KENYA METEOROLOGICAL SERVICE

DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 31, 1ST – 10TH NOVEMBER, 2016

1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased in intensity and maintained in spatial distribution as compared to the previous dekad. Nairobi region received the highest rainfall of 168.2mm at Kabete station compared to 80.0mm reported in the same station in the previous dekad. The second highest rainfall of 118.6mm was recorded at Kitui station in Eastern region. Central region recorded the highest rainfall amount of 118.2mm at Kangema station. Matungu station in Western region received the highest rainfall amount of 78.6mm. Nyanza region received the highest rainfall amount of 52.7mm at Suba station. Garissa station in North Eastern region reported the highest amount of rainfall of 22.5mm. Rift Valley region received the highest rainfall amount of 20.5mm at Nakuru station; while Mombasa station in Coastal region recorded the highest rainfall amount of 7.2mm.

Maximum and minimum temperatures decreased and increased respectively. Lodwar station in North Eastern region recorded the highest Maximum temperature of 36.3^{0}C compared to 37.1^{0}C recorded in same station in the previous dekad. Nyahururu station in Central region recorded the lowest Minimum temperature of 8.9^{0}C compared to 7.3^{0}C recorded in 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.

2. CROP AND WEATHER REVIEW FOR DEKAD 31, 1ST – 10TH NOVEMBER, 2016

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station received rainfall amount of 42.5mm. Pan Evaporation was 68.4mm. There was no report on mean air temperature.

Harvesting of beans is still going on, normal yield expected.

2.1.2 Kisii

The station reported total rainfall amount of 29.9mm. The mean air temperature and total Pan Evaporation recorded were 20.9°C and 40.8mm respectively.

Maize is at flowering stage and in fair condition while beans were at maturity stage and in poor condition due to attack by black aphids. Hence below normal yield is expected.

2 .2 RIFT VALLEY REGION

2.2.1 Kitale.

The station recorded total rainfall amount of 7.3mm. Total Pan Evaporation reported was 37.3mm. There was no report on mean air temperature.

No phenological report

2.2.2 Eldoret - Kapsoya

The station received 4.1mm of rainfall. The mean air temperature and total Pan Evaporation reported were 18.3°C and 57.1mm respectively.

No phenological report

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

Total amount of rainfall recorded was 19.2mm. The average air temperature reported was 19.5^{0}C. There was no report on total Pan Evaporation.

Farmers are continuing with dry planting as they wait for the rains.

2.3.2 Kabete

The station reported 168.2mm of rainfall. Total Pan Evaporation was 46.0mm. There was no report on mean air temperature.

Maize and beans were at emergence stage and in fair state; however the farms have been infested by weeds which may affect the expected yield.

2.3.3 Thika

Total amount of rainfall recorded was 74.0mm. The average air temperature and total Pan Evaporation recorded were 21.5 °C and 40.8mm respectively.

Maize, beans and potatoes are all in emergence stage and in fair condition.

2.3.4 Nyahururu

The station recorded rainfall amount of 6.0mm, the mean air temperature and total Pan Evaporation recorded were15.6^{0}C and 35.0mm respectively.

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

2.3.5 Dagoretti

The station recorded 1.5mm of rainfall. Mean air temperature and Total pan evaporation recorded were 20.6^{0}C and42.0mm respectively.

No Phenological report.

2.4 EASTERN KENYA REGION

2.4.1 Embu

The station reported 28.9mm rainfall amount. Total Pan Evaporation was 43.1mm. There was no report on Mean air temperature.

Both maize and beans were at emergence stage and in fair condition.

2.4.2 Meru

The station received 94.5mm of rainfall. The Average air Temperature and total Pan Evaporation reported were 20.1^{0}C and 45.0 mm respectively.

Planting is complete in most places.

2.4.3 Katumani (Machakos)

The station recorded 8.9mm of rainfall. The mean air temperature and total Pan Evaporation reported were 21.0^{0}C and 63.4mm respectively.

Farmers are still preparing their land and dry planting is complete in most farms.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received total rainfall amount of 5.5mm. Total Pan Evaporation reported was 61.0mm. There was no report on mean air Temperature.

Land preparation is underway.

2.5.2 Mtwapa

The station received total rainfall amount of 0.1mm. The Mean air temperature and total pan evaporation reported were 27.5^{0}C and 59.0mm respectively.

Mangoes are in flowering stage and in fair condition.

3. ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

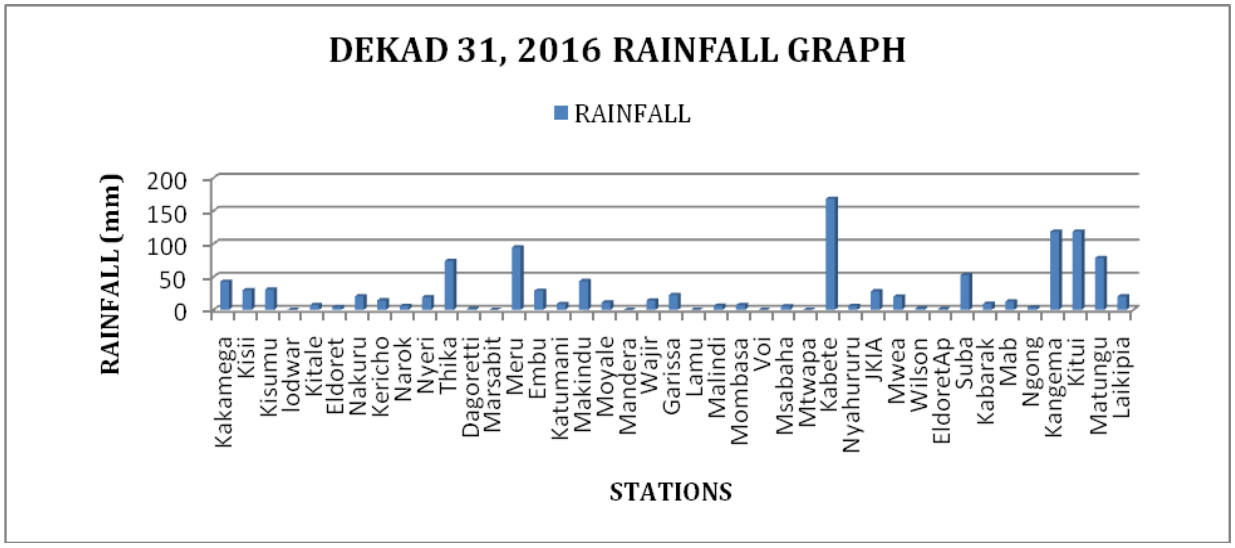

Figure 3.1: Dekadal rainfall totals for dekad 31, 2016

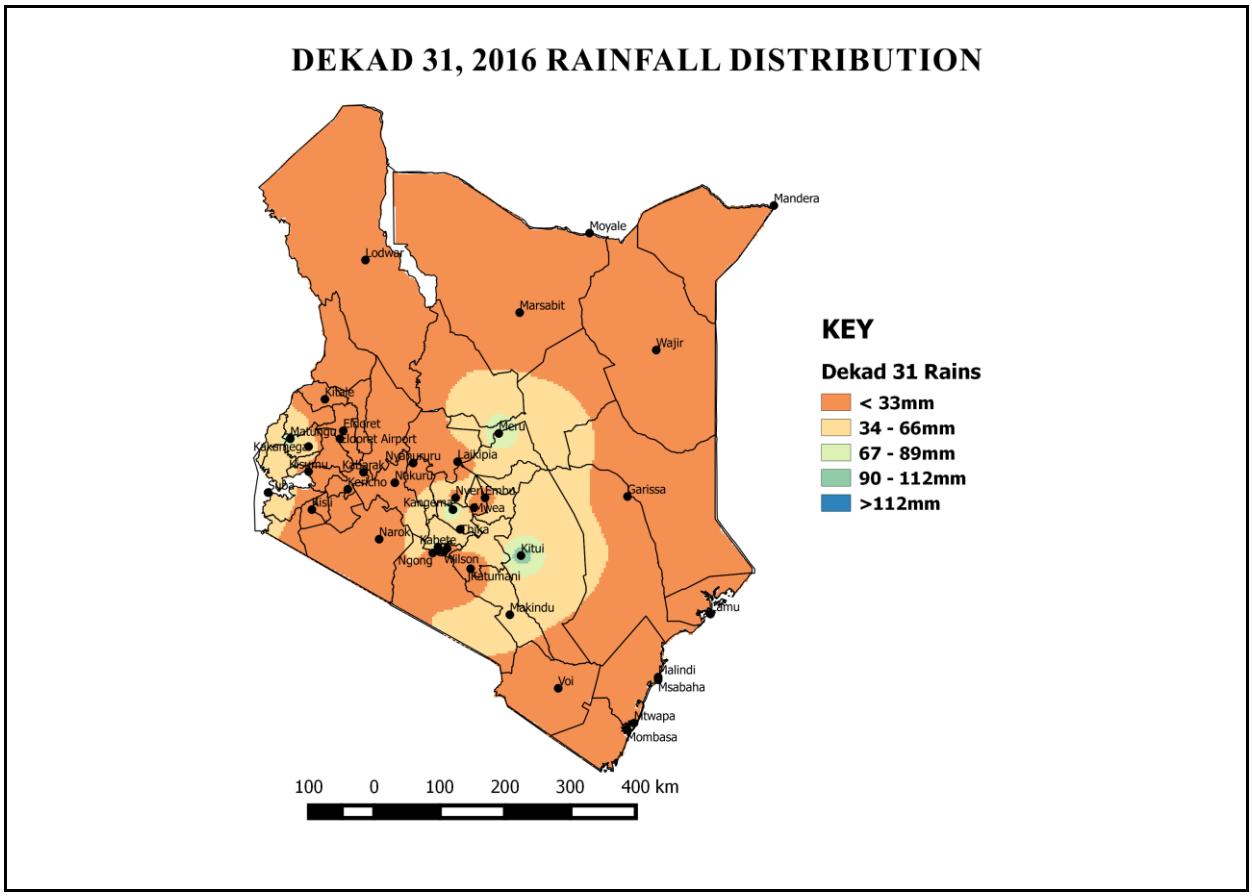

Figure 3.2: Dekadal rainfall distribution for dekad 31, 2016

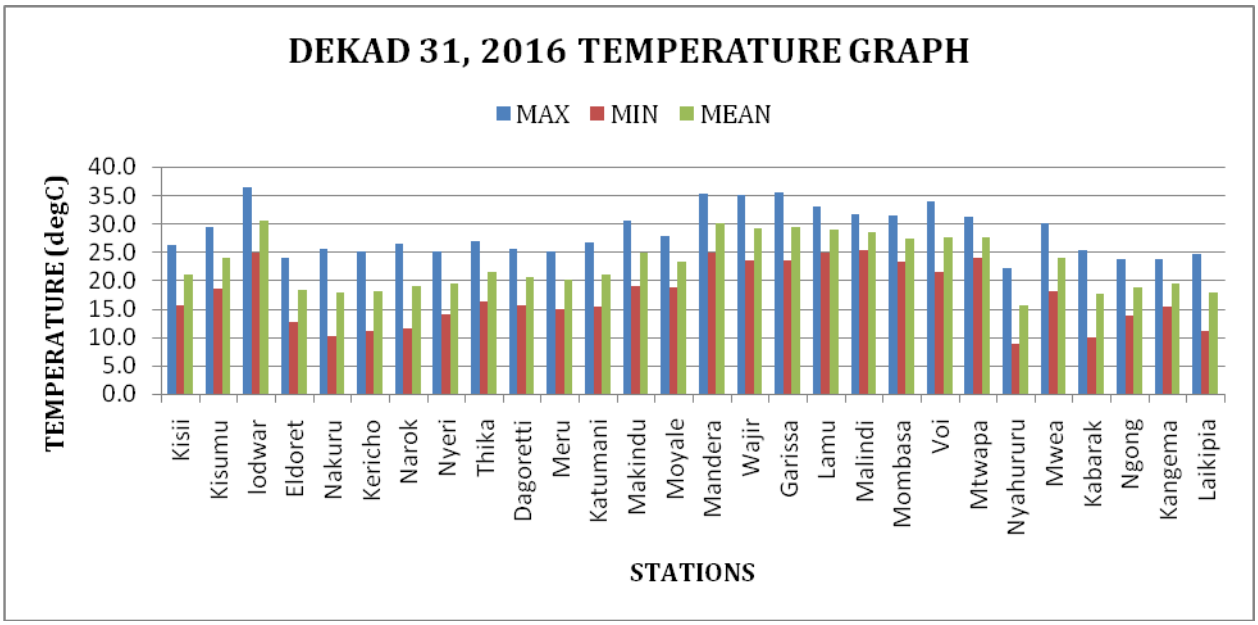

Figure3.3: Maximum, Minimum and Average temperature for dekad 31, 2016

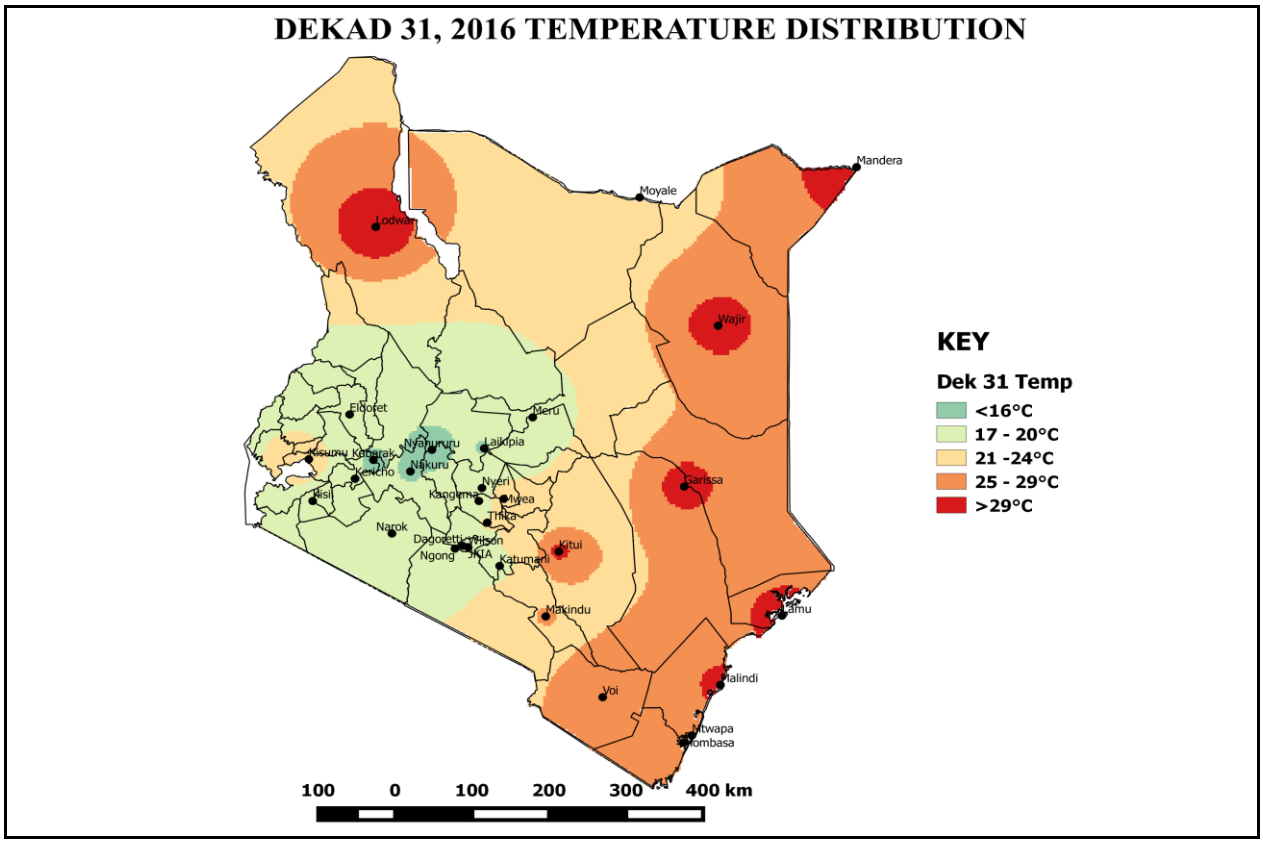

Figure 3.4: Mean temperature distribution for dekad 31, 2016

4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11th to 20th November 2016.

- **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 while afternoons are expected to experience showers and thunderstorms over few places, throughout the forecast period.

  The Showers will be of great benefit to the flowering maize in places like Kisii and Kisumu however, the beans that are at harvest stage in Kakamega will be impacted negatively.

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

  The sunny intervals continue to be of a disadvantage to the pasture and vegetation for livestock 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 sunny intervals, with a chance of rains over few places on 5th and 6th days of the forecast period. Afternoons will experience mainly occasional showers over few places throughout the forecast period.

  The showers will continue benefiting the crops that are in Emergence and flowering stages in places like Thika and Nyahururu respectively.

- **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience mainly sunny intervals in the mornings except on the fifth and sixth days of the forecast periods where showers over few places will be realized. Afternoons are expected to experience mainly showers over few places throughout the forecast period except on the first 3 days.

  The expected showers will replenish the pasture for the animals kept in these regions.

- **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)** Mornings are expected to experience sunny intervals for the first four days of the forecast period, followed by rains over few places thereafter. Afternoons are expected to experience mainly showers over few places throughout the forecast period.

  The rains and showers will replenish the vegetation and pasture for the animals kept in these areas.

- **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)** are expected to experience mainly morning showers over few places and sunny intervals in the Afternoons throughout the forecast period.

  The showers will be beneficial to the flowering mangoes in Mtwapa.

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