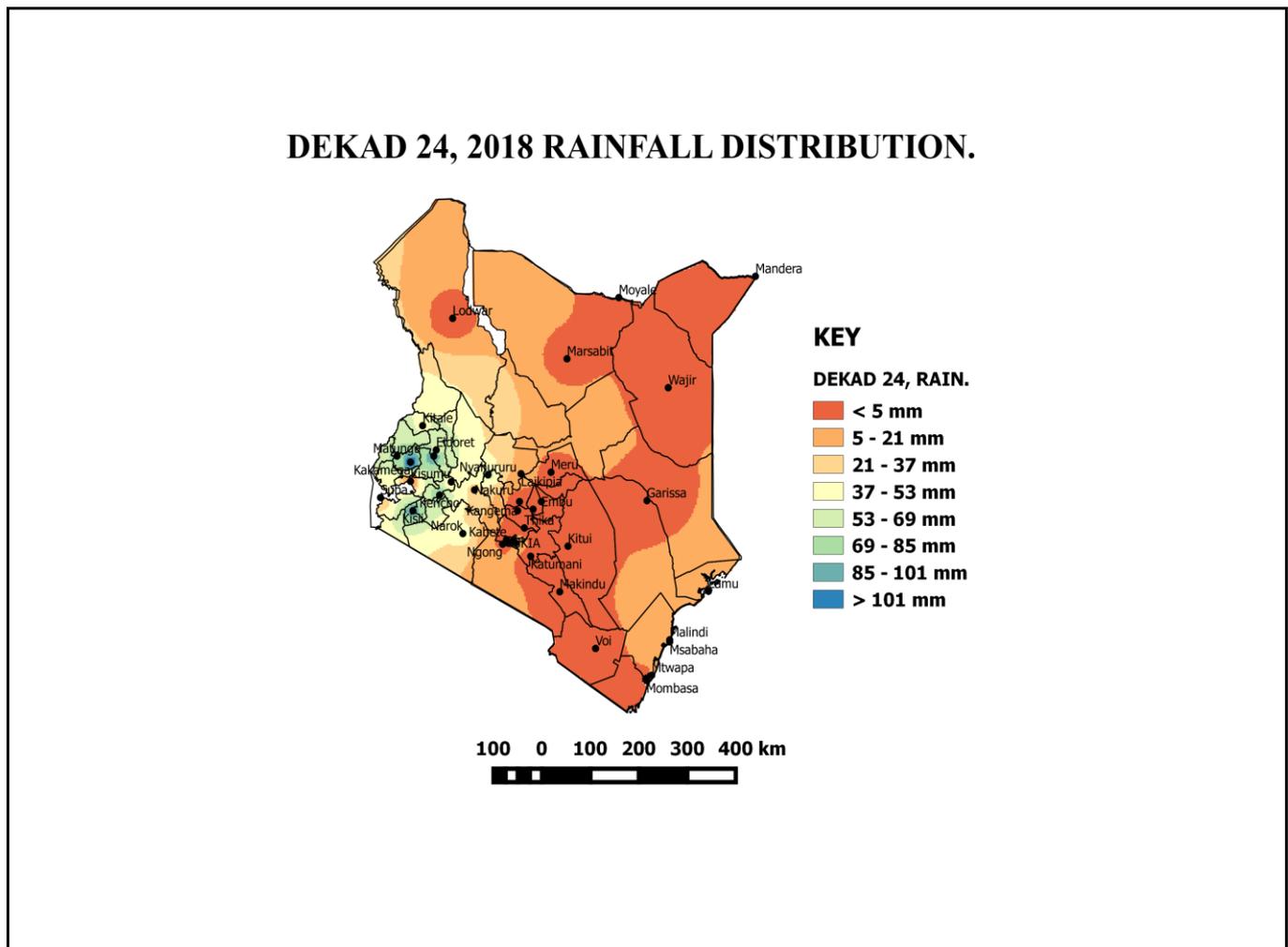


Figure 3.2: Dekadal rainfall distribution for dekad 24, 2018.

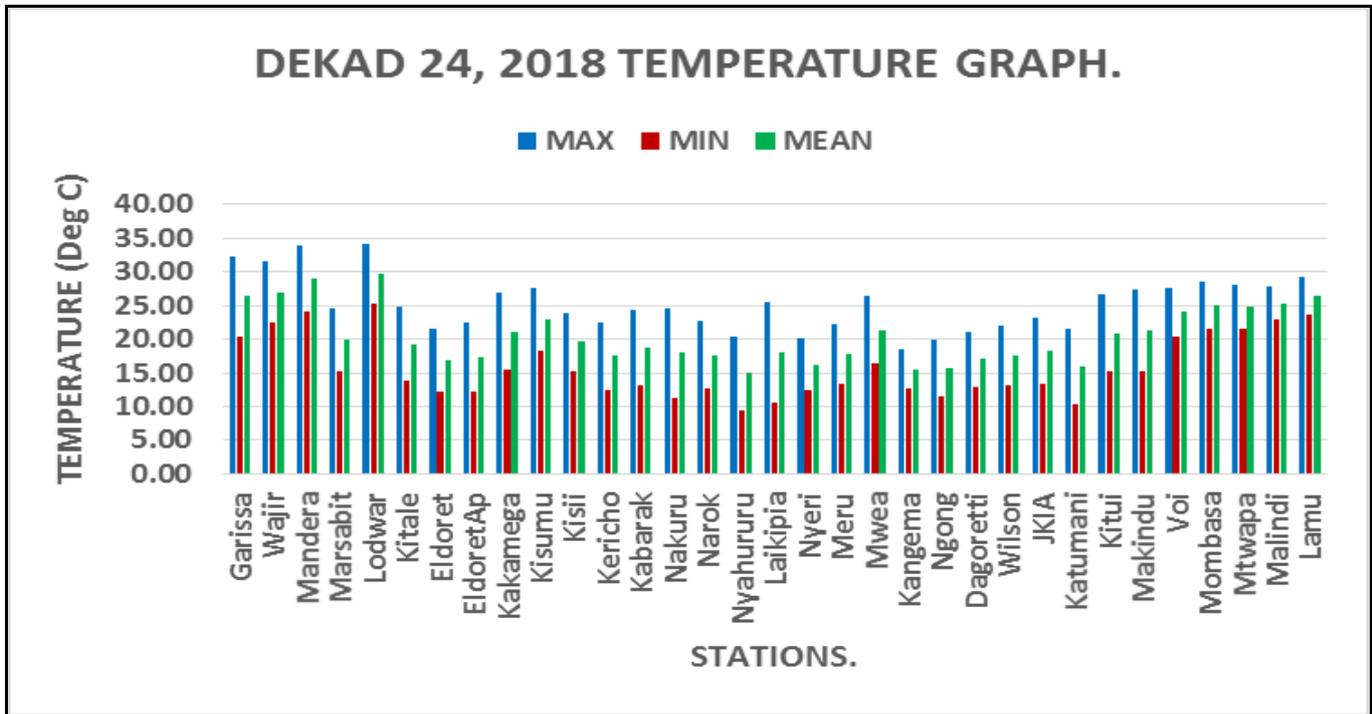


Figure 3.3: Maximum, Minimum and Average temperature for dekad 24, 2018.

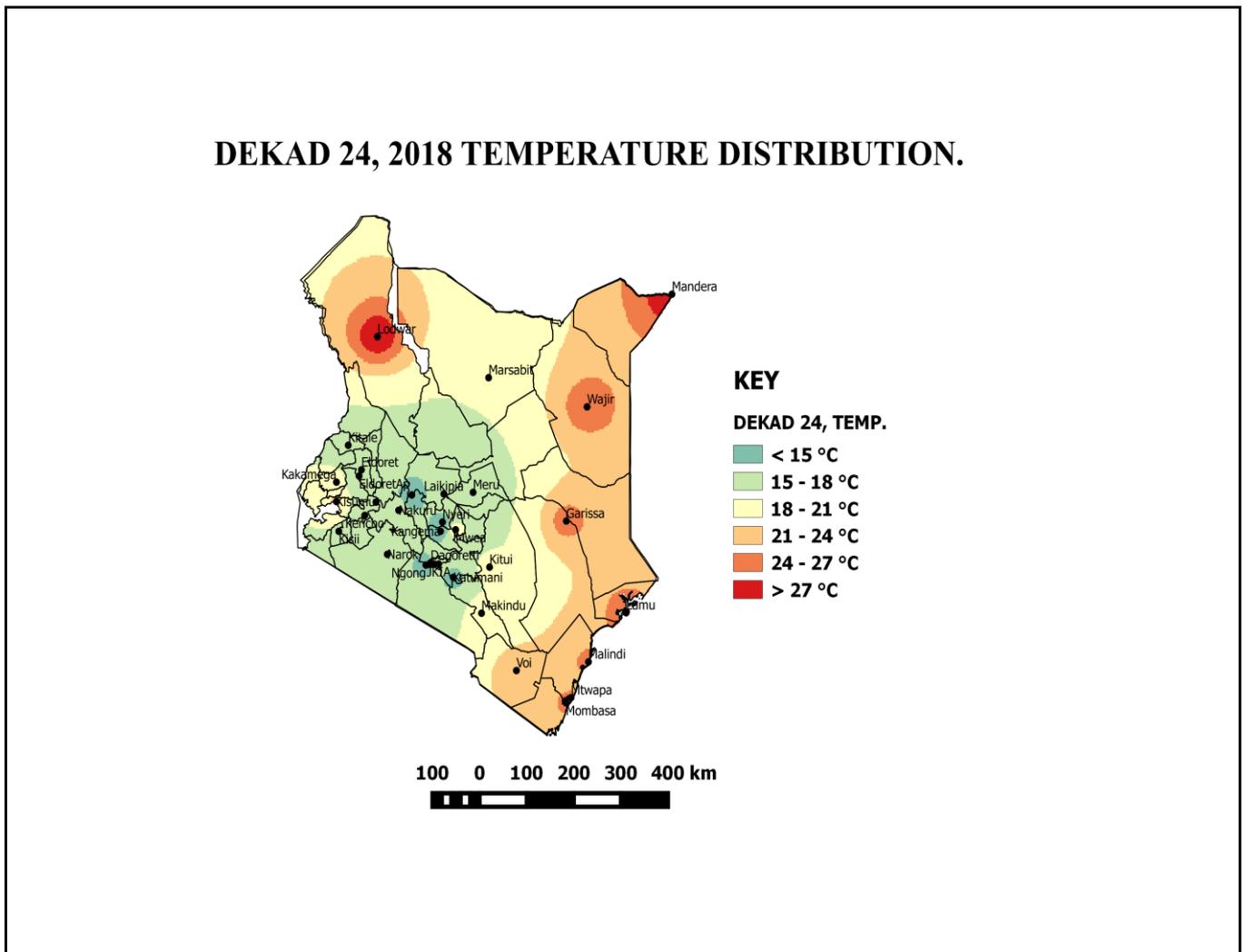


Figure 3.4: Mean temperature distribution for dekad 24, 2018.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST – 10TH 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 mainly 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 continue to benefit the maize that is in maturity stage in places like 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 continue to have an adverse 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), mornings are expected to experience cloudiness giving way to sunny intervals throughout the forecast period.

Afternoons are expected to experience mainly sunny intervals throughout the forecast period except on the fifth day when there is a possibility of showers over few places on high-ground areas.

The showers will benefit the crops that are in flowering and maturity stages in places like Nyahururu and Nyeri.

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 mainly sunny intervals the entire day throughout the forecast period except on the eighth day when there is a possibility of showers over few places.

The dry conditions will continue to have an adverse effect on the pasture for the animals kept in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience a possibility of showers over few places the entire day throughout the forecast period except on the fifth and seventh day when there will be sunny intervals in the afternoon.

The sunny intervals will enhance the drying of maize in places like Msabaha and Mtwapa.

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