



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 4, 1ST -10TH FEBRUARY, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities decreased drastically both in intensity and in spatial distribution. The highest rainfall countrywide was reported in Central region where Nyeri station received 27.4mm of rainfall. The second highest rainfall of 0.9mm was recorded at Kisii station in Nyanza region. Coastal region reported the highest rainfall amount of 0.8mm at Malindi station. Kericho station in the Rift Valley region recorded the highest rainfall amount of 0.4mm. Eastern region received the highest rainfall amount of 0.01mm at Makindu station. Stations in Nairobi, Western and North-Eastern regions reported dry conditions.

Maximum temperatures decreased in most stations during the dekad, while Minimum temperatures maintained in most stations. Lodwar station in North-Eastern region continued to report the highest temperature of 37.2°C just like in the previous dekad. Nyahururu station continued to record the lowest temperature of 6.1°C compared to 5.9°C 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 4, 1ST-10TH FEBRUARY, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station reported dry conditions. The Mean air temperature recorded was 24.2°C. Sunshine duration was 10.9hrs/day. There was no report on total Pan Evaporation.

Land preparation for long season is underway in most farms.

2.1.2 Kisii

The station recorded total rainfall amount of 0.9mm. The Mean air temperature and total Pan Evaporation recorded were 23.9°C and 47.9mm respectively. Sunshine hours reported was 8.0 hrs/day.

Most farmers have harvested their maize crop.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded 0.02mm of rainfall. The Mean air temperature and Total pan Evaporation recorded were 21.2°C and 59.0mm respectively. There was no report on Sunshine parameter.

No phenological report.

2.2.2 Eldoret - Kapsoya

The station reported dry conditions. The Mean air temperature and Total Pan Evaporation recorded were 19.0°C and 78.5mm respectively. There was no report on Sunshine parameter.

No phenological report.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 27.4mm of rainfall. The Mean air temperature recorded was 18.1°C. Sunshine duration was 10.1 hrs/day. There was no report on total Pan Evaporation.

Maize and Beans are in flowering and harvesting stages respectively. Both crops are in poor state due to insufficient rain and some diseases mainly stalk borer; hence expected yield is below normal.

2.3.2 Kabete

The station reported dry conditions. Sunshine duration was 10.0hrs/day respectively. There was no report on mean air temperature and total Pan Evaporation.

Maize is at maturity stage while beans have been harvested in many farms. Both crops are in poor state due to insufficient rainfall, hence below normal yield is expected.

2.3.3 Nyahururu

The station reported dry conditions. The mean air Temperature and total Pan Evaporation recorded were 15.6°C and 69.0mm respectively. No report on Sunshine parameter.

Maize harvesting is over in most farms and land preparation is underway

2.3.4 Dagoretti

The station reported dry conditions. The Mean air temperature and total Pan Evaporation reported were 19.4°C and 68 mm respectively. Mean Sunshine hours reported was 10.2hrs/day.

No Phenological report.

2.3.5 Thika

The station continued to report dry conditions. Total pan evaporation recorded was 66.5mm. There was no report on Mean air temperature and Sunshine duration.

Most farmers are harvesting their Maize crop.

2.4 EASTERN REGION

2.4.1 Embu

The station continued to report dry conditions. Total Pan Evaporation recorded was 66.5mm. There was no report on Mean Air Temperature and Sunshine parameters.

Maize is at flowering stage and in poor condition due to insufficient rain; hence below normal yield is expected.

2.4.2 Meru

The station reported dry conditions. The mean air Temperature and total Pan Evaporation recorded were 18.2°C and 44.0 mm respectively. Sunshine duration reported was 8.6hrs/day.

Maize is at maturity stage and in poor state due to insufficient rainfall, hence below normal yield is expected.

2.4.3 Katumani (Machakos)

The station reported dry conditions. The mean air Temperature recorded was 20.5°C. Total Pan Evaporation reported was 72.5mm. There was no report on Sunshine duration.

Maize was at maturity stage and in poor state due to insufficient rainfall, hence below normal yield is expected.

2.5 COASTAL REGION

2.5.1 Msabaha

The station recorded 0.4 mm of rainfall. Total Pan Evaporation recorded was 48.4mm. Sunshine duration reported was 7.9 hrs/day. There was no report on mean air Temperature.

Most farmers are harvesting their Maize crop.

2.5.2 Mtwapa

The station continued to report dry conditions. The mean air Temperature and total Pan Evaporation recorded were 27.2°C and 69 mm respectively. Sunshine duration was 8.1hrs/day.

Some farmers are harvesting their Maize crop.

2.5.3 Lamu

The station continued to report dry conditions. The Mean air temperature recorded was 27.7°C. Sunshine duration was 8.5hrs/day. There was no report on total Pan Evaporation.

Cashew nuts have been harvested.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

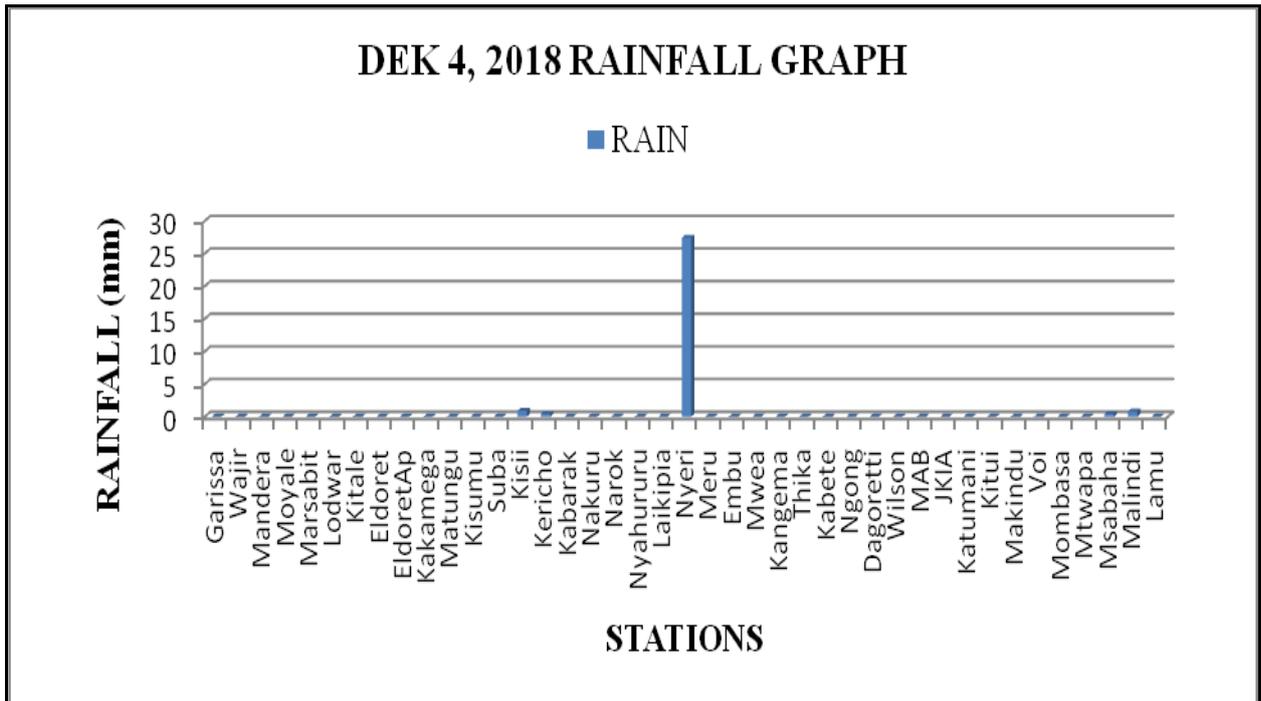


Figure 3.1: Dekadal rainfall totals for dekad 4, 2018

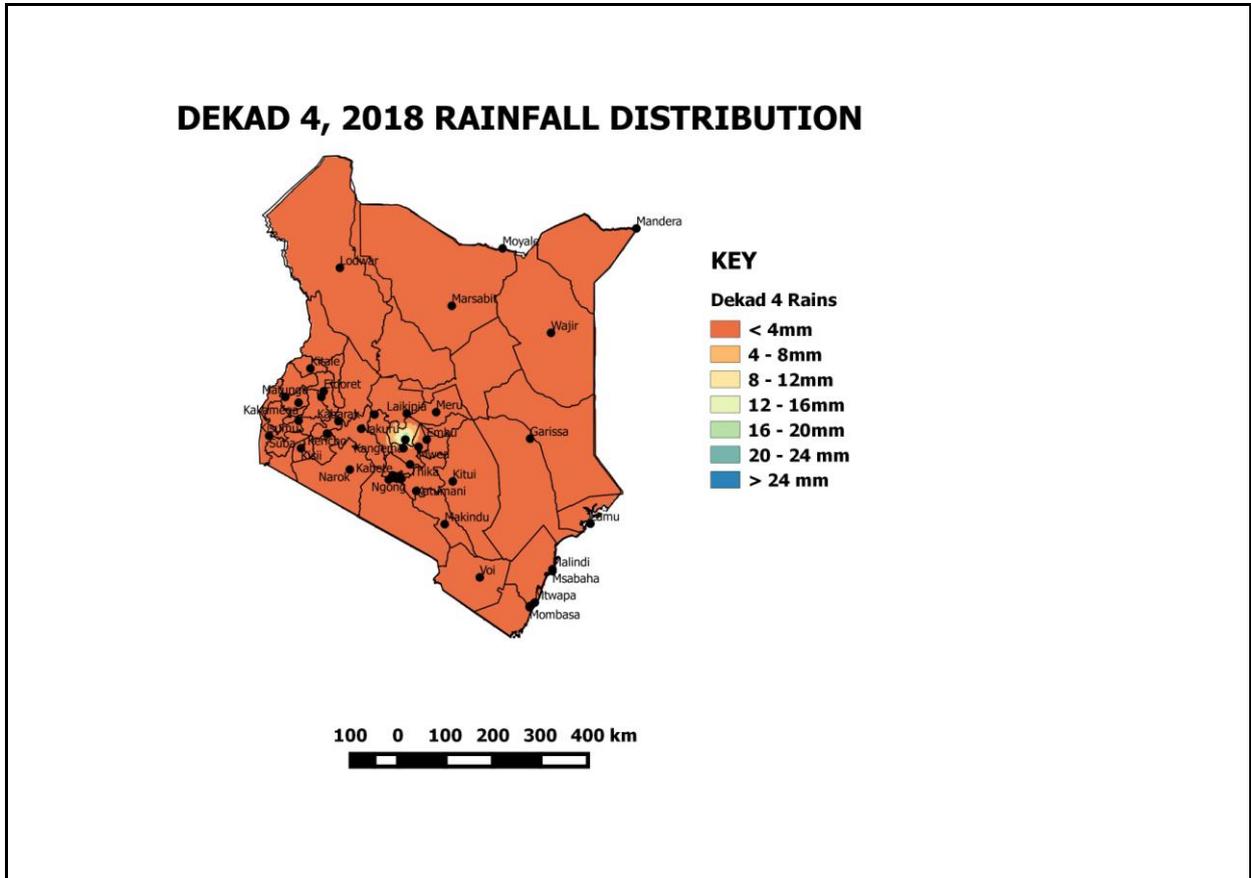


Figure 3.2: Dekadal rainfall distribution for dekad 4, 2018

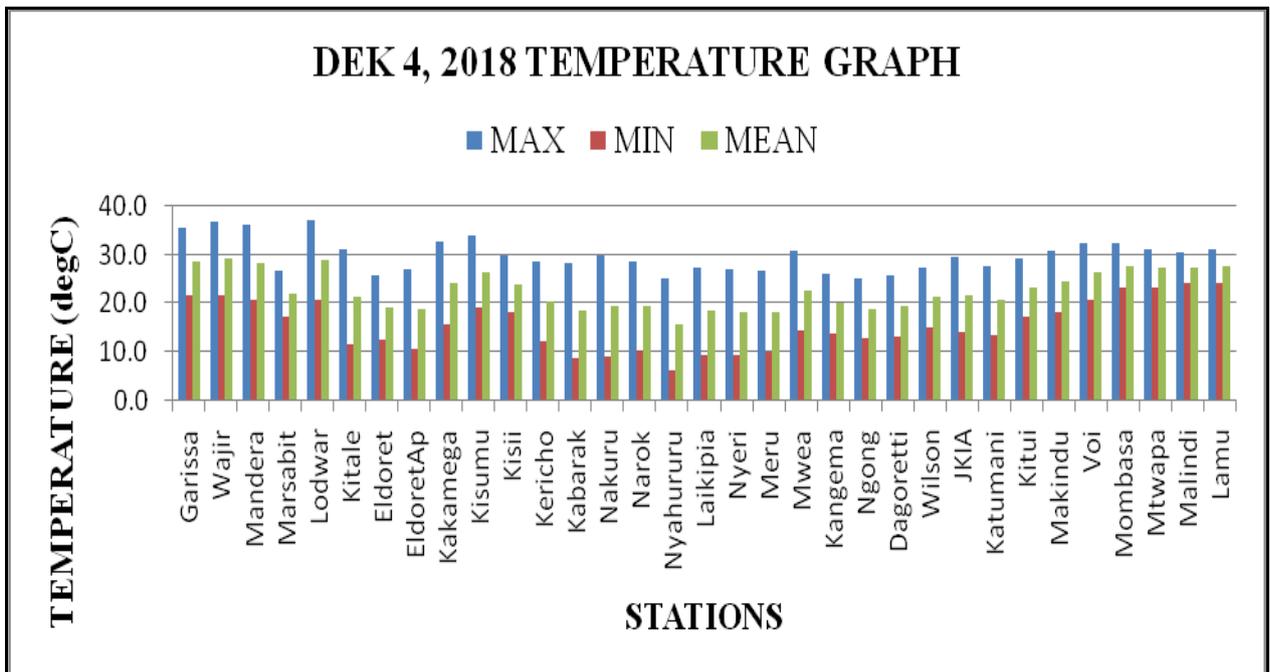


Figure 3.3: Maximum, Minimum and Average temperature for dekad 4, 2018

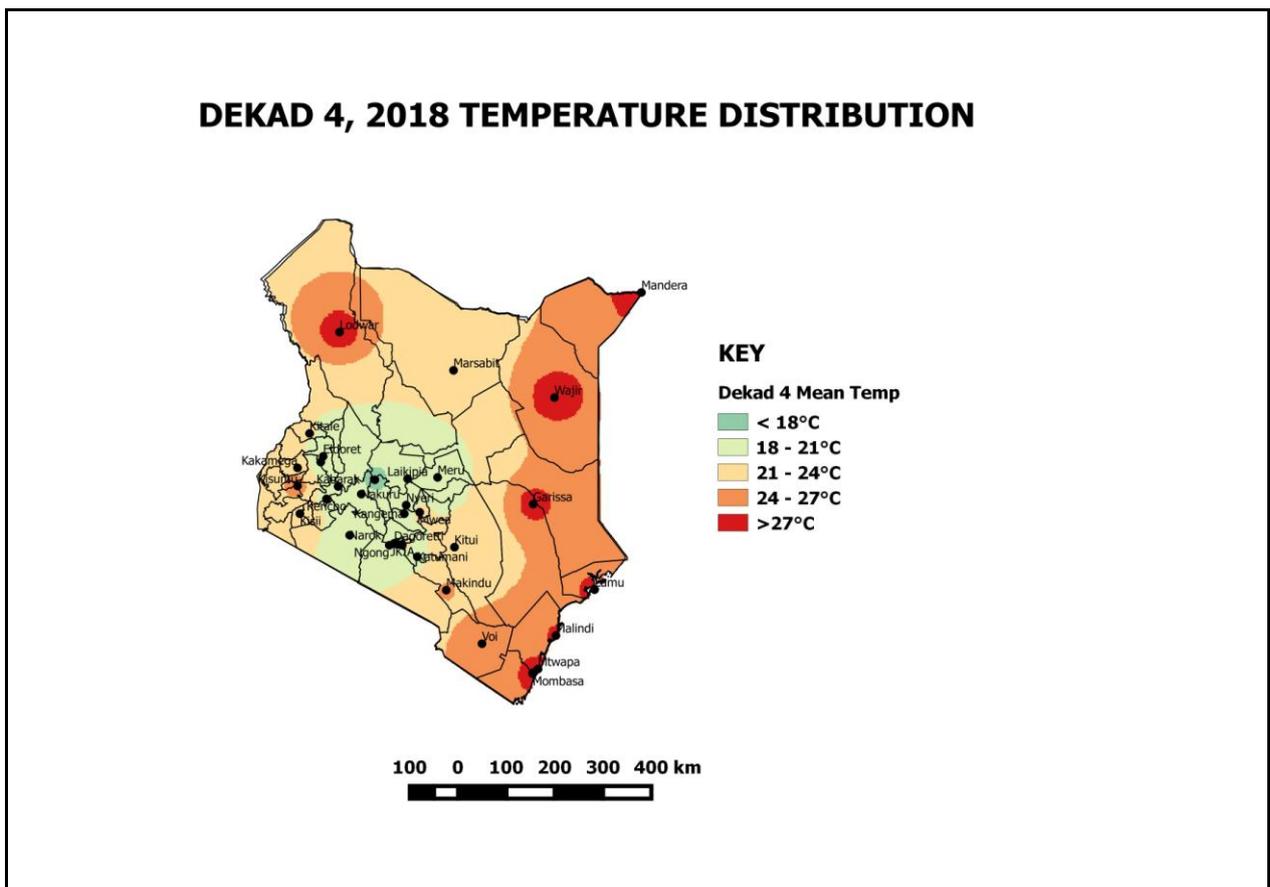


Figure 3.4: Mean temperature distribution for dekad 4, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11TH to 20TH FEBRUARY 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), expected to experience mainly sunny intervals the entire day throughout the forecast period except on the 8th day where morning rains over few places and afternoon showers and thunderstorms over few places may be realized.

The rains and showers will replenish the vegetation in these areas.

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

The sunny conditions continue to have a negative impact on 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), expected to experience mainly sunny intervals the entire day throughout the forecast period except on the 8th day where afternoon showers over few places may be realized.

The showers will of great benefit to the crops in flowering stage in places like Nyeri and Embu; while the sunny conditions will enhance the drying of crops that are in maturity stage in places like Kabete and Meru.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), are expected to experience sunny intervals the entire day throughout the forecast period except on the 8th where morning rains over few places and afternoon showers over few places may realized.

The expected rains will have a positive impact on the pasture for the animals kept in this region.

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui) are expected to experience sunny intervals the entire day throughout the forecast period.

The dry conditions will continue to have a negative impact on the vegetation and pasture for the animals kept in this region.

Coastal strips (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc) are expected to experience mainly sunny intervals the entire day throughout the forecast period.

The sunny conditions will enhance the drying of maize, which is at harvest stage in places like Mtwapa and Msabaha.

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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