



KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 23 11TH–20TH AUGUST, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased drastically both in intensity and in spatial distribution countrywide. Rift Valley region received the highest rainfall amount of 87.8 mm at Kitale station compared to 37.1 mm of rainfall reported at Kericho station in the same region in the previous dekad. The second highest rainfall amount of 74.4 mm recorded at Kakamega station in the Western region. The highest rainfall amount of 56.6 mm was received at Nyahururu station in Central region. Coast region received the highest rainfall amount of 26.7 mm at Mombasa station. Kisii station in Nyanza region recorded the highest rainfall amount of 25.6 mm. Eastern region received the highest rainfall amount 12.5 mm at Embu station. North Eastern region reported 2.7 mm of rainfall at Marsabit station; while Nairobi region reported 0.14mm at Dagoretti station.

Maximum and Minimum temperatures decreased and increased drastically respectively in most stations. The highest temperature of 34.2⁰C was recorded at Lodwar station in North-Eastern region compared to 35.1⁰C reported at Mandera station in the same region in the previous dekad. Nyahururu station in Central region continued to report the lowest temperature of 6.3⁰C compared to 4.6⁰C 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 23 11TH–20TH AUGUST, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 74.4mm of rainfall. The Mean air temperature reported was 21.3⁰C. 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 25.6 mm. The Mean air temperature recorded was 20.4⁰C. There was no report on total Pan Evaporation

Maize was at harvest stage and in good state, hence normal yield is expected.

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station recorded 87.8mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 18.9°C and 39.3 mm respectively.

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

2.2.2 Eldoret - Kapsoya

The station recorded 39.0 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 16.4°C and 37.0 mm respectively.

Maize was at flowering 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 4.0 mm of rainfall. The Mean air temperature recorded was 15.5°C. Sunshine duration was 3.6hrs/day.

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

2.3.2 Kabete

The station reported dry conditions. The total Pan Evaporation reported was 22.0 mm and there was no report on mean air temperature and sunshine duration.

Maize harvesting is over.

2.3.3 Nyahururu

The station received 56.6 mm of rainfall. The mean air temperature recorded was 13.4°C. There was no report on Pan Evaporation parameter.

Maize was still at flowering stage and in fair state hence the expected yield is normal.

2.3.4 Dagoretti

The station recorded 0.14mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 15.7°C and 26.1 mm respectively.

No Phenological report.

2.3.5 Thika

The station reported dry conditions; the total Pan Evaporation reported was 20.5 mm and there was no report on Mean air temperature.

Maize harvesting is complete.

2.4 EASTERN REGION

2.4.1 Embu

The station received 12.5 mm of rainfall. Total Pan Evaporation recorded was 20.0 mm. There was no report on Mean Air Temperature.

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

2.4.2 Meru

The station reported 0.1 mm of rainfall. The mean air temperature and the total Pan Evaporation recorded were 16.9⁰C and 31.6 mm respectively. There was no report on sunshine duration.

Maize harvesting is complete.

2.4.3 Katumani (Machakos)

The station recorded 1.0 mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 16.0⁰C and 27.5 mm respectively.

Maize was still at harvesting stage and in good state, hence the expected yield is normal.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 14.8 mm of rainfall. Total Pan Evaporation recorded was 45.3mm. There was no report on mean Air Temperature.

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

2.5.2 Mtwapa

The station received 19.0 mm of rainfall. The mean air temperature and total Pan Evaporation reported were 25.4 °C and 44.5 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 25.3 mm of rainfall. The Mean air temperature recorded was 26.4 °C. There was no report on total Pan Evaporation.

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

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

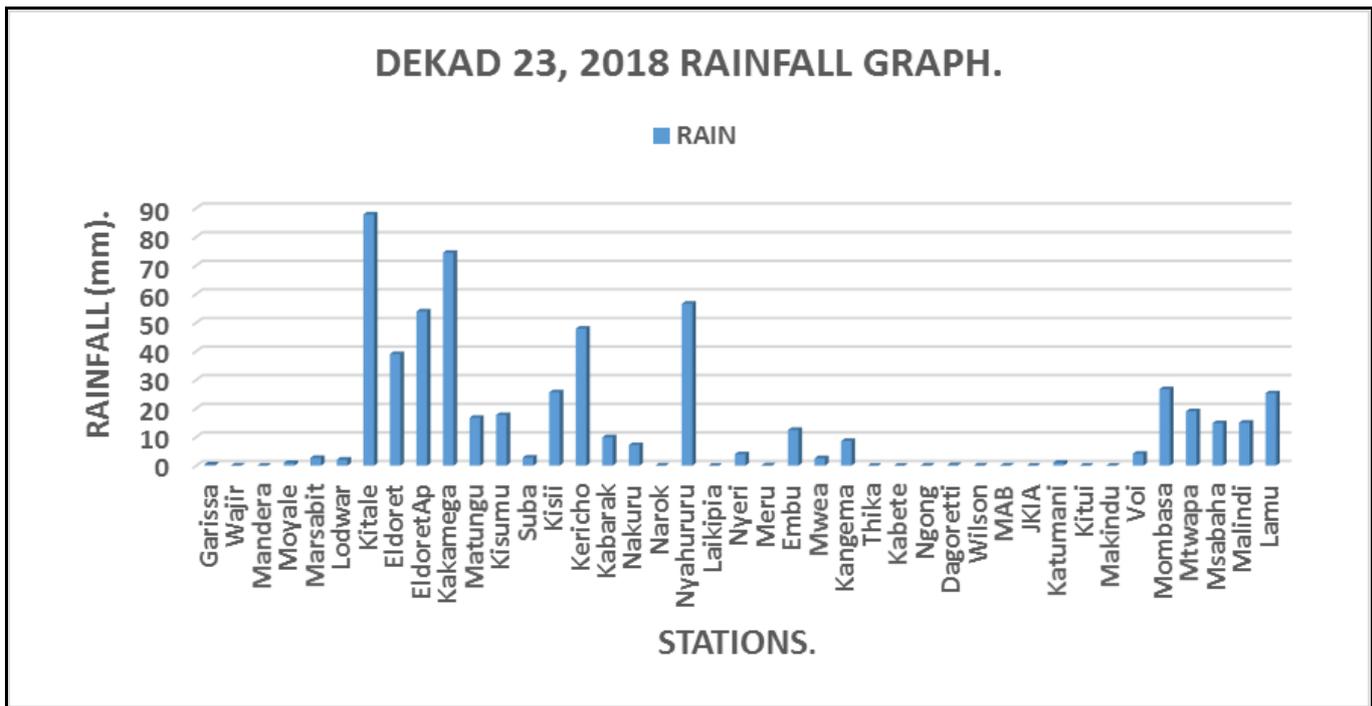


Figure 3.1: Dekadal rainfall totals for dekad 23, 2018.

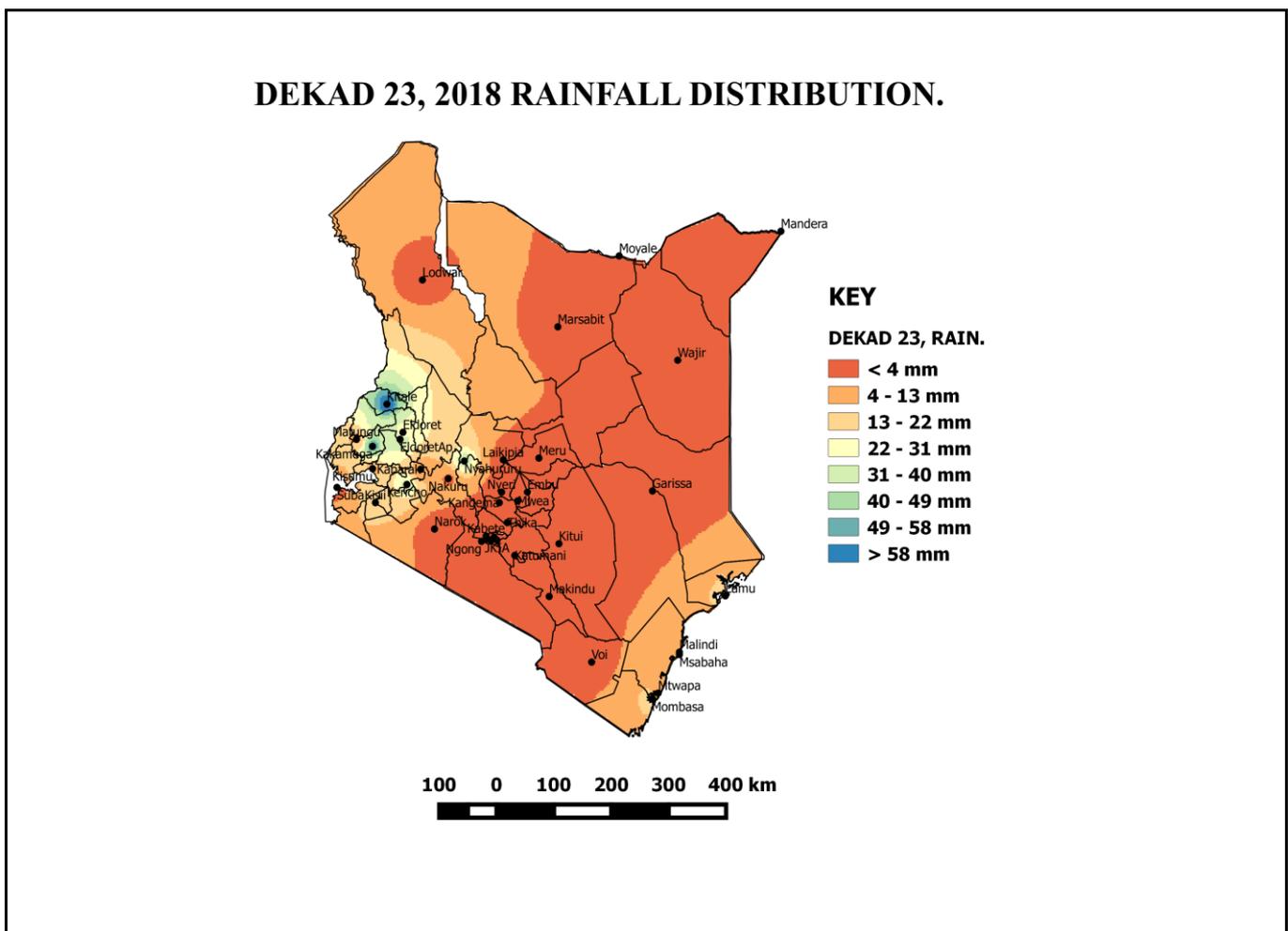


Figure 3.2: Dekadal rainfall distribution for dekad 23, 2018.

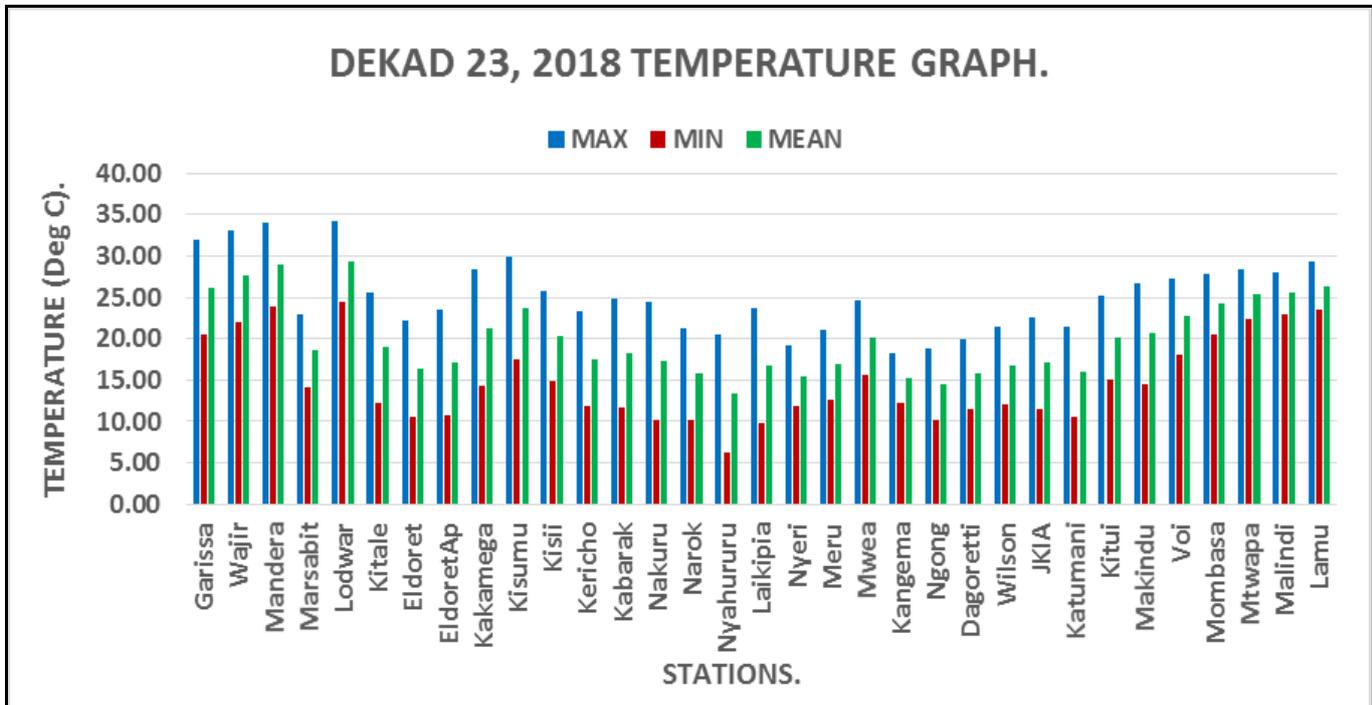


Figure3.3: Maximum, Minimum and Average temperature for dekad 23, 2018.

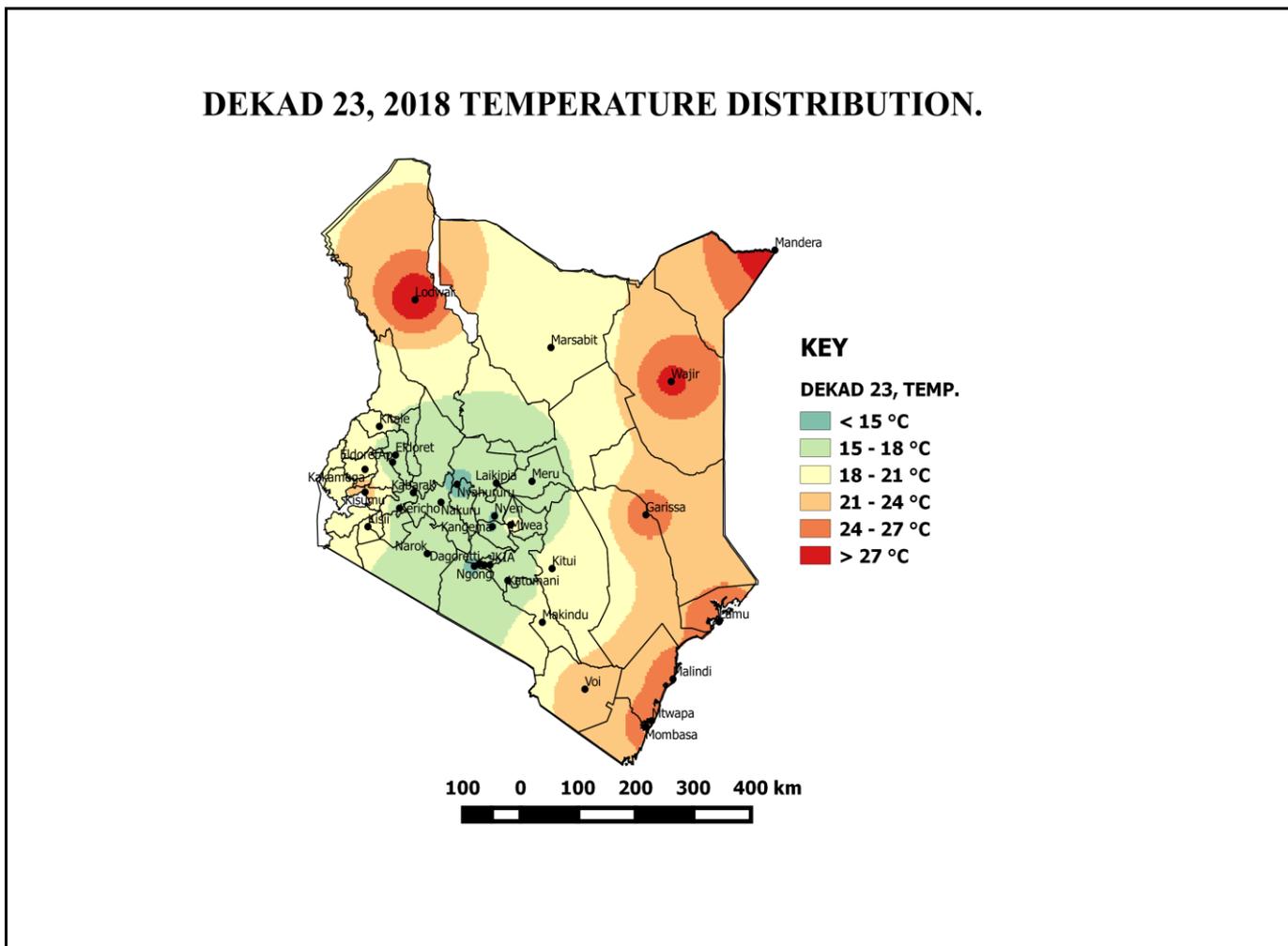


Figure 3.4: Mean temperature distribution for dekad 23, 2018.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST – 31ST AUGUST 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 a possibility of light rains throughout the forecast period.

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

The wet conditions will continue to benefit the crops that are in flowering and 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 except on the 4th day, when there is a possibility of showers over few places in the afternoon.

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), are expected to experience early morning cloudiness giving way to sunny intervals throughout the forecast period except on the 6th day, when there is a possibility of rains over few places.

Afternoons are expected to experience a possibility of showers over few places throughout the forecast period.

The rains and 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 cloudy mornings giving way to sunny intervals for the rest of the day throughout the forecast period.

The dry conditions will continue to have an adverse effect on the crops and animals kept in this area.

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 5th day when there is a possibility of showers over few places throughout the day.

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

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