



KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 20, 11TH - 20TH JULY, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities decreased drastically both in intensity and in spatial distribution in most stations countrywide. The highest rainfall of 67.6 mm was received in Western region at Kakamega Station compared to 122.4 mm reported at Eldoret Airport station in Rift Valley region in the previous dekad. Eldoret Kapsoya and Kitale stations in Rift valley region recorded the highest rainfall amount of 58.6 and 35.5 mm respectively. Coastal region reported the highest rainfall amount of 22.9 mm at Msabaha station. Central region received the highest rainfall amount of 18.5 mm at Kangema station. Embu station in Eastern region recorded the highest rainfall amount of 14.3mm. Moyale station in North-Eastern region received the highest rainfall amount of 2.3 mm; while Ngong' station in Nairobi region reported the highest rainfall amount of 2.2 mm.

Maximum and Minimum temperatures continued on a decreasing trend in most stations. The highest temperature of 33.6⁰C was recorded at Lodwar station in North-Eastern region compared to 33.8⁰C reported at the same station in the previous dekad.

Nyahururu station in Central region continued to report the lowest minimum temperature of 7.86 ⁰C compared to 7.89 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 20, 11TH-20TH JULY, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 67.6mm of rainfall. The Mean air temperature reported was 20.8⁰C and sunshine duration was 8.2 hrs/day. There was no report on total Pan Evaporation.

Maize was at harvest stage and in good state, though they have been affected by army worms, normal yield is still expected.

2.1.2 Kisii

The station recorded total rainfall amount of 0.03. The Mean air temperature and total Pan Evaporation recorded were 19.7⁰C and 28.0mm respectively. There was no report on sunshine duration.

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

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station recorded 35.5 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 18.4°C and 28.5 mm respectively. There was no report on Sunshine parameter.

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

2.2.2 Eldoret - Kapsoya

The station recorded 58.6 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 16.2°C and 31.1 mm respectively. There was no report on Sunshine parameter.

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

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 7.3 mm of rainfall. The Mean air temperature recorded was 15.2°C. Sunshine duration reported was 2.3/day; there was no report on total Pan Evaporation.

Maize was at flowering stage and in fair state though it had been affected by stalk borer, normal yield is still expected. Beans were at harvest stage and in poor state due to excessive rainfall and other insects; hence, below normal yield is expected

2.3.2 Kabete

The station recorded 1.5 mm of rainfall. The total Pan Evaporation reported was 14.5 mm and there was no report on mean air temperature and sunshine duration.

Maize was still at maturity stage, in fair state, hence normal yield is expected. Beans have been harvested.

2.3.3 Nyahururu

The station received 14.2 mm of rainfall. The Mean air temperature recorded was 13.7°C. There was no report on sunshine and Pan Evaporation parameters.

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

2.3.4 Dagoretti

The station received 0.04mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 15.5°C and 21.5mm respectively. There was no report on Sunshine parameter.

No Phenological report.

2.3.5 Thika

The station recorded 0.5 mm of rainfall; the total Pan Evaporation reported was 20.8mm. There was no report on Mean air temperature and sunshine parameters.

Maize and Beans were at maturity and harvest stages respectively. Both crops were in fair state hence normal yield is expected. Potatoes have been harvested.

2.4 EASTERN REGION

2.4.1 Embu

The station received 14.3 mm of rainfall. Total Pan Evaporation recorded was 16.3mm. There was no report on Mean Air Temperature and sunshine parameter.

Maize and beans were at maturity and harvest stages respectively. Both crops were in fair state, hence expected yield is normal.

2.4.2 Meru

The station received 3.6mm of rainfall. The mean air temperature and the total Pan Evaporation recorded were 16.6⁰C and 24.6 mm respectively. There was no report on sunshine duration.

Maize was at maturity stage and in good state; while Beans were at harvest stage and in fair state. Normal yield is expected for both crops.

2.4.3 Katumani (Machakos)

The station continued to report dry conditions. The mean air temperature and total Pan Evaporation recorded were 15.9⁰C and 22.5 mm respectively. There was no report on sunshine duration.

Maize was at harvest stage and in good state hence normal yield is expected. Beans have been harvested.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 22.9mm of rainfall. Total Pan Evaporation recorded was 41.9 mm. There was no report on mean air temperature and Sunshine duration.

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

2.5.2 Mtwapa

The station received 6.2 mm of rainfall. The mean air temperature and Total Pan Evaporation reported were 26.0⁰C and 51.2mm respectively. There was no report on Sunshine parameter.

Maize was still at flowering stage and in fair state. Though it had been affected by Army worms and stalk borer; normal yield is still expected.

2.5.3 Lamu

The station recorded 2.9 mm of rainfall. The Mean air temperature recorded was 27.0⁰C. There was no report on total Pan Evaporation and Sunshine parameters.

Maize was still at flowering stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

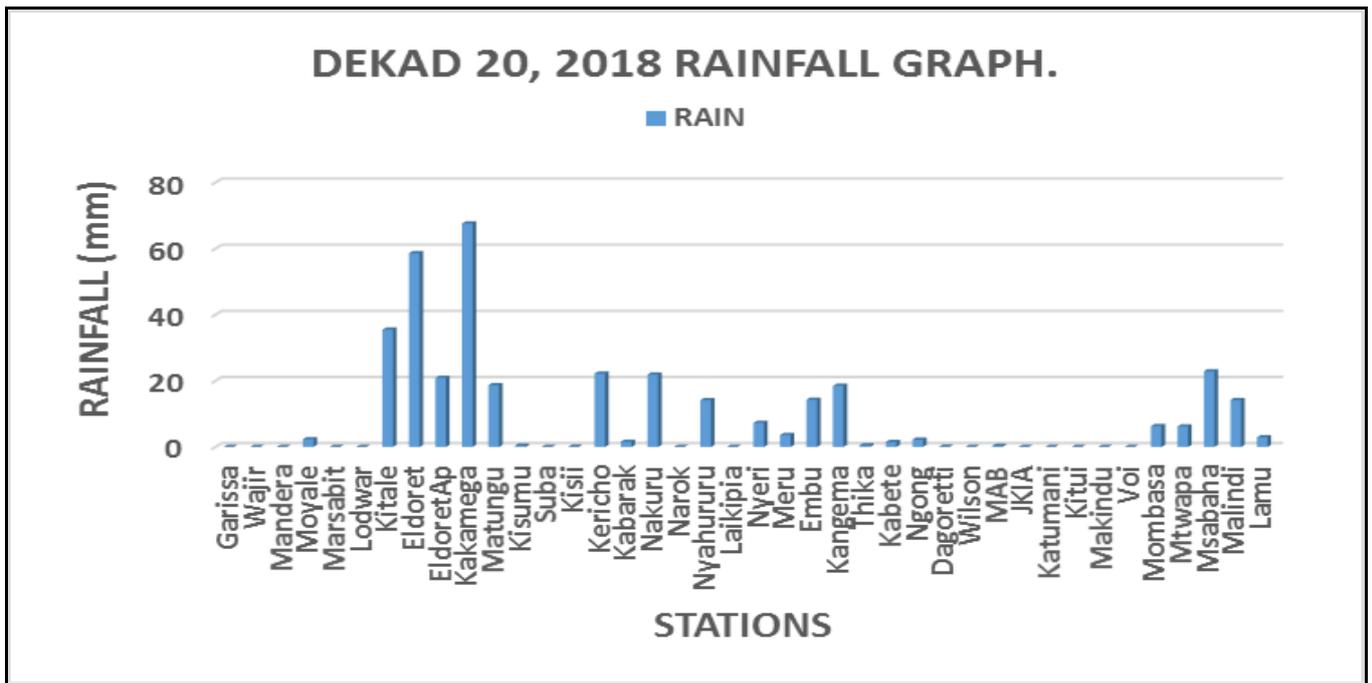


Figure 3.1: Dekadal rainfall totals for dekad 20, 2018.

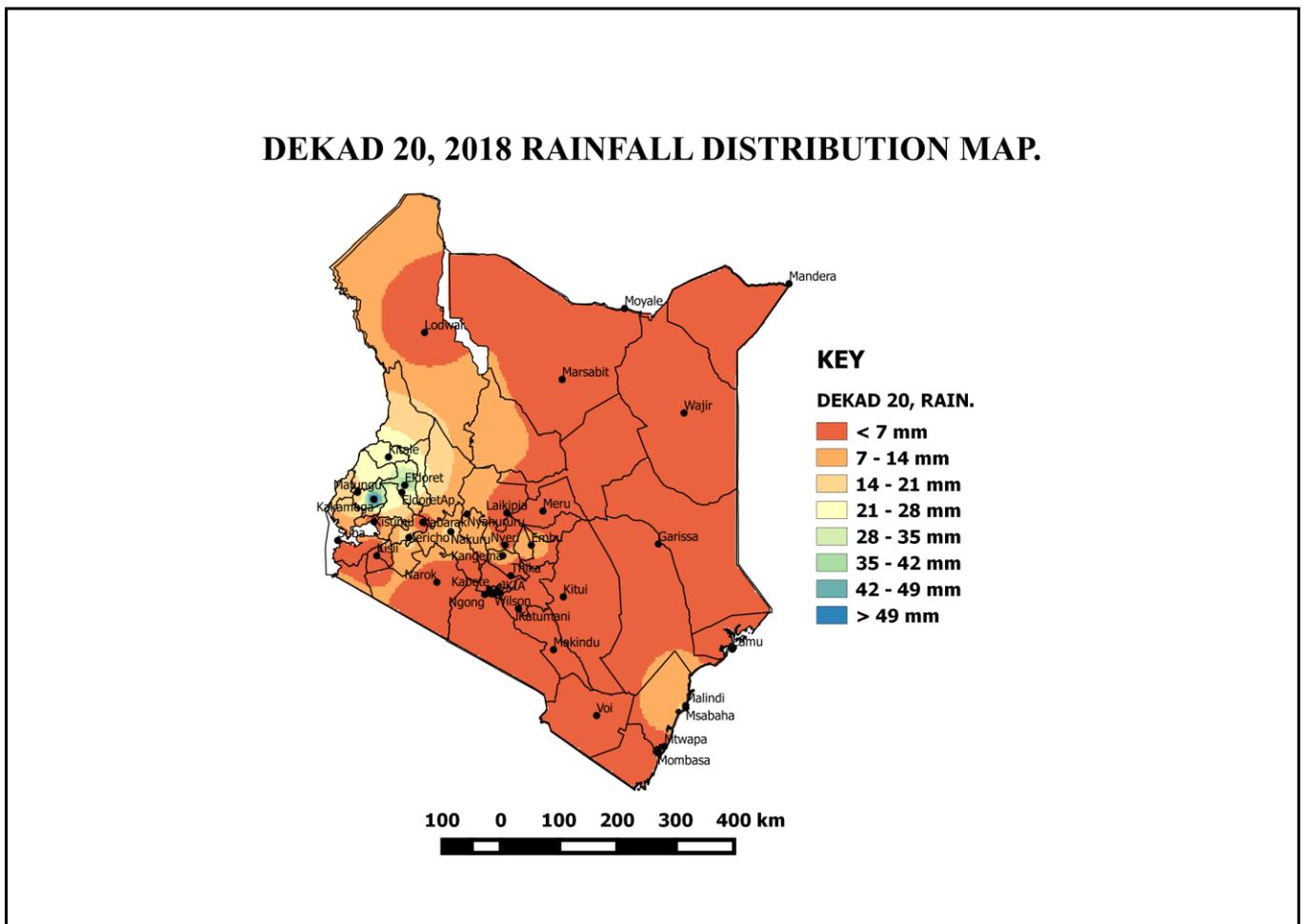


Figure 3.2: Dekadal rainfall distribution for dekad 20, 2018.

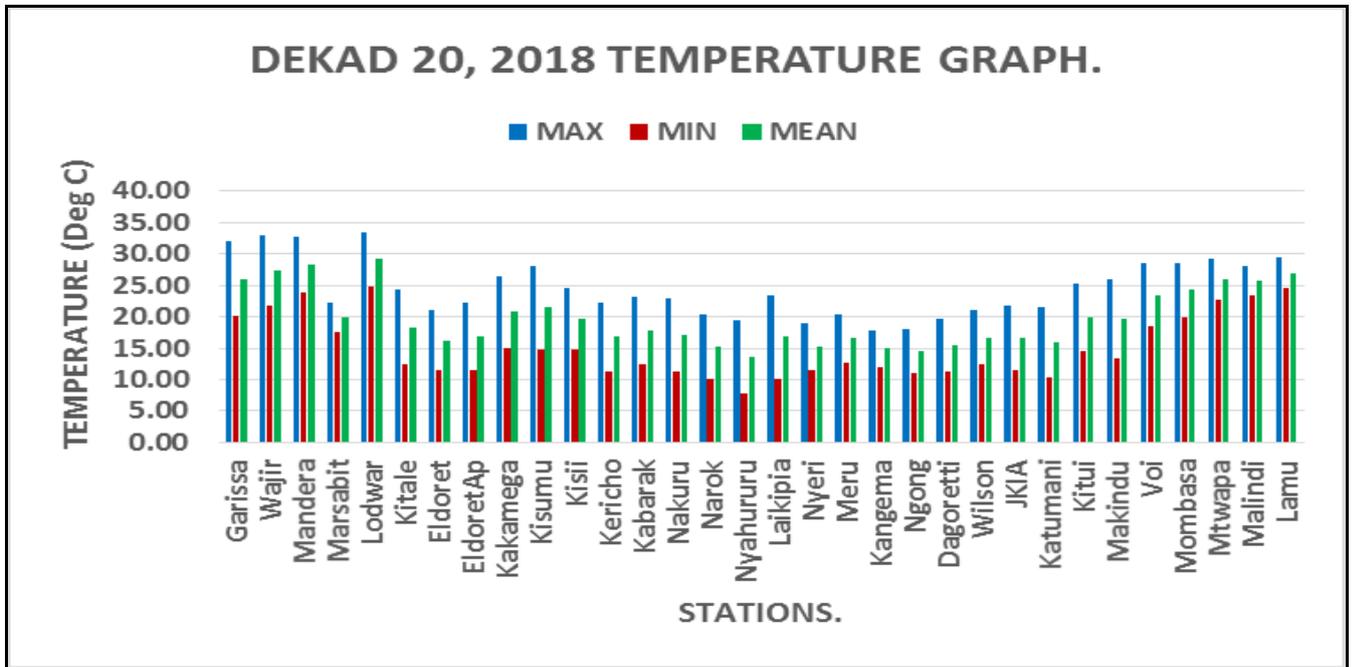


Figure3.3: Maximum, Minimum and Average temperature for dekad 20, 2018.

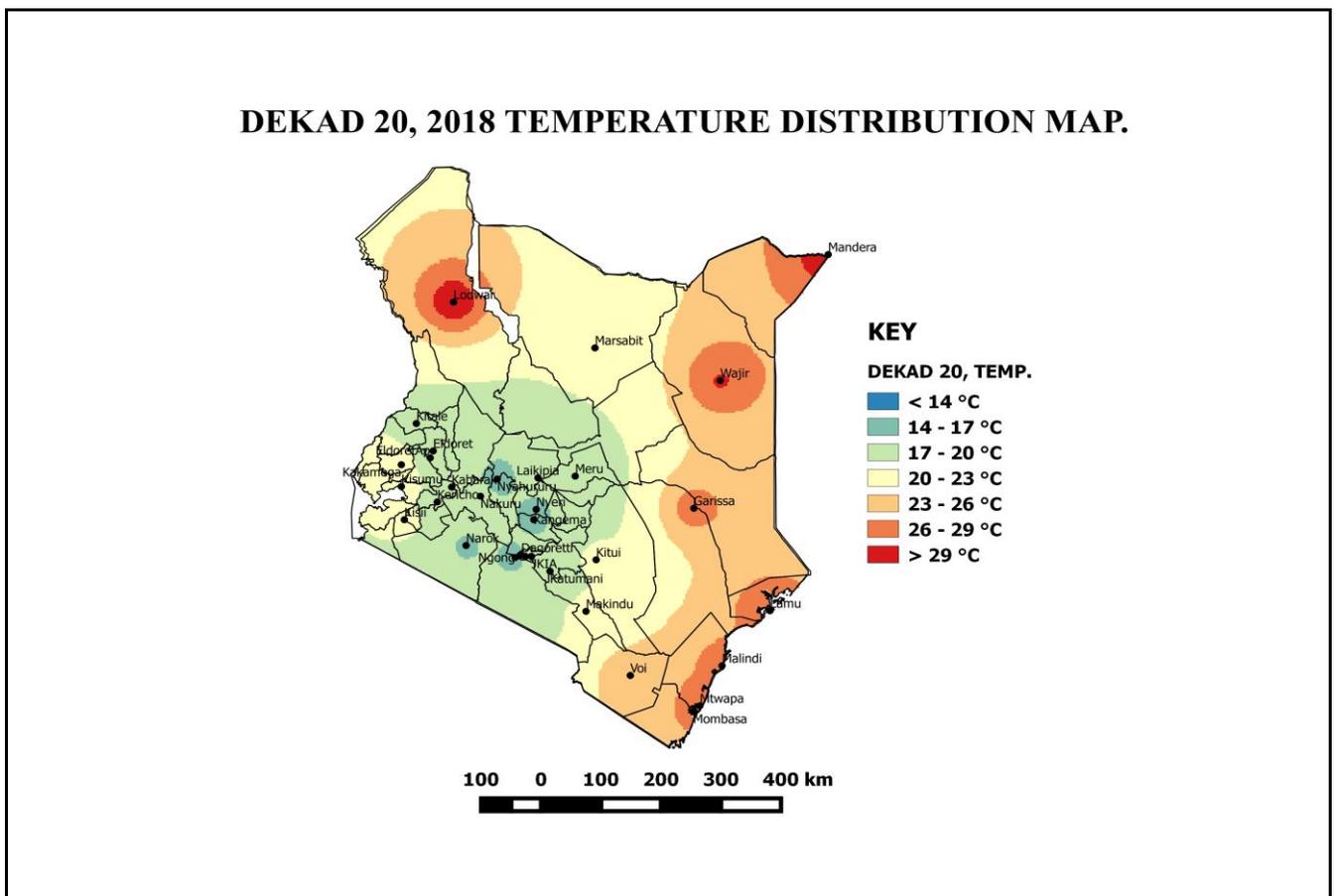


Figure 3.4: Mean temperature distribution for dekad 20, 2018.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11TH – 20TH JULY 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 crops that are in maturity in places like Kitale, while the sunny intervals will benefit the crops that are in harvest stage in places like Kisumu, Kisii, and Kakamega.

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

The dry conditions will have a 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 mostly cool cloudy mornings with light rains over few places giving way to sunny intervals throughout the forecast period.

Afternoons are expected to experience showers/rains over few places for most of the forecast period.

The wet conditions will continue to benefit the crops that are in flowering and maturity stages in places like Kabete, Nyahururu, Thika, Embu, Nyeri and Meru.

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

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

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui), are expected to experience cloudy mornings breaking into sunny intervals throughout the forecast period.

The dry conditions will continue to favour the harvesting of maize crop in places like Machakos.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) Mornings are expected to experience light showers over few places for much of the forecast period. Afternoons are expected to experience sunny intervals throughout the forecast period, except on the 5th day where showers over few places will be realized.

The showers will continue to benefit the maize and fruits that are still in flowering stage in places like Mtwapa, Msabaha and Lamu.

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