



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

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased both in intensity and in spatial distribution countrywide. Western region received the highest rainfall amount of 100.8 mm at Kakamega station compared to 67.6 mm reported at the same station in the previous dekad. The second highest rainfall amount of 79.0 mm was recorded at Nakuru station in Rift Valley region. Coastal region reported the highest rainfall amount of 41.6 mm at Malindi station. Eastern region received the highest rainfall amount of 34.6 mm at Mwea station. Kangema station in the Central region recorded the highest rainfall amount of 32.3 mm. Nyanza region received the highest rainfall amount of 26.5 mm at Kisumu station. Nairobi region reported 12.5 mm of rainfall at Kabete station; while Moyale station in North-Eastern region received the highest rainfall amount of 2.4 mm.

Both Maximum and Minimum temperatures increased drastically in most stations. The highest temperature of 34.3⁰C was recorded at Lodwar station in North-Eastern region compared to 33.6⁰C reported at the same station in the previous dekad.

Nyahururu station in Central region continued to report the lowest temperature of 6.3 ⁰C.

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 21, 21ST–31ST JULY, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 100.8mm of rainfall. The Mean air temperature reported was 21.3°C. There was no report on total Pan Evaporation and sunshine parameters.

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

2.1.2 Kisii

The station recorded total rainfall amount of 17.8mm. The Mean air temperature and total Pan Evaporation recorded were 19.5°C and 37.8 mm respectively.

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

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station recorded 22.1 mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 18.7°C and 30.5 mm respectively.

Maize was at maturity stage in good state and the expected yield is normal. Beans harvesting is over in most farms.

2.2.2 Eldoret - Kapsoya

The station recorded 5.8 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 16.4°C and 42.8 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 17.8 mm of rainfall. The Mean air temperature recorded was 16.0°C.

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

2.3.2 Kabete

The station recorded 12.5 mm of rainfall. The total Pan Evaporation reported was 36.0 mm and there was no report on mean air temperature and sunshine duration.

Maize harvesting is ongoing.

2.3.3 Nyahururu

The station received 6.4 mm of rainfall. The mean air temperature recorded was 13.6°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 received 3.1mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 16.1°C and 25.1 mm respectively.

No Phenological report.

2.3.5 Thika

The station recorded 20.6 mm of rainfall; the total Pan Evaporation reported was 26.1 mm and there was no report on Mean air temperature.

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

2.4 EASTERN REGION

2.4.1 Embu

The station received 3.0 mm of rainfall. Total Pan Evaporation recorded was 21.5mm. There was no report on Mean Air Temperature.

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

2.4.2 Meru

The station received 0.8 mm of rainfall. The mean air temperature and the total Pan Evaporation recorded were 17.2⁰C and 35.8 mm respectively.

There was no report on sunshine duration.

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

2.4.3 Katumani (Machakos)

The station recorded 15.7mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 16.5⁰C and 29.7mm respectively.

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

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 37.8mm of rainfall. Total Pan Evaporation recorded was 37.3mm. There was no report on mean Air Temperature.

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

2.5.2 Mtwapa

The station received 15.0mm of rainfall. The mean air temperature and total Pan Evaporation reported were 25.3⁰C and 41.0mm respectively.

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

2.5.3 Lamu

The station recorded 13.2 mm of rainfall. The Mean air temperature recorded was 26.5⁰C. There was no report on total Pan Evaporation.

Maize was at maturity stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

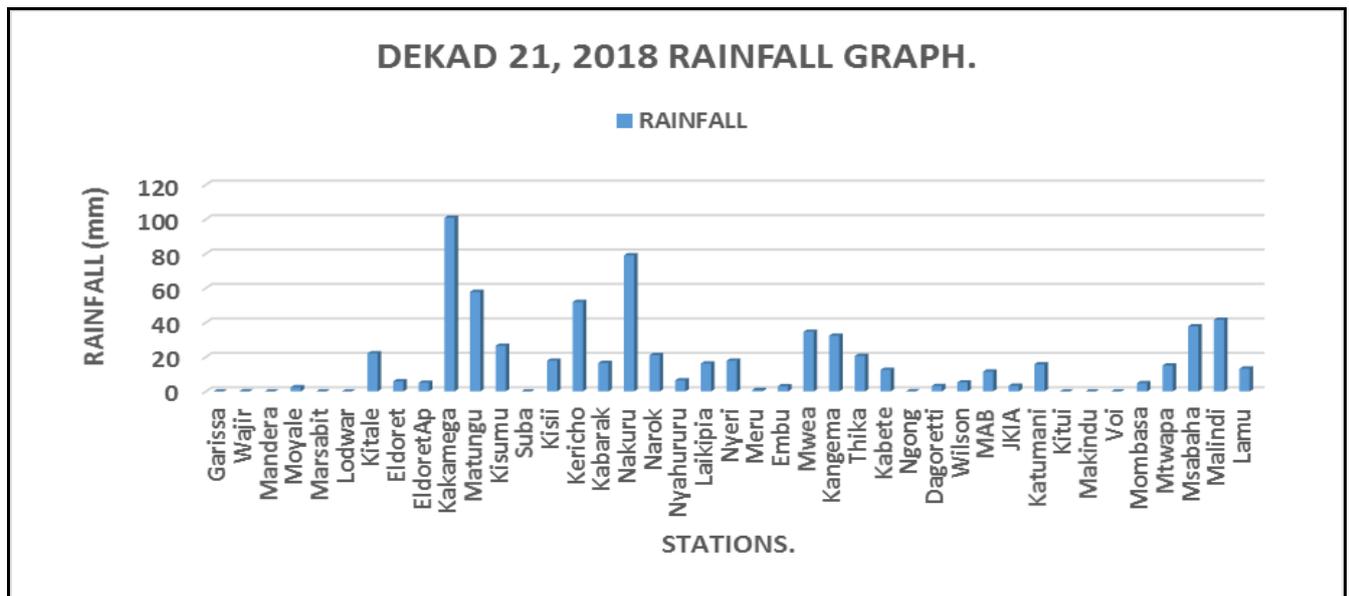


Figure 3.1: Dekadal rainfall totals for dekad 21, 2018.

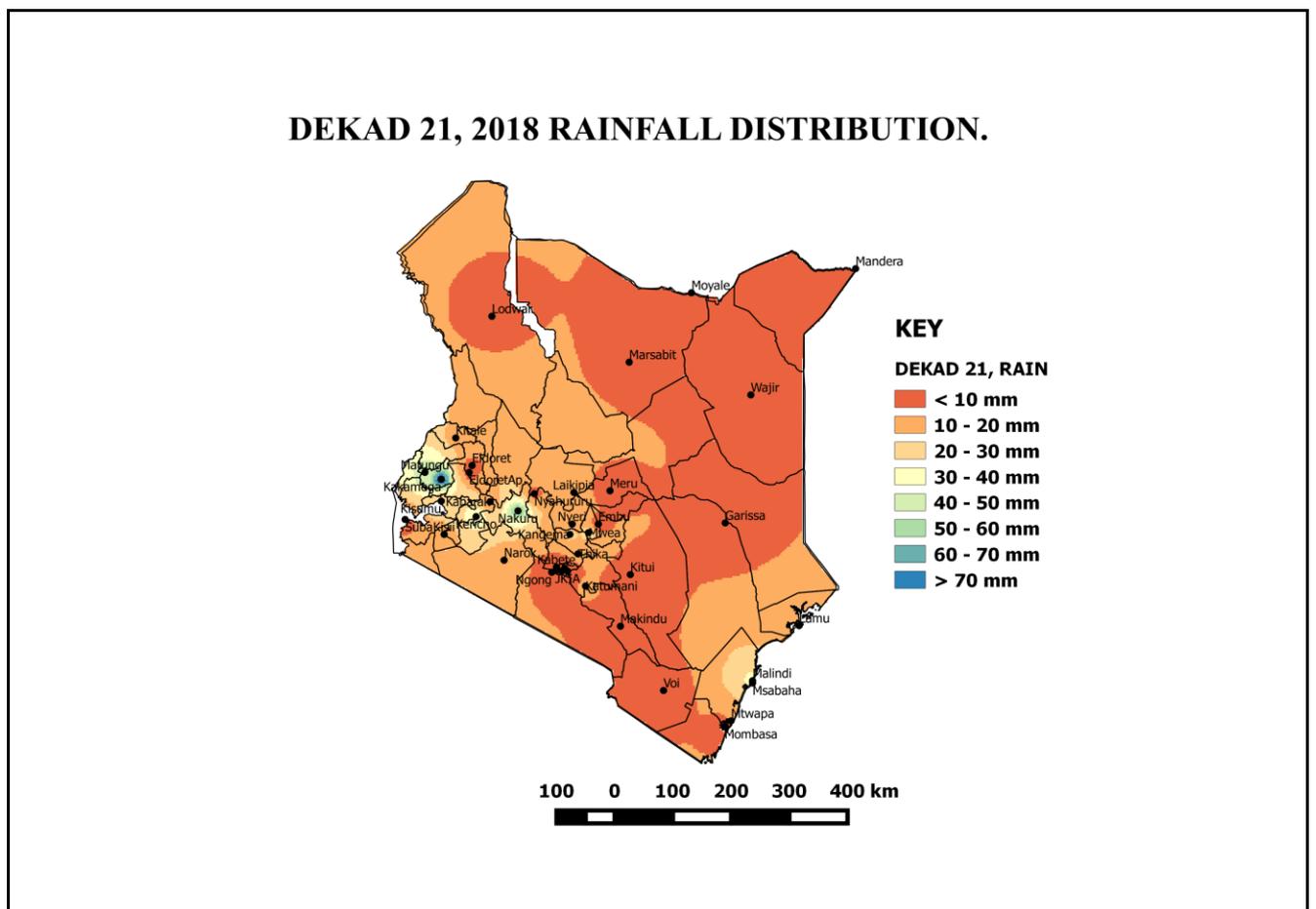


Figure 3.2: Dekadal rainfall distribution for dekad 21, 2018.

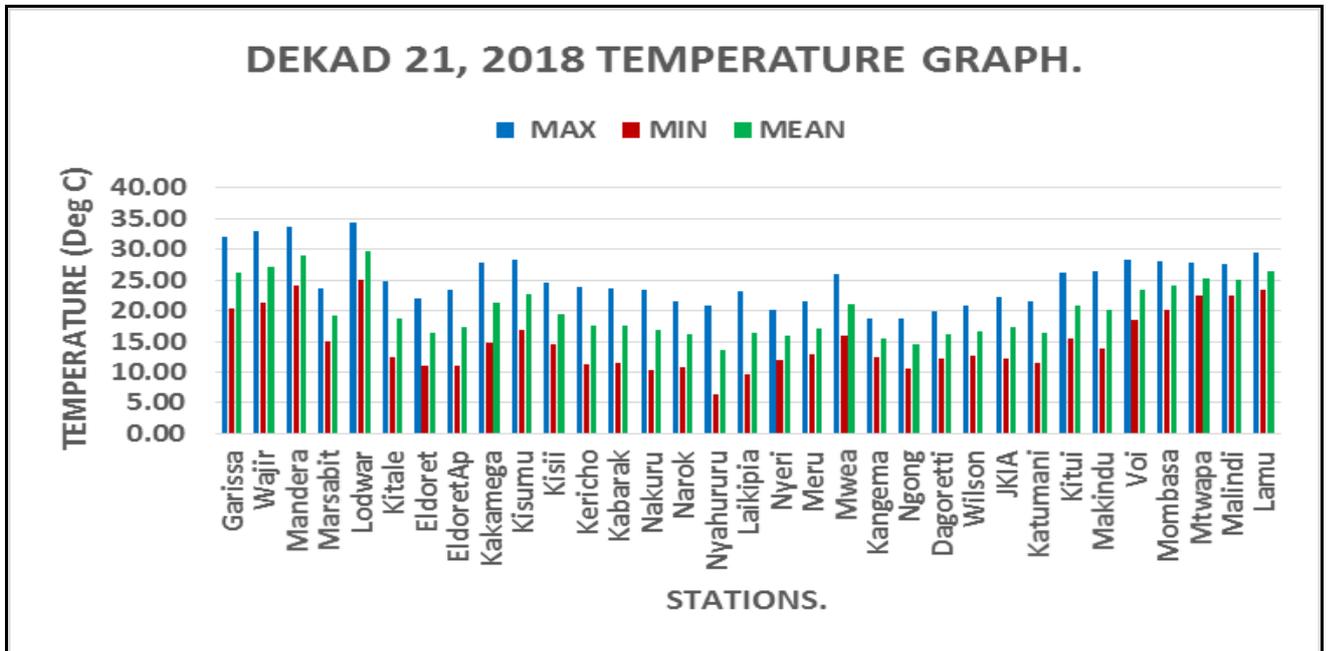


Figure 3.3: Maximum, Minimum and Average temperature for dekad 21, 2018.

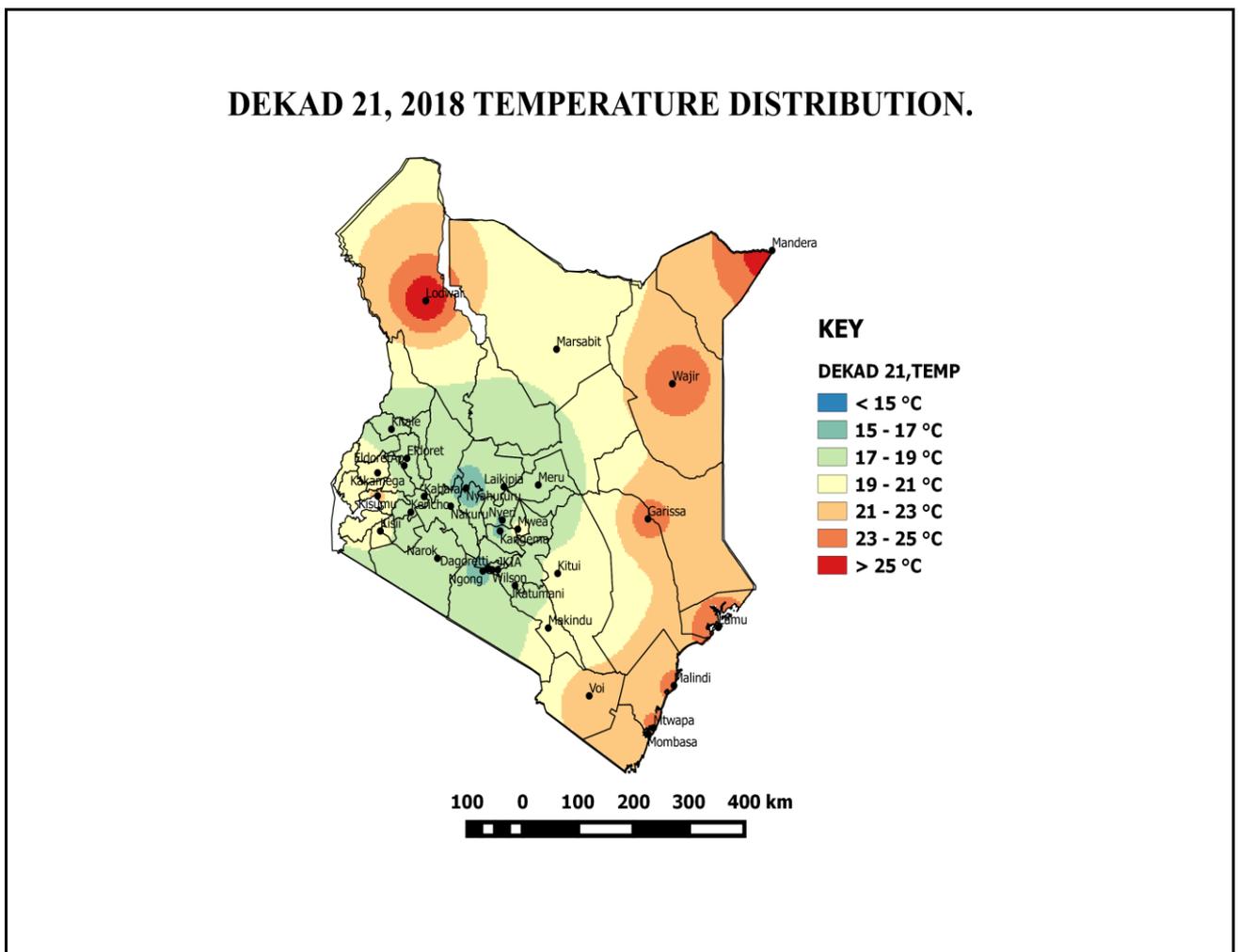


Figure 3.4: Mean temperature distribution for dekad 21, 2018.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST – 10TH 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 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 crops that are in maturity stage in places like Kisumu, Kisii and Kitale. The sunny intervals will enhance the drying of maize in places like Kakamega.

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), are expected to experience mainly cloudy mornings giving way to sunny intervals throughout the forecast period, except on the 7th day where there will be a possibility of rains over few places. Afternoons are expected to experience mainly sunny intervals except on the 7th day where there will be a possibility of showers over few places.

The rains and showers will benefit the crops that are in flowering and maturity stages in places like Nyahururu, Thika, Nyeri and Meru. The sunny intervals will enhance the drying of maize in places like Kabete.

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 continues 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.

The dry conditions continues to have an adverse impact on the crops and animals kept in this area.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience sunny intervals the entire day for the first 4 days, followed by showers over few places the entire day on 5th and 6th days of the forecast period, breaking into sunny intervals the entire day thereafter.

The showers will be of great benefit to the maize that are in maturity stage in places like Mtwapa. The sunny intervals will enhance the drying of maize in places like Msabaha.

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