



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 29, 11TH -20TH OCTOBER, 2018.

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Rainfall activities increased in intensity and decreased in spatial distribution countrywide. Western region recorded the highest rainfall amount of 75.7 mm at Kakamega station. Eldoret Kapsoya station in Rift Valley region received the highest rainfall amount of 73.4 mm. North Eastern region reported the highest rainfall amount of 50.6 mm at Marsabit station. Central region recorded the highest rainfall amount of 49.9 mm at Laikipia station. Kisumu station in Nyanza region reported the highest rainfall amount of 43.6mm. Nairobi region received the highest rainfall amount of 36.0 mm at Ngong station. Mwea station in Eastern region recorded the highest rainfall amount of 35.9 mm. Coastal region received the highest rainfall amount of 14.6 mm at Malindi station.

Both Maximum and Minimum temperatures continued to increase in most stations. The highest Maximum temperature of 36.8⁰C was recorded at Lodwar station in the North Eastern region compared to 36.3⁰C recorded at Mandera station in the same region in the previous dekad.

Nyahururu station in Central region reported the lowest Minimum temperature of 7.9⁰C compared to 6.8⁰C 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 29, 11TH – 20TH OCTOBER, 2018.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 75.7 mm of rainfall. The Mean air temperature reported was 21.2°C. There was no report on total Pan Evaporation and sunshine parameters.

Beans were at flowering stage and in good state.

2.1.2 Kisii

The station reported total rainfall amount of 41.9mm. Mean air temperature recorded was 20.7°C. The total Pan Evaporation recorded and the sunshine parameter were 30.4mm and 5.3 hrs / day respectively.

Maize was at emergence stage and in fair state; while the Beans were at flowering stage and in poor state as they have been invaded by black aphids and too much sun.

2.2 RIFT VALLEY REGION.

2.2.1 Kitale.

The station recorded 50.4 mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 19.7°C and 36.4 mm respectively.

Most farmers have already harvested their maize crop.

2.2.2 Eldoret – Kapsoya.

The station recorded 73.4mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 18.5°C and 49.9mm respectively.

Maize was at harvesting 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 recorded dry conditions. Sunshine duration was 8.7 hrs/day. There was no report on Mean air temperature and total Pan Evaporation.

Farmers have started planting.

2.3.2 Kabete

The station received 6.5mm of rainfall. The total Pan Evaporation reported was 43.7mm, there was no report on mean air temperature and sunshine duration.

Farmers are waiting for the onset of the short rains season to start planting.

2.3.3 Nyahururu

The station received 20.8 mm of rainfall. The mean air temperature recorded was 15.5°C. There was no report on total Pan Evaporation and sunshine parameters.

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

2.3.4 Dagoretti

The station recorded 13.1 mm of rainfall. The Mean air temperature and Total Pan Evaporation were 20.5°C and 46.1mm respectively.

No Phenological report.

2.3.5 Thika

The station reported dry conditions. The Total Pan Evaporation recorded was 53.0mm. There was no report on Mean Air Temperature.

Farmers were preparing their land for planting in the coming next short rain season.

2.4 EASTERN REGION.

2.4.1 Embu

The station recorded 5.5 mm of rainfall. The Total Pan Evaporation was 50.0mm
There was no report on Mean Air Temperature.

Farmers were preparing their land for the next planting season.

2.4.2 Meru

The station reported 19.0mm of rainfall. The mean air temperature and Total Pan Evaporation recorded were 20.4⁰C and 46.5mm respectively. There was no report on sunshine duration.

Farmers were still preparing their land for the next planting season.

2.4.3 Katumani (Machakos)

The station reported dry conditions. There was no report on total Pan Evaporation and mean air temperature.

Farmers were preparing their land for the next planting season.

2.5 COASTAL REGION.

Msabaha

The station received 8.2 mm of rainfall. The total Pan Evaporation was 42.2 mm. There was no report on Mean Air Temperature.

Farmers were preparing their land for next season planting.

2.5.1 Mtwapa

The station received 4.9 mm of rainfall. The Mean Air temperature and the total Pan Evaporation reported were 26.7 °C and 53.4 mm respectively.

Farmers were preparing the land for next season planting.

2.5.2 Lamu

The station recorded 0.6 mm of rainfall. The Mean air temperature recorded was 28.0 °C. There was no report on total Pan Evaporation.

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

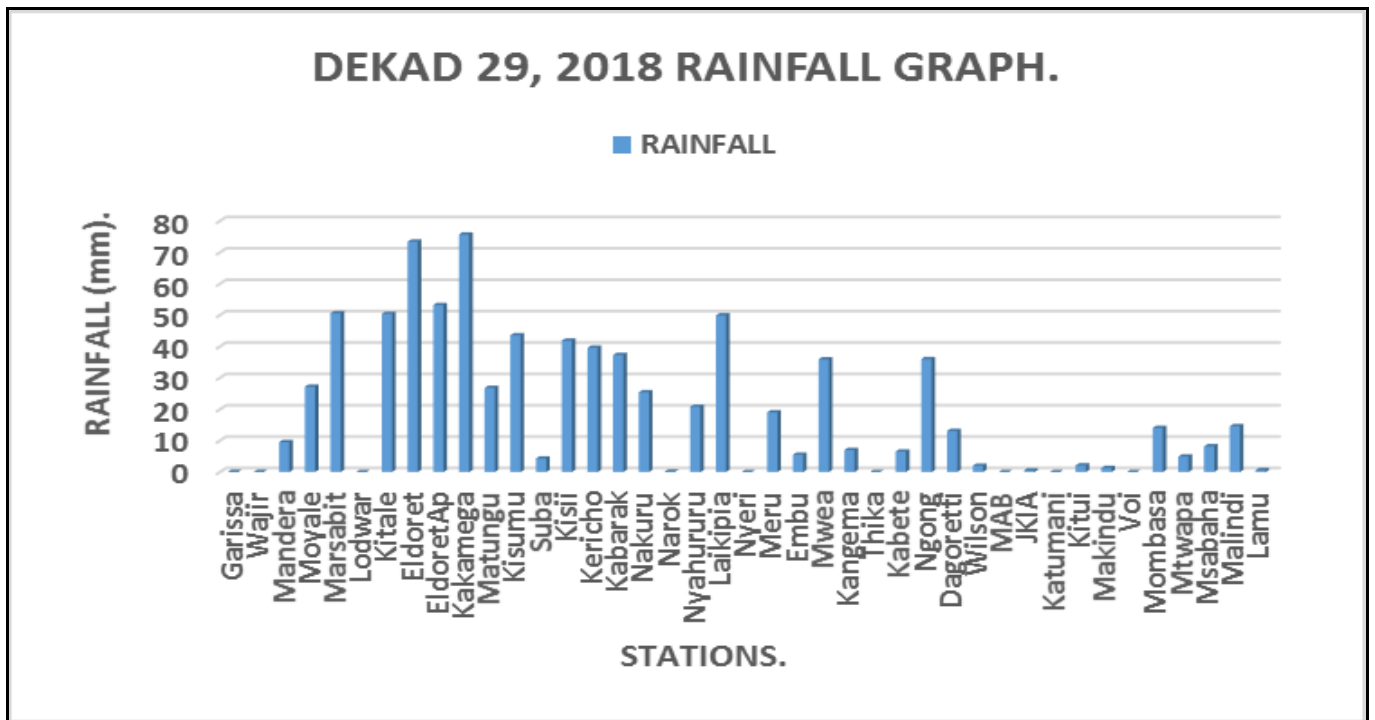


Figure 3.1: Dekadal rainfall totals for dekad 29, 2018.

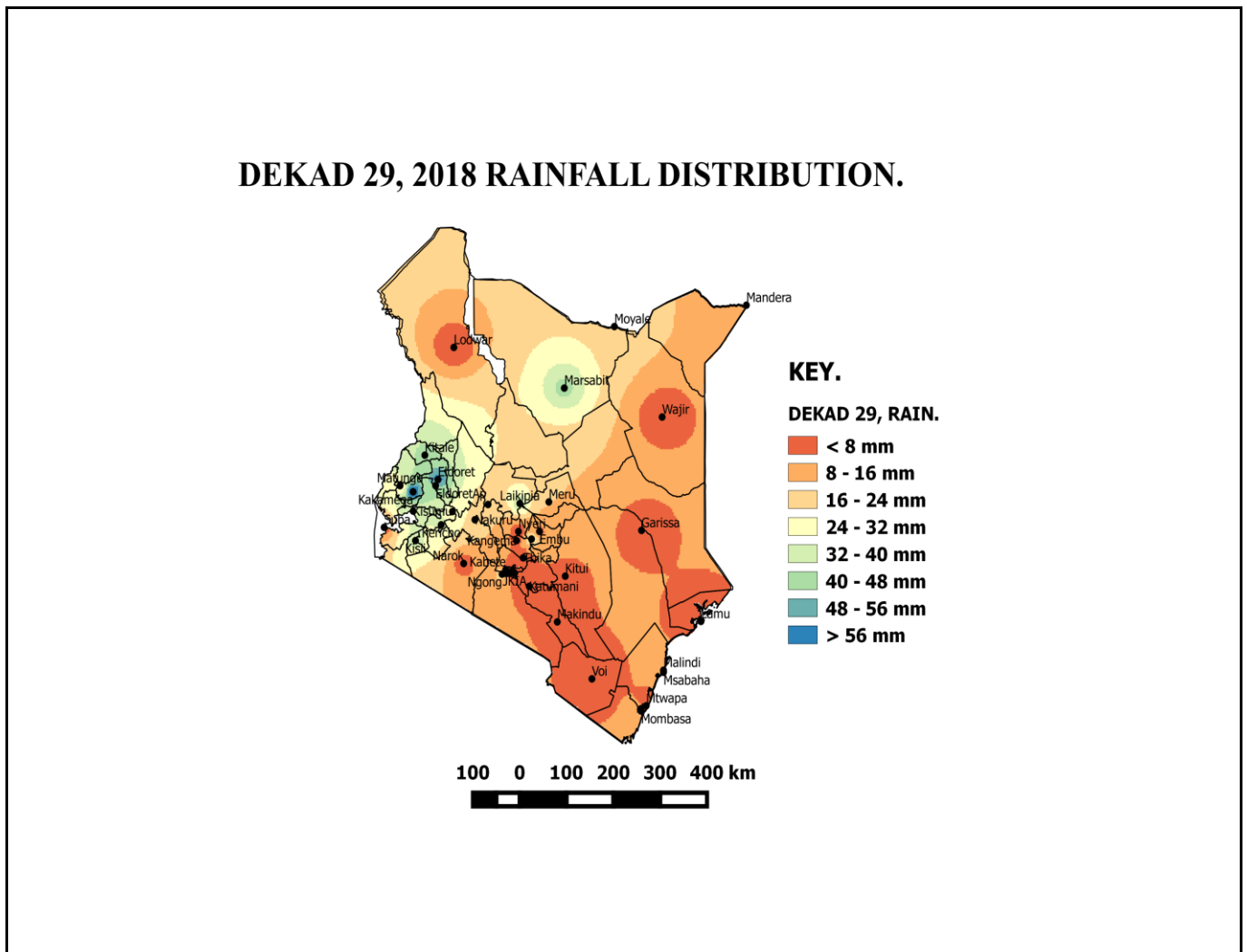


Figure 3.2: Dekadal rainfall distribution for dekad 29, 2018.

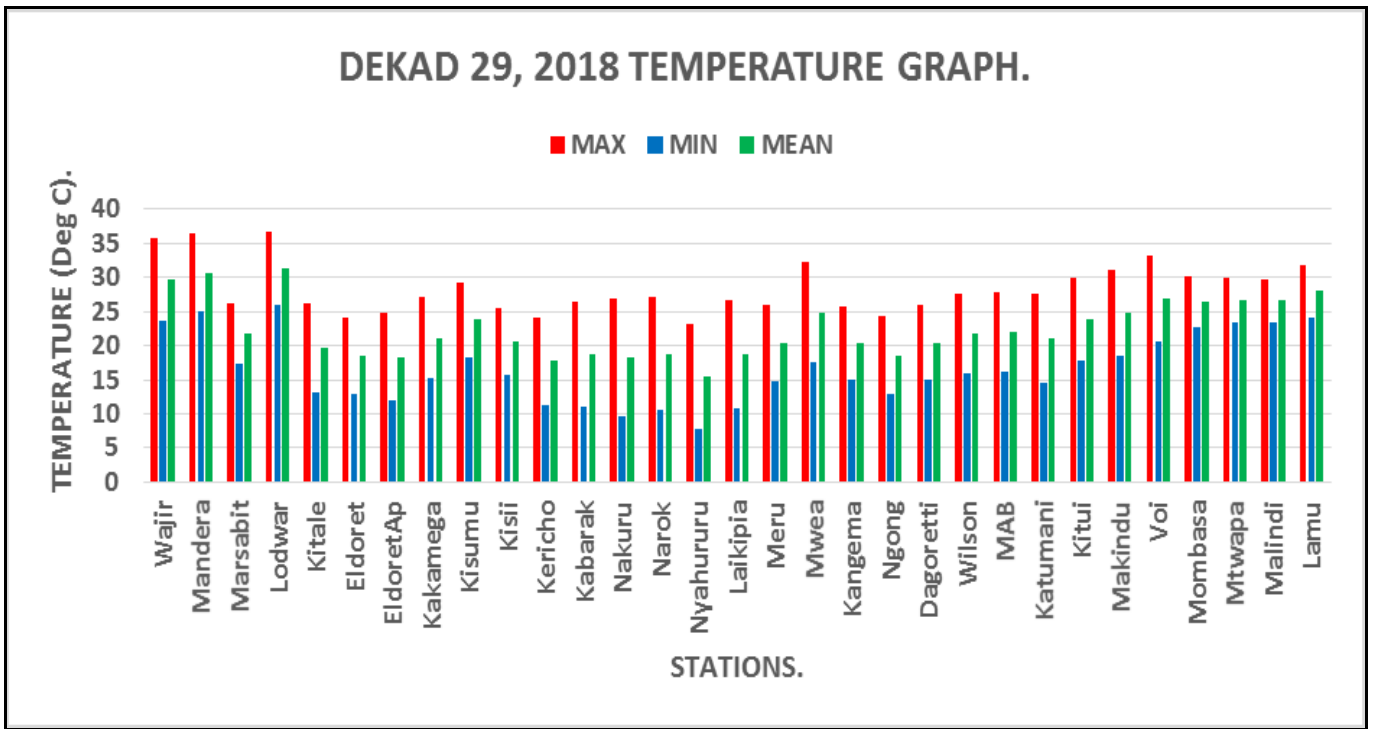


Figure3.3: Maximum, Minimum and Average temperature for dekad 29, 2018.

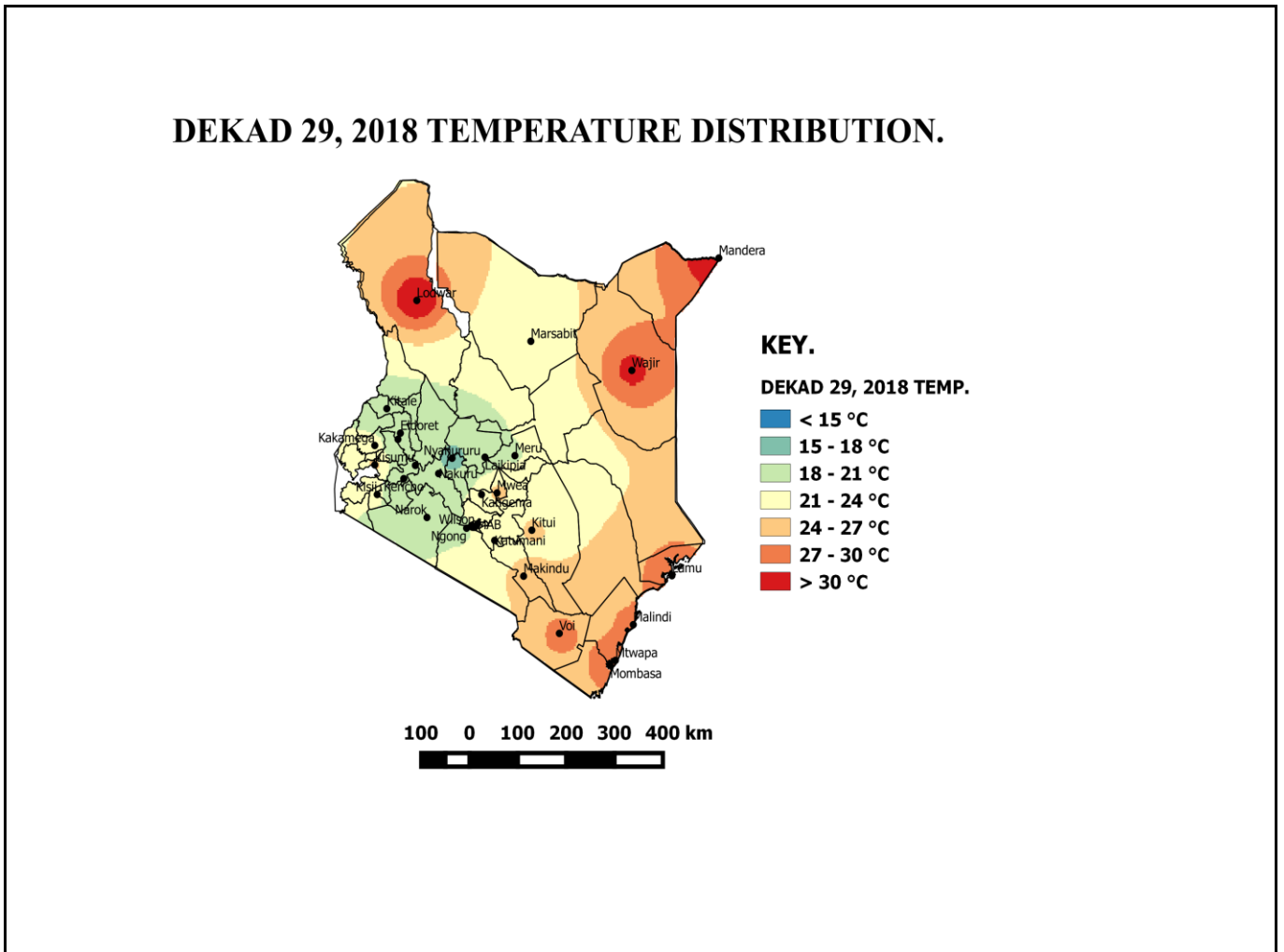


Figure 3.4: Mean temperature distribution for dekad 29, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;
21ST– 31ST, OCTOBER 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 during the forecast period. Afternoons/Evenings are expected to experience mainly showers and thunderstorms over few places during the forecast period.

The showers will benefit the crops that are at emergence and flowering stages in places like Kisii and Kakamega.

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

The sunny conditions will continue to 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), mornings are expected to experience mainly rains over few places during the forecast period except on the 5th and the 6th day when it will increase to several places. The afternoons/evenings will experience mainly showers over few places except on the 5th and 6th day when it will increase to several places.

The Showers will benefit the maize that are at maturity stage in Nyahururu and the seeds that have been planted in Nyeri.

North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Mornings are expected to experience mainly rains over few places except on the 6th and 7th day when it will increase to several places. Afternoon/evening are expected to experience mainly showers over few places during the forecast period.

The wet conditions will have a positive effect on the pasture for the animals kept in this region.

South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui), Mornings are expected to experience rains over few places during the forecast period except on the 6th and the 7th day when it will increase to several places. Afternoons /evening are expected to experience showers over few places except on the 5th, 6th and the 7th day when it will increase to several places.

The wet conditions will benefit the pasture for the animals kept in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience mainly showers over several places the entire day during the forecast period; except on the 1st, 2nd and the 3rd day when there is a possibility of showers over few places.

The showers will benefit the fruits planted in this area.

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