



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 31, 1ST –10TH NOVEMBER, 2017

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased drastically in intensity but maintained spatial distribution countrywide. The highest rainfall countrywide was received in Eastern region, with Meru station recording 317.6mm of rainfall compared to 193.3 and 133.1mm reported in Kitui and Embu stations in the same region in the previous dekad. Wajir station in North-Eastern region received the second highest rainfall amount of 164.5mm. Central region received the highest rainfall amount of 185.2mm at Thika station. Mombasa station in Coastal region recorded the highest rainfall amount of 169.3mm. Suba station in Nyanza region reported the highest rainfall amount of 128.0mm. Rift Valley region recorded the highest rainfall amount of 120.5mm at Kericho station. Dagoretti Headquarters in Nairobi region received 111.3mm of rainfall; while Kakamega station in Western region reported the highest rainfall amount of 88.1mm.

Both Maximum and Minimum temperatures continued on a decreasing trend. Garissa station in North-Eastern region, recorded the highest Maximum temperature of 34.4mm compared to 35.1°C reported in the same station in the previous dekad. Nyahururu station in Central region continued to record the lowest Minimum temperature of 9.4°C.

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, 2017

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

Total rainfall amount reported was 88.1mm. The Mean air temperature recorded was 21.7°C; there was no report on Sunshine duration. There was no report on total pan evaporation.

Beans were in harvesting stage and in good state hence normal yield is expected. Maize was in flowering stage and in fair state. Fall army worms still affecting maize in farms.

2.1.2 Kisii

The station recorded total rainfall amount of 83.7mm. The Mean air temperature and total Pan Evaporation recorded were 20.0°C and 37.2mm respectively. There was no report on sunshine duration.

Maize and Beans were at flowering and maturity stages respectively; both crops were in good state. Above normal yield and normal yield are expected for maize and beans respectively.

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station recorded total rainfall amount of 70.8mm. The Mean air temperature and total Pan Evaporation recorded were 19.6°C and 34.3mm respectively. Sunshine hrs reported was 6.1hrs/day.

Harvesting of maize is over.

2.2.2 Eldoret - Kapsoya

The station reported total rainfall amount of 28.0mm. The Mean air temperature and Total Pan Evaporation recorded were 17.8°C and 48.5mm respectively. There was no report on Sunshine parameter.

Most farmers have already harvested their maize and are in the process of drying it though the sunshine is not enough.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station reported 130.4mm of rainfall. The Mean air temperature and sunshine duration recorded were 18.5°C and 4.4hrs/day. There was no report on total pan evaporation.

Maize and Beans and are in emergence stage and in fair state.

2.3.2 Kabete

The station recorded 82.4mm of rainfall. Total Pan Evaporation and Sunshine duration recorded were 23.2mm and 4.3hrs/day respectively. There was no report on Mean air temperature.

Maize and beans are at emergence and in fair state;the crops are responding well to the ongoing rains except for the weeds.

2.3.3 Nyahururu

The station received 57.0mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 15.0°C and 31.0mm respectively. No report on Sunshine parameter.

Maize was still at flowering stage and in good condition, hence normal yield is expected.

2.3.4 Dagoretti

The station reported 111.3mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 18.4°C and 26.3mm respectively. Sunshine hours reported was 4.7hrs/day.

No Phenological report.

2.3.5 Thika

The station reported 185.2 mm of rainfall. Total pan evaporation recorded was 22.7mm. There was no report on Mean air temperature and Sunshine duration.

Maize, Beans and Potatoes are still at emergence state and in fair state. Beans and potatoes are in danger of being affected by excessive rainfall.

2.4 EASTERN REGION

2.4.1 Embu

The station received 127.9mm of rainfall. Total Pan Evaporation and Sunshine duration reported were 42.4mm and 6.0hrs/day respectively.

Maize and beans are at emergence and in fair state.

2.4.2 Meru

The station received 317.6mm of rainfall. The Mean Air Temperature and Sunshine duration reported were 19.3°C and 5.6 hours per day respectively. There was no report on total pan evaporation.

Maize and beans are at emergence and in good state.

2.4.3 Katumani (Machakos)

The station recorded 81.8mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 19.2°C and 47.0mm respectively. There was no report on Sunshine duration.

Planting of Maize and beans are underway in most farms.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 109.6mm of rainfall. There was no report on Mean air temperature, total Pan Evaporation and sunshine parameters.

Planting of maize is already done in most farms.

2.5.2 Mtwapa

The station recorded total rainfall amount of 158.7mm. The Mean air temperature and Sunshine duration were 26.4°C and 6.1hrs/day. There was no report on total pan evaporation.

Maize is at emergence stage and in good state. Mangoes are in dormant stage.

2.5.3 Lamu

The station reported 43.7mm of rainfall. The Mean air temperature recorded was 28.6°C. Sunshine duration was 8.9hrs/day. There was no report on total Pan Evaporation.

Cashew nuts are in flowering stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

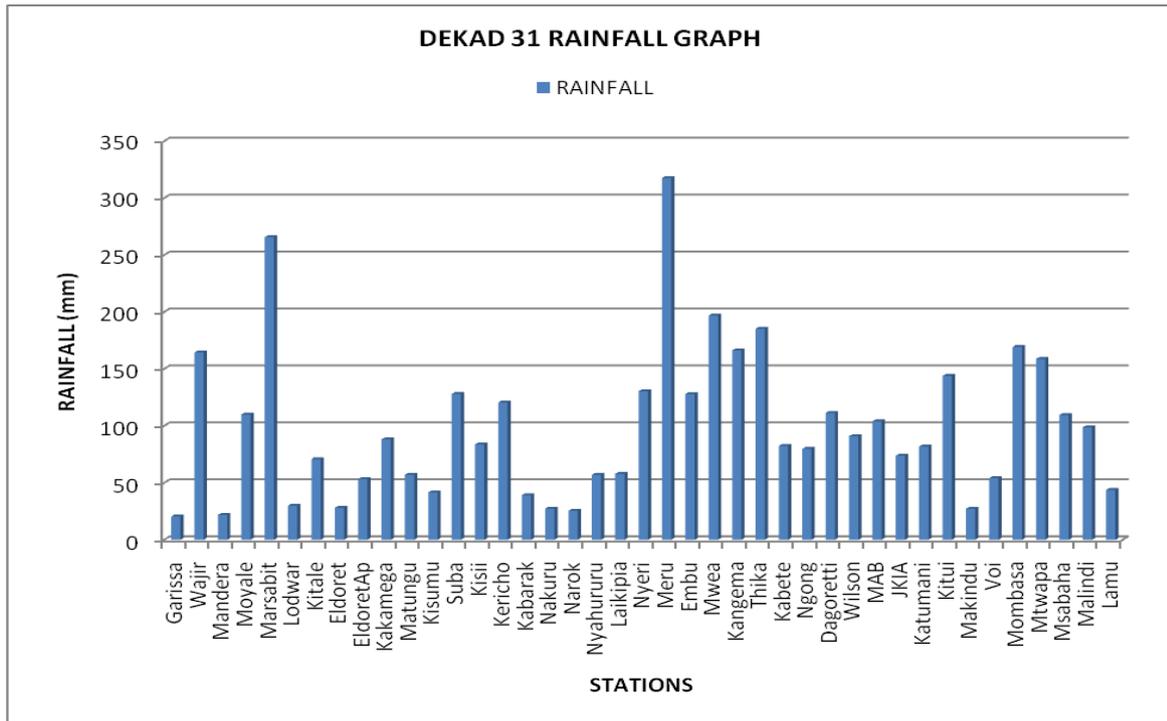


Figure 3.1: Dekadal rainfall totals for dekad 31, 2017

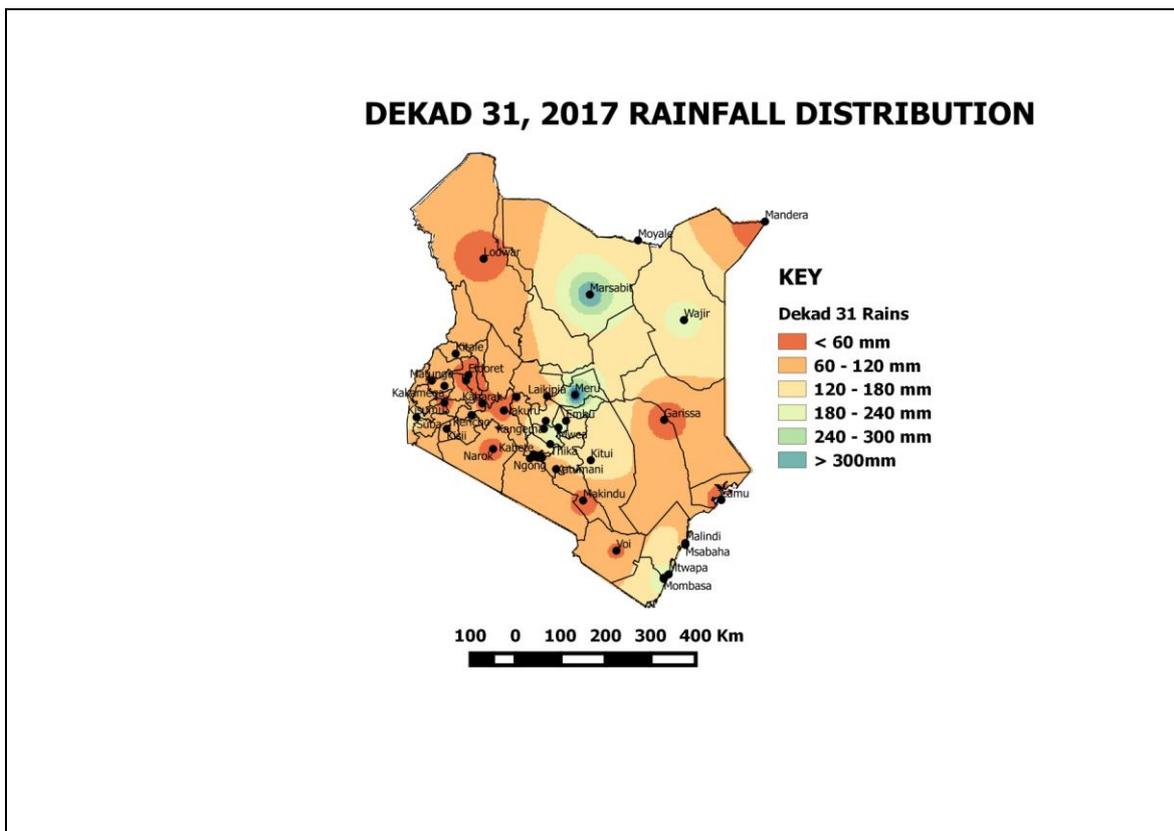


Figure 3.2: Dekadal rainfall distribution for dekad 31, 20

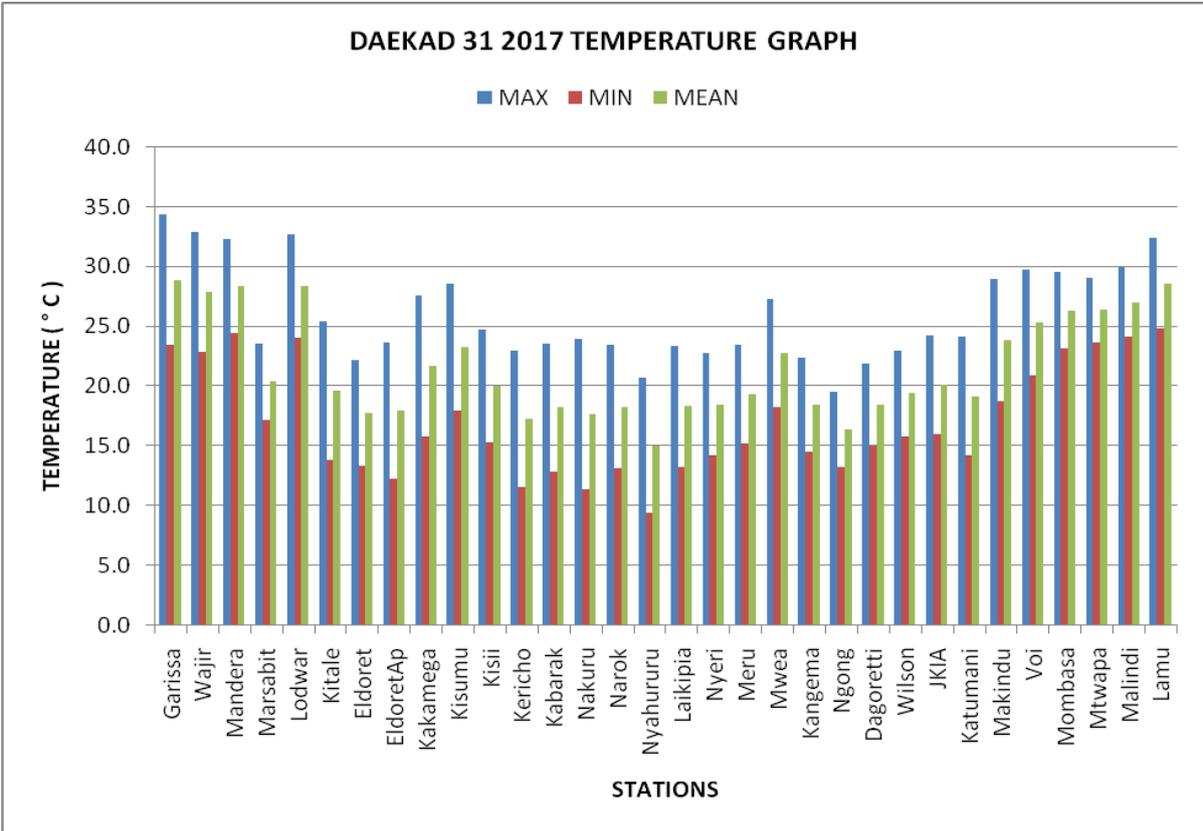


Figure 3.3: Maximum, Minimum and Average temperature for dekad 31, 2017

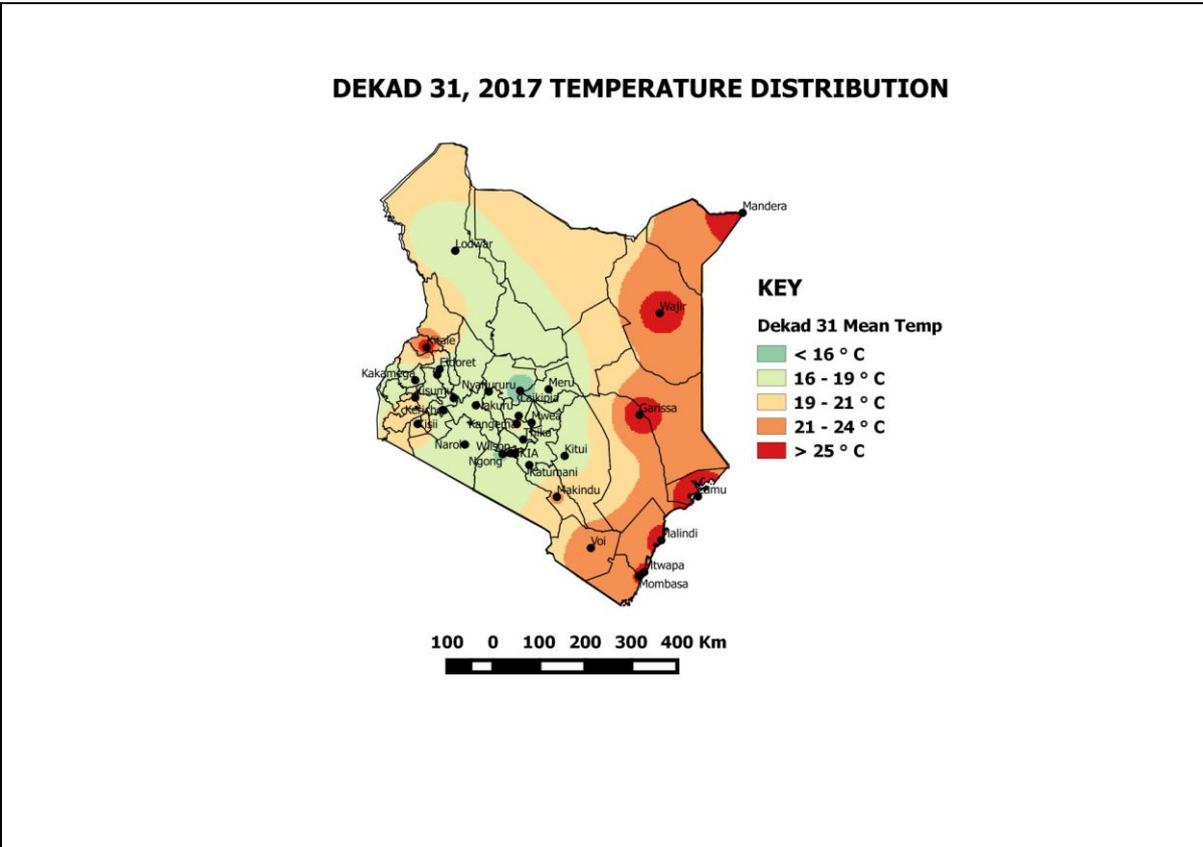


Figure 3.4: Mean temperature distribution for dekad 31, 2017

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11TH to 20TH NOVEMBER 2017.

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 on the first two days; followed by rains over few places for the rest of the forecast period. Afternoons are expected to experience showers and thunderstorms over several places throughout the forecast period.

The showers will be beneficial to the maize and Beans in flowering and maturity stages in places like Kisii and Kakamega.

The Northwestern counties (Turkana, West Pokot and Samburu), Mornings are expected to experience rains over few places for the first four days of the forecast period followed by sunny intervals thereafter. Afternoons are expected to experience mainly sunny intervals except on the 2nd 3rd and 5th days when showers and thunderstorms over few places are expected.

The showers will continue to benefit the vegetation and the pasture 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 rains over few places throughout the forecast period. Afternoons are expected to experience showers over several places throughout the forecast period.

The showers will continue benefiting the crops that are in emergence and flowering stages in places like Nyahururu, Nyeri, Thika, Kabete, Embu and Meru.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience rains over few places in the morning except on the 6th , 7th and 9th days of the forecast period. Afternoons are expected to experience showers over few places throughout the forecast period.

The showers will replenish the vegetation and pasture in these regions.

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui mornings are expected to experience rains over few places while the afternoons are expected to experience showers over several places throughout the forecast period.

The showers will have a positive impact on the vegetation and pasture for the animals kept in this region.

In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc) showers over few places are expected the entire day throughout the forecast period, except on the 5th and 6th days when we are expected to experience sunny intervals in the afternoons.

The showers will benefit the cashew nuts that are in flowering stage in Lamu and impact positively on the maize at emergence in Msabaha and Mtwapa.

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