



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 36, 21ST – 31ST DECEMBER, 2018.

HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

There was a decrease and an increase in intensity and spatial distribution respectively of the rainfall activities countrywide. Kisii station in Nyanza region received the highest rainfall amount of 68.6 mm compared to 112.5 mm reported at Voi station in the Coastal region in the previous dekad. Rift Valley region received the highest rainfall amount of 49.2 mm at Kericho station. Kakamega station in Western region recorded the highest rainfall amount of 31.6 mm. Eastern region received the highest rainfall amount of 21.5 mm at Kitui station. Nyeri station in Central region reported the highest rainfall amount of 17.3 mm. Coastal region reported the highest rainfall amount of 15.5 mm at Voi station. Nairobi region recorded the highest rainfall amount of 9.0 mm at Moi Airbase; while Marsabit station in North Eastern region received the highest rainfall amount of 2.9mm.

Maximum and Minimum temperatures increased and decreased respectively in most stations during the dekad. The highest Maximum temperature of 36.5⁰C was recorded at Wajir station in North Eastern region compared to 35.7⁰C reported in the same station in the previous dekad.

Nyahururu station in Central region recorded the lowest Minimum temperature of 7.3⁰C compared to 9.5⁰C 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.

CROP AND WEATHER REVIEW FOR DEKAD 35, 11TH – 20TH DECEMBER, 2018.

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded Total rainfall amount of 31.6 mm. The Mean air Temperature was 22.4 mm. There were no total pan Evaporation and sunshine parameters.

There was no phenological report.

2.1.2 Kisii

The station reported Total rainfall amount of 68.6 mm. The Mean air temperature and the Total Pan Evaporation recorded were 20.9⁰C and 37.1mm respectively.

Maize was at flowering stage and in poor state as it has been affected by Fall Army Worms; hence below normal yield is expected.

2.2 RIFT VALLEY REGION.

2.2.1 Kitale.

The station recorded 1.5mm of rainfall. The Mean air temperature and Total Pan Evaporation reported were 19.6°C and 47.0mm respectively.

No phenological Report

2.2.2 Eldoret – Kapsoya.

The station recorded 5.9mm of rainfall. The Mean air temperature and Total Pan Evaporation reported were 17.9°C and 68.4mm respectively. There was no report on sunshine parameters.

No phenological Report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

2.3.1 Nyeri

The station recorded 17.3mm of rainfall. There was no report on Mean air temperature, total Pan Evaporation and Sunshine duration.

Maize and beans were in emergence and flowering stages respectively; both crops were in fair state.

2.3.2 Kabete

The station received 7.9mm of rainfall. Total Pan Evaporation was 48.4mm. There was no report on mean air temperature and sunshine duration parameters.

Maize and Beans were still in emergence and flowering stages respectively; both crops were in fair state.

2.3.3 Nyahururu

The station received 2.5mm of rainfall. The mean air temperature recorded was 14.8°C. There was no report on total Pan Evaporation and sunshine parameters.

There was no phenological Report.

2.3.4 Dagoretti

The station recorded 7.0mm of rainfall. The Mean air temperature and total Pan Evaporation were 19.6°C and 52.0mm respectively.

There was no Phenological report.

2.3.5 Thika

The station reported 0.6mm of rainfall. Total Pan Evaporation was 45.1mm. There was no report on Mean Air Temperature and sunshine parameters.

Maize and Beans were at emergence and flowering stages respectively; both crops were in fair state.

2.4 EASTERN REGION.

2.4.1 Embu

The station recorded 0.6mm of rainfall. Total Pan Evaporation recorded was 43.6mm. There was no report on Mean Air Temperature and sunshine parameters.

Both Maize and Beans were at flowering stage and in fair state.

2.4.2 Meru

There was no report on rainfall, mean air temperature, total Pan Evaporation nor sunshine parameters.

There was no phenological report.

2.4.3 Katumani (Machakos)

The station reported 0.6mm of rainfall. Mean air temperature and Total Pan Evaporation recorded were 19.7°C and 53.1mm. There was no report on sunshine parameter.

Maize and Bean crops were at emergence and flowering stages respectively; both were in good state.

2.5 COASTAL REGION.

2.5.1 Msabaha

The station recorded 0.3mm of rainfall. The Total Pan Evaporation recorded was 54.8mm. There was no report on Mean Air Temperature.

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

2.5.2 Mtwapa

The station reported dry conditions. The Mean Air temperature recorded was 28.0°C. The Total Pan Evaporation recorded was 73.0mm.

Maize and Beans were still at emergence stage and in fair state. Mangoes are in dormant stage.

2.5.3 Lamu

The station recorded 0.01mm of rainfall. The Mean air temperature recorded was 28.8 °C. There was no report on total Pan Evaporation

There was no phenological report.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

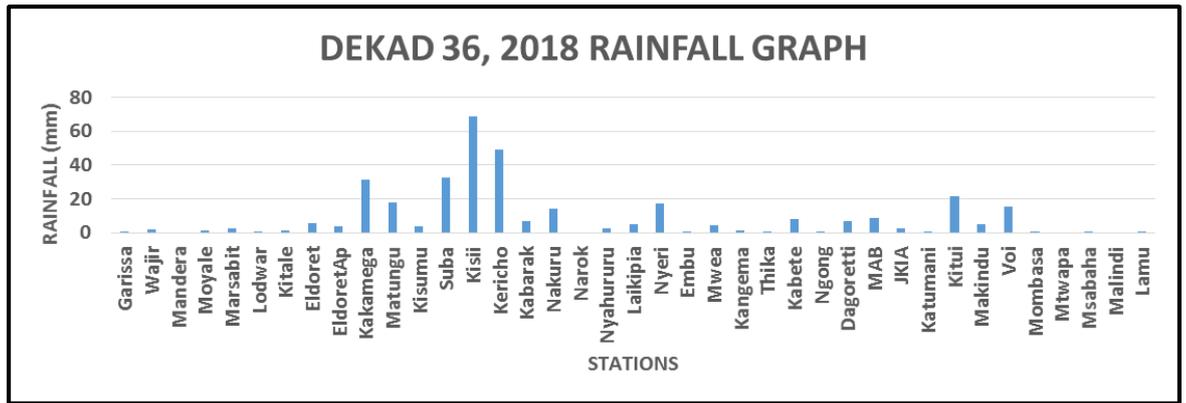


Figure 3.1: Dekadal rainfall totals for dekad 36, 2018.

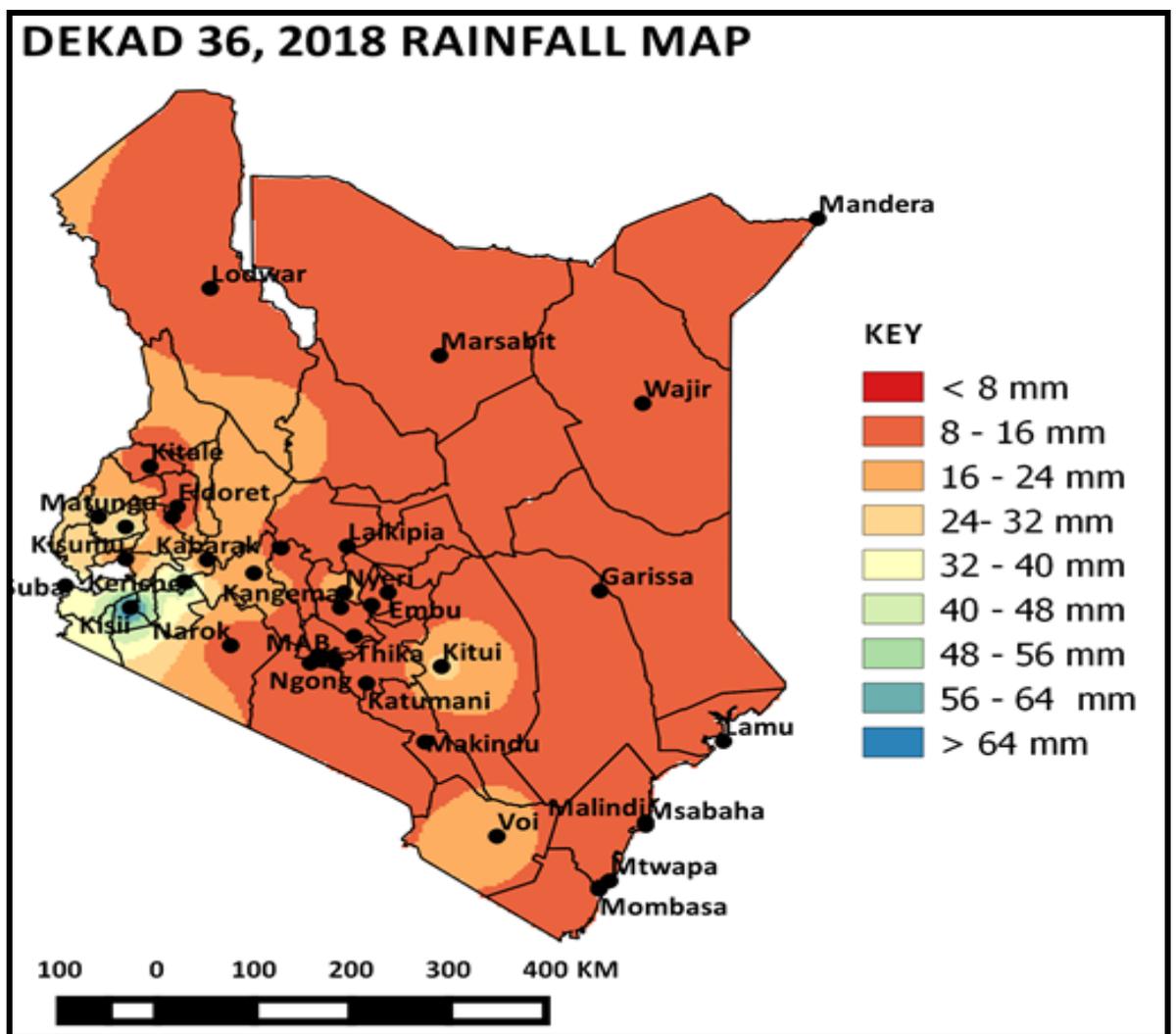


Figure 3.2: Dekadal rainfall distribution for dekad 36, 2018.

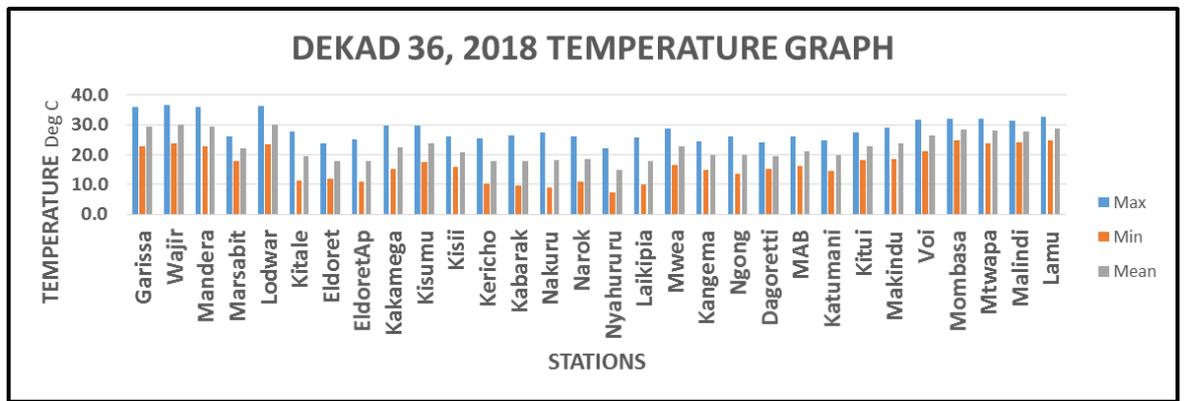


Figure3.3: Maximum, Minimum and Average temperature for dekad 36, 2018.

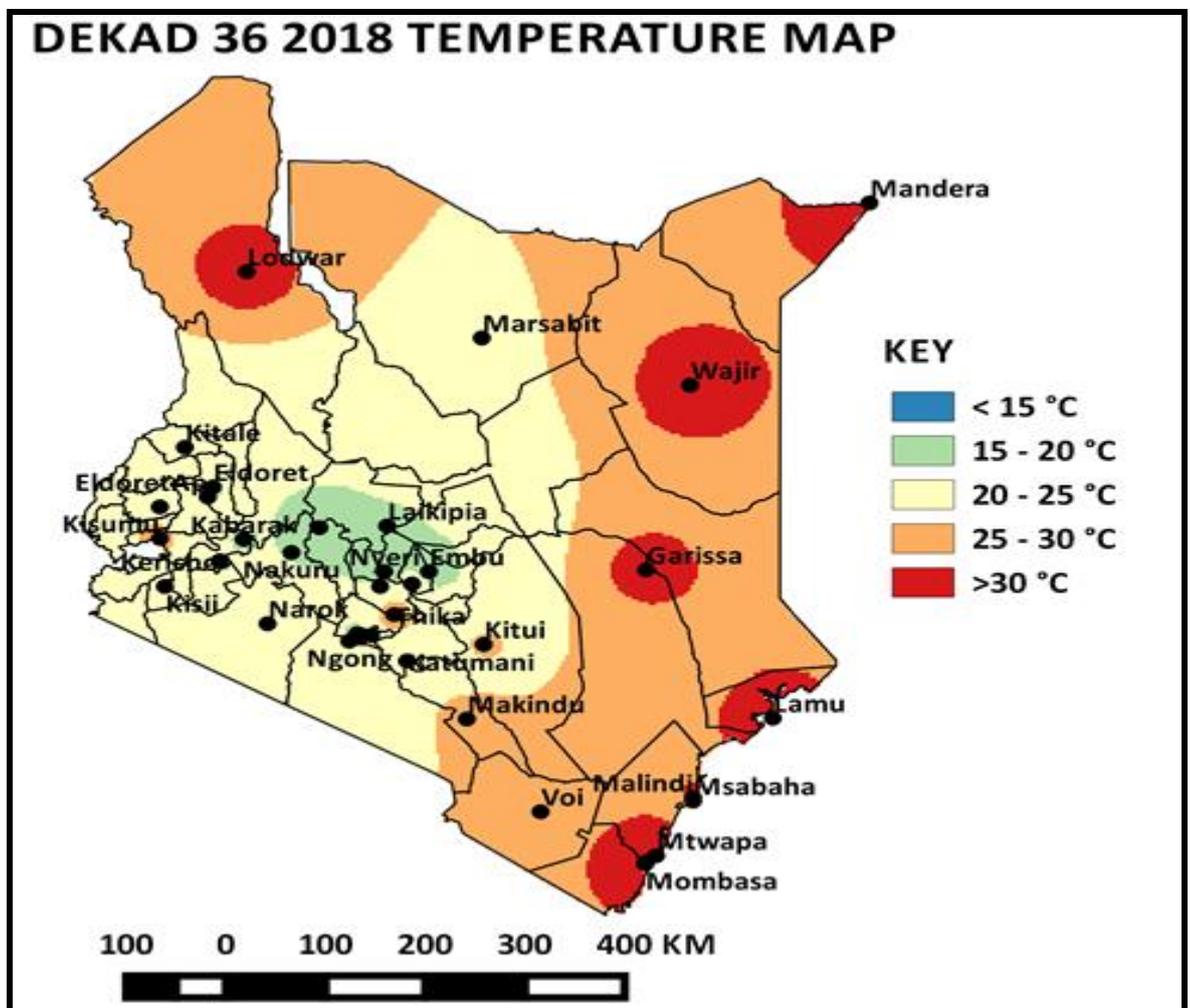


Figure 3.4: Mean temperature distribution for dekad 36, 2018.

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST– 10TH, DECEMBER 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 mainly showers and thunderstorms over few places for the first five days of the forecast period followed by sunny intervals thereafter.

The showers will benefit the crops that are at flowering stage 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 intervals will have a negative effect on the pasture and vegetation for the animals 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 cloudiness breaking into sunny intervals for the first three days of the forecast period, followed by rains over few places for the next two days and sunny intervals thereafter. Afternoons/evening are expected to experience showers over few places for the first five days of the forecast period followed by sunny intervals thereafter.

The Showers will continue to benefit maize and Beans crops that are in emergence and flowering stages in places like Kabete, Thika and Embu

North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Mornings are expected to experience rains over few places for the first five days of the forecast period, followed by sunny intervals thereafter. Afternoon/evening are expected to experience mainly showers over few places for the first four days of the forecast period, followed by sunny intervals thereafter.

The showers will continue to have a positive impact 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 mainly rains over few places for the first four days of the forecast period, followed by sunny intervals thereafter. Afternoon/Evening are expected to experience mainly showers over few places for the first six days of the forecast period, followed by sunny intervals thereafter.

The rains and showers will continue to replenish 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.) Mornings are expected to experience mainly showers over few places for the first six days of the forecast period, followed by sunny intervals thereafter. Afternoons are expected to experience Sunny intervals throughout the forecast period.

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

For feedback or further guidance, Contact:

Director,
Kenya Meteorological Department,
Agro meteorological Advisory Services Division,
Dagoretti Corner, Ngong Road,
P.O. Box 30259, 00100 GPO, Nairobi
Tel: +254 (0)20 3867880-7/3876957/3873682;
Fax: +254 (0)20 3876955
E-mail: agromet@meteo.go.ke;
Website: www.meteo.go.ke

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