



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 31, 1ST -10TH NOVEMBER, 2018.

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

There was a drastic decrease in rainfall activities both in intensity and in spatial distribution in most stations during the dekad. The highest rainfall of 87.1mm was received in Nyanza region at Kisii station; compared to 257.5mm reported at Mombasa station in Coastal region in the previous dekad. Laikipia Airbase station in Central region received the highest rainfall amount of 80.0mm. Eastern region recorded the highest rainfall amount of 72.9 at Meru station. Western region recorded the highest rainfall amount of 57.8 mm at Matungu station. Kericho station in Rift Valley region reported the highest rainfall amount of 54.7mm. Nairobi region received the highest rainfall amount of 20.0, 15.6, 13.6, 11.6 and 9.6 mm at Jomo Kenyatta Airport, Kabete, Dagoretii, Moi Airbase and Ngong' stations respectively. Mtwapa station in Coastal region recorded the highest rainfall amount of 7.8 mm; while North-Eastern region reported the highest rainfall amount of 4.7 and 1.1 mm at Marsabit and Mandera stations respectively.

Both Maximum and Minimum temperatures increased drastically in most stations. The highest Maximum temperature of 36.9⁰C was recorded at Lodwar station in North Eastern region compared to 35.8⁰C recorded at the same station in the previous dekad.

Nyahururu station in Central region reported the lowest Minimum temperature of 7.7⁰C.

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 31, 1ST – 10TH NOVEMBER, 2018.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 21.7 mm of rainfall. The Mean air temperature reported was 21.8⁰C. There was no report on total Pan Evaporation and sunshine parameters.

Beans were at maturity stage and in fair state; hence normal yield is expected.

2.1.2 Kisii

The station reported total rainfall amount of 87.1mm. Mean air temperature recorded was 20.8⁰C. Total Pan Evaporation recorded and sunshine parameter were 37.1mm and 7.7 hrs / day respectively.

Maize was at flowering stage and in poor state; while Beans were at flowering stage and in failure state. Maize and Beans have been affected by Fall Army Worms and Black Aphids respectively, hence below normal yield is expected for both crops.

2.2 RIFT VALLEY REGION.

2.2.1 Kitale.

The station recorded 28.4 mm of rainfall. The Mean air temperature was 19.4°C. There was no report on total Pan Evaporation.

Maize harvesting is almost over in most farms.

2.2.2 Eldoret – Kapsoya.

The station recorded 31.5mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 19.6°C and 38.0mm respectively.

Maize harvesting is still underway.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

2.3.1 Nyeri

The station recorded 26.0mm of rainfall. There was no report on Mean air temperature, total Pan Evaporation and Sunshine duration.

Maize and beans were at emergence stage.

2.3.2 Kabete

The station received 15.6mm of rainfall. The total Pan Evaporation reported was 42.5mm, there was no report on mean air temperature and sunshine duration.

Maize and Beans were at emergence stage and in fair state.

2.3.3 Nyahururu

The station received 9.0 mm of rainfall. The mean air temperature recorded was 15.0°C. There was no report on total Pan Evaporation and sunshine parameters.

Maize harvesting has started in some farms.

Dagoretti

The station recorded 13.6mm of rainfall. The Mean air temperature and total Pan Evaporation were 19.8°C and 45.7mm respectively. Sunshine hrs reported were 7.9hr/day.

No Phenological report.

2.3.4 Thika

The station reported 5.1mm of rainfall. Total Pan Evaporation was 48.5mm. There was no report on Mean Air Temperature.

Some farmers are still planting their Maize and Beans crops.

EASTERN REGION.

2.3.5 Embu

The station recorded 57.4 mm of rainfall. There was no report on Mean Air Temperature and total Pan Evaporation.

Maize and beans crops were in emergence stage and in fair state.

2.3.6 Meru

The station reported 72.9mm of rainfall. The mean air temperature recorded was 19.4⁰C. There was no report on total Pan Evaporation and sunshine duration parameters.

Maize and beans crops are in emergence state.

2.3.7 Katumani (Machakos)

The station reported 6.6mm of rainfall. Mean air temperature recorded was 20.0⁰C. There was no report on total Pan Evaporation and sunshine parameters.

Maize and Beans crops are in emergence state.

2.4 COASTAL REGION.

2.5.1 Msabaha

The station received 4.9 mm of rainfall. Total Pan Evaporation was 43.7 mm. There was no report on Mean Air Temperature and sunshine duration.

Maize and Beans crops were in emergence state.

2.5.2 Mtwapa

The station received 7.8 mm of rainfall. The Mean Air temperature and total Pan Evaporation reported were 26.8 °C and 53.9 mm respectively. There was no report on sunshine duration.

Maize and Beans crops were in emergence state. Mangoes are in dormant stage.

2.5.3 Lamu

The station recorded 0.01 mm of rainfall. Mean air temperature recorded was 28.1 °C. There was no report on total Pan Evaporation and sunshine parameters.

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

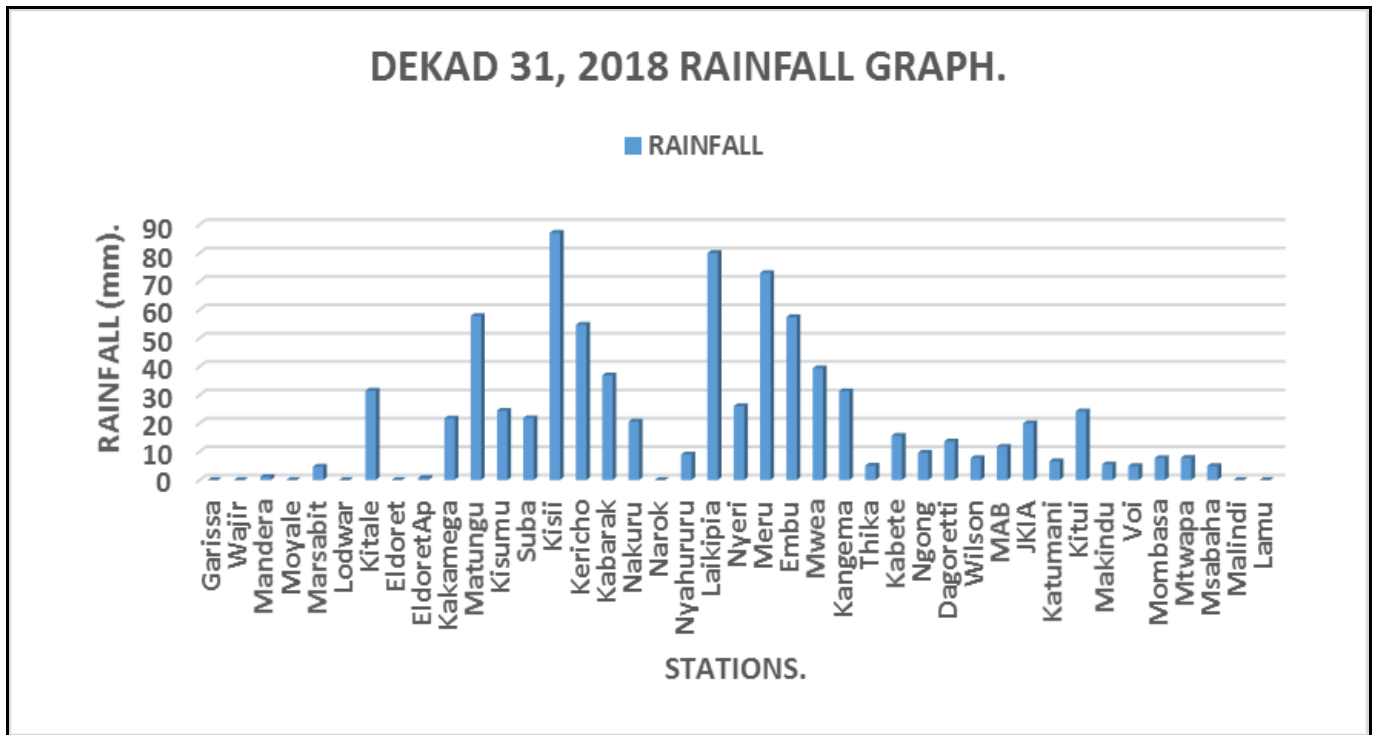


Figure 3.1: Dekadal rainfall totals for dekad 31, 2018.

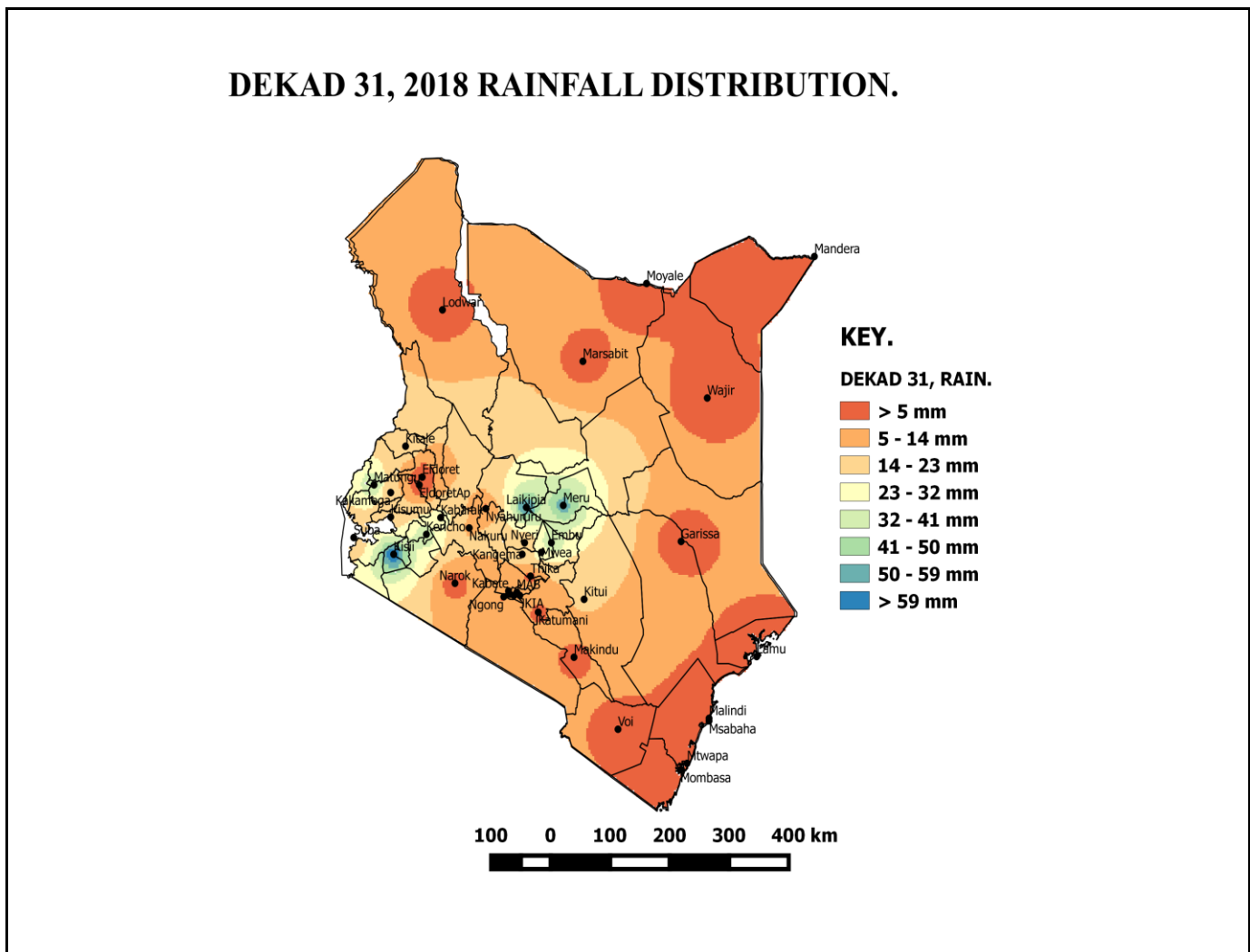


Figure 3.2: Dekadal rainfall distribution for dekad 31, 2018.

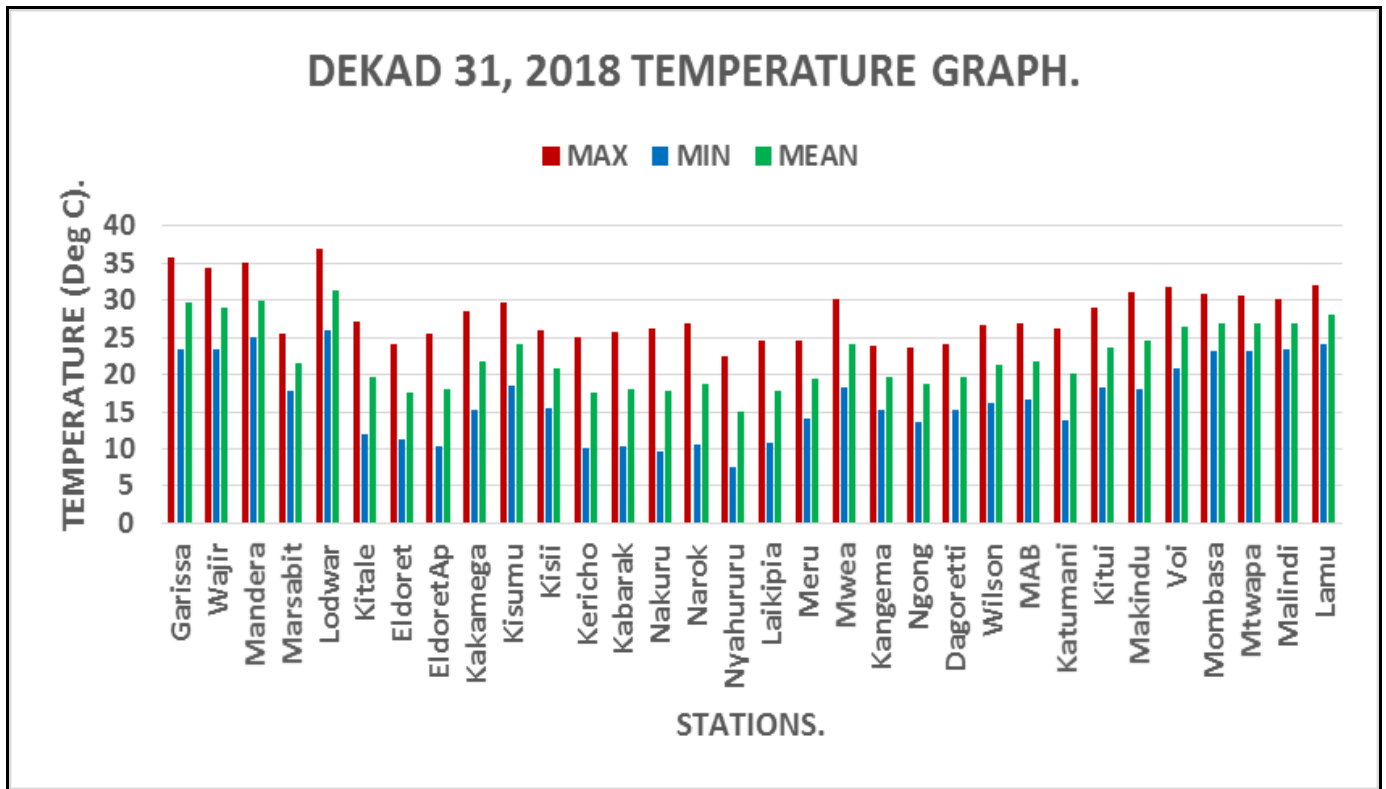


Figure 3.3: Maximum, Minimum and Average temperature for dekad 31, 2018.

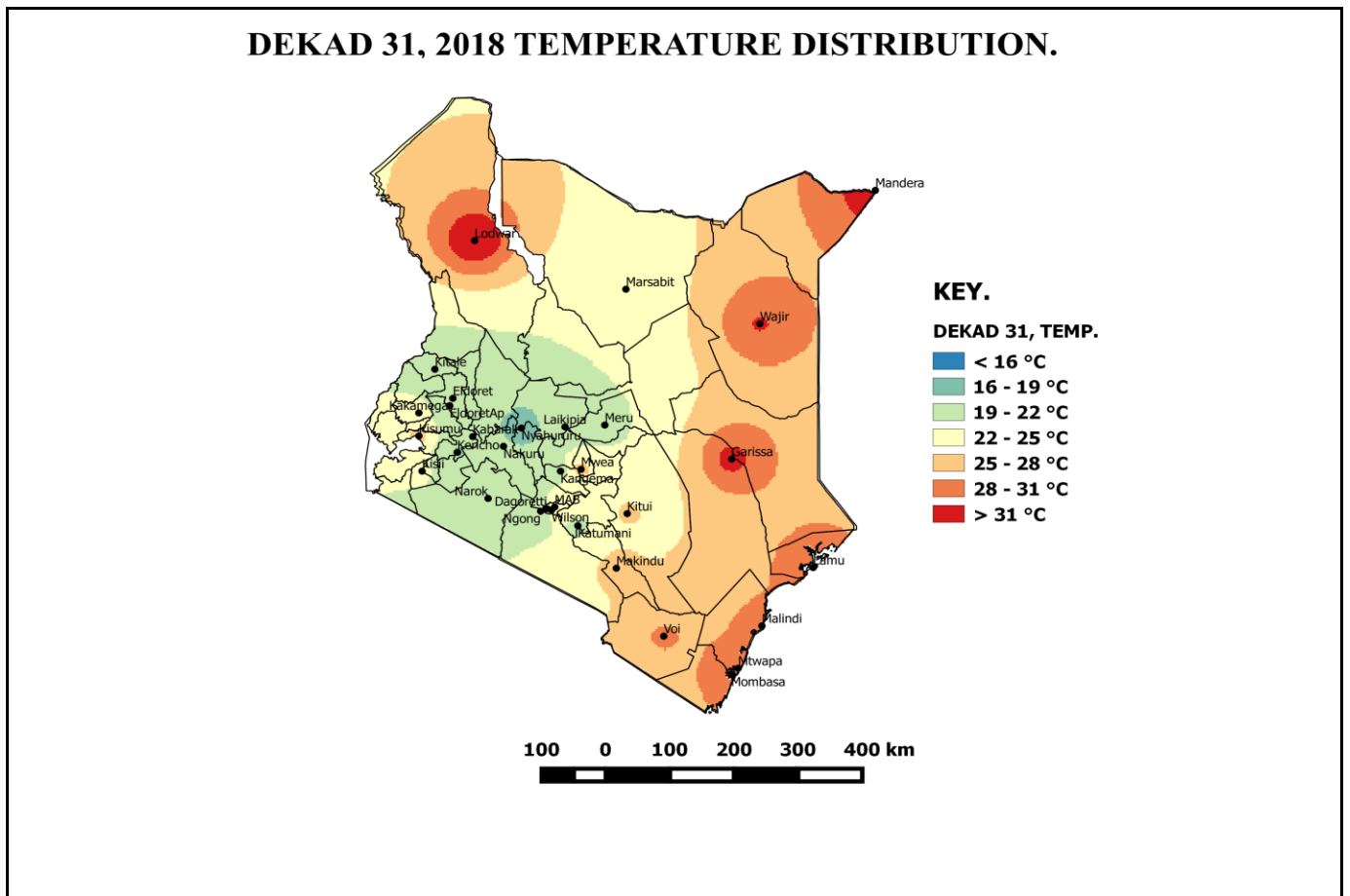


Figure 3.4: Mean temperature distribution for dekad 31, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;
11TH– 20TH, NOVEMBER 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 mainly showers and thunderstorms over few places during the forecast period.

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

The North-western counties (Turkana, West Pokot and Samburu), mornings are expected to experience sunny intervals during the first 6 days of the forecast period, followed by possibility of rains over few places thereafter. Afternoons/Evenings are expected to experience mainly sunny intervals throughout the forecast period.

The expected rains will positively impact 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 cloudiness breaking into sunny intervals throughout the forecast period. The afternoons/evenings will experience mainly a possibility of showers over few places during the forecast period.

The Showers will benefit the maize and Beans crops that are in emergence stage in places like Kabete, Thika and Meru.

North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Mornings are expected to experience mainly rains over few places during the forecast period. Afternoon/evening are expected to experience mainly showers over few places during the forecast period.

The showers will replenish the pasture for the animals kept in this region.

South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui), Are expected to experience mainly sunny intervals the entire day during the forecast period except on the 9th day where there is a possibility of showers over few places.

The wet conditions will benefit the crops that are in emergence stage and the pasture for the animals kept in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience mainly sunny intervals the entire day for the first 6 days of the forecast period, followed by a possibility of showers over few places the entire day thereafter.

The showers will benefit the crops that are in emergence stage in this region.

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