



KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 13, 1ST-10TH MAY, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities generally decreased in intensity and maintained in spatial distribution countrywide. Lamu and Mtwapa stations in the Coastal region reported the highest rainfall amounts of 360.0mm and 347.8mm respectively, compared to 391.8 mm received at Kangema station in Central region in the previous dekad. Kangema station in Central region received the highest rainfall amount of 266.3 mm. Rift valley region reported the highest rainfall amount of 171.0 mm at Kabarok station. Kabete station in the Nairobi region recorded the highest rainfall amount of 135.4 mm. Eastern region received the highest rainfall amount of 125.0 mm at Meru station. Kakamega station in the Western region reported 94.1 mm of rainfall. North Eastern region received the highest rainfall amount of 78.1 mm at Marsabit station; while Kisii station in Nyanza region received 64.8 mm of rainfall.

Maximum temperatures increased while Minimum temperatures decreased drastically in most stations. The highest temperature of 34.5°C was recorded at Lodwar station in North-Eastern region compared to 33.1°C reported in Mandera Station in the same region in the previous dekad.

The lowest Minimum temperature of 9.9 °C was recorded at Nyahururu station in Central region compared to 10.8 °C reported at 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 1ST-10TH MAY, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 94.1mm of rainfall. The Mean air temperature reported was 21.7°C.

There was no report on total Pan Evaporation and sunshine duration.

Maize were at emergence stage and in good state while beans were at flowering stage and in fair state as they have been affected by excessive rainfall.

2.1.2 Kisii

The station reported total rainfall amount of 64.8mm. The Mean air temperature and total Pan Evaporation recorded were 20.3°C and 41.8mm respectively. There was no report on Sunshine parameter.

Maize and beans were both at emergence and flowering stages respectively; both crops were in fair state and some farmers have completed weeding.

2.2 RIFT VALLEY REGION

2.2.1 Kitale.

The station received 79.4 mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 19.8°C and 29.9 mm respectively. Sunshine duration reported was 6.3 hours /day.

Both Maize and beans were still at emergence stage and in good state; weeding is underway.

2.2.2 Eldoret - Kapsoya

The station reported 55.6 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 17.7°C and 42.0 mm respectively. There was no report on Sunshine parameter.

Maize was still at emergence stage and in good state

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 184.4 mm of rainfall. The Mean air temperature and Sunshine duration reported were 19.1°C and 6.6hours/day respectively; there was no report on total Pan Evaporation.

Maize and beans were still at emergence and flowering stages respectively. Both crops were in fair state; some farmers have completed weeding.

2.3.2 Kabete

The station recorded 135.4 mm of rainfall. The Total Pan Evaporation and sunshine duration reported were 24.9 mm and 3.5hours/day respectively. There was no report on mean air temperature.

Both Maize and beans were at flowering stage and in good state; the crops were responding well though the rains were excessive.

2.3.3 Nyahururu

The station received 57.5mm of rainfall. The Mean air temperature recorded was 15.8°C. There was no report on sunshine parameter.

Both Maize and beans were still at emergence stage and in fair state.

2.3.4 Dagoretti

The station received 98.6mm of rainfall. The Mean air temperature and Total Pan Evaporation reported were 18.6°C and 19.5mm respectively. There was no report on Sunshine parameter.

No Phenological report.

2.3.5 Thika

The station recorded 97.6mm of rainfall. The Total Pan Evaporation reported was 52.6mm and there was no report on Mean air temperature.

Maize, beans and potatoes were all at flowering stage and in fair state; flooding in some areas have affected the performance of beans.

2.4 EASTERN REGION

2.4.1 Embu

The station received 106.3 mm of rainfall. Total Pan Evaporation recorded was 25.9mm while sunshine duration was 6.0 hours/day. There was no report on Mean Air Temperature.

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

2.4.2 Meru

The station received 125.0mm of rainfall. The mean air Temperature was 18.9^oC. There were no reports on sunshine duration and the Total Pan Evaporation.

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

2.4.3 Katumani (Machakos)

The station received 31.2mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 19.5^oC and 31.7mm respectively. There was no report on Sunshine duration.

Maize and beans were at emergence and flowering stage respectively. Both crops were in good state.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 164.2mm of rainfall. Total Pan Evaporation recorded was 31.7mm. There was no report on mean air Temperature and sunshine duration.

Maize was still at emergence stage and fair state and there was sufficient rainfall in the dekad.

2.5.2 Mtwapa

The station received 347.8mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 25.5^oC and 16.8mm respectively. There was no report on sunshine parameter.

Maize was still at emergence stage and in good state.

2.5.3 Lamu

The station recorded 360.0mm of rainfall. The Mean air temperature and the Sunshine duration reported were 26.4^oC and 2.7hours/day respectively; there was no report on total Pan Evaporation.

The fields were flooded.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

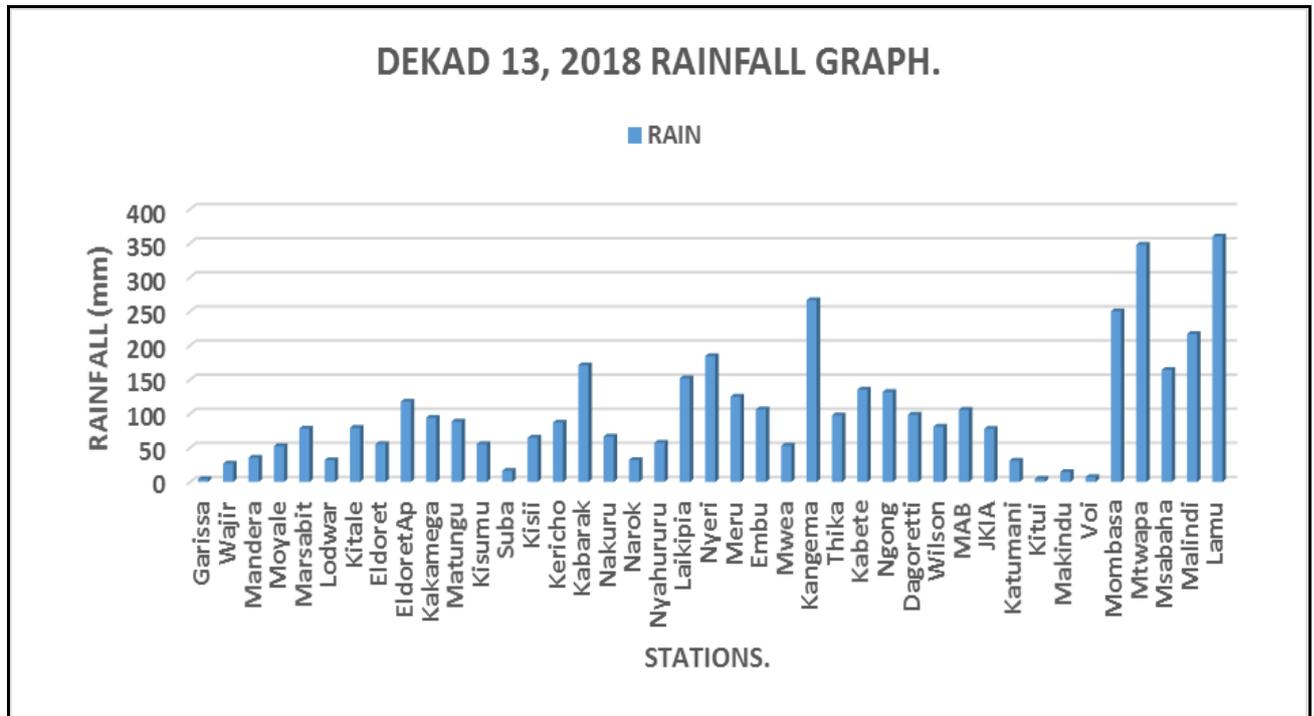


Figure 3.1: Dekadal rainfall totals for dekad 13, 2018

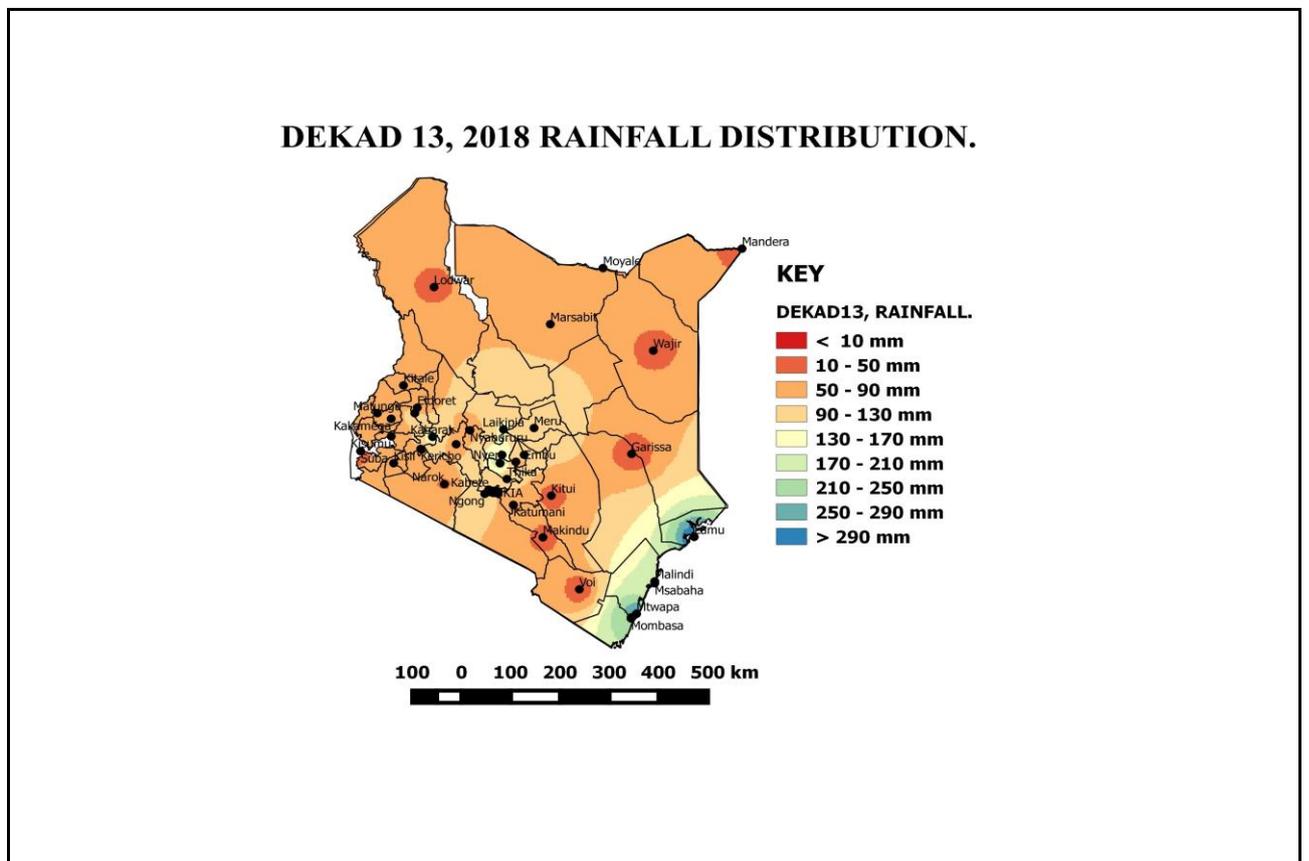


Figure 3.2: Dekadal rainfall distribution for dekad 13, 2018

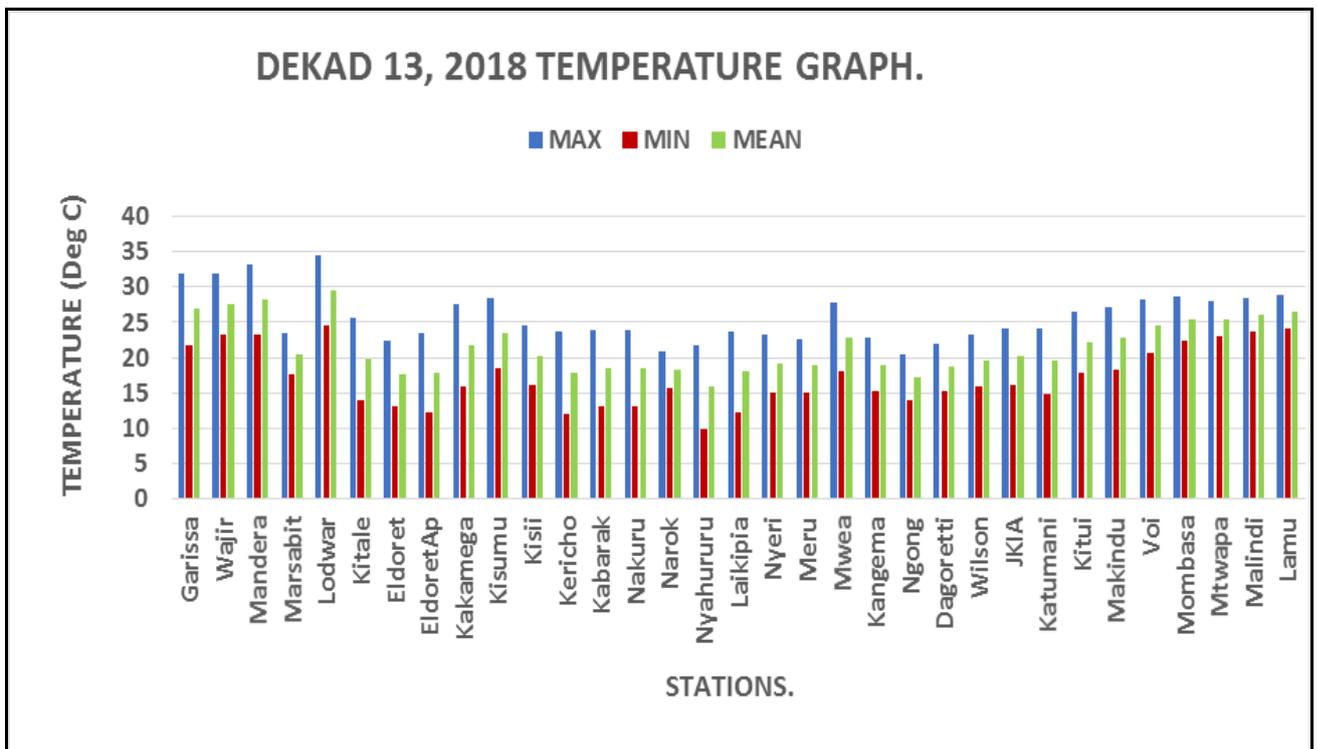


Figure 3.3: Maximum, Minimum and Average temperature for dekad 13, 2018

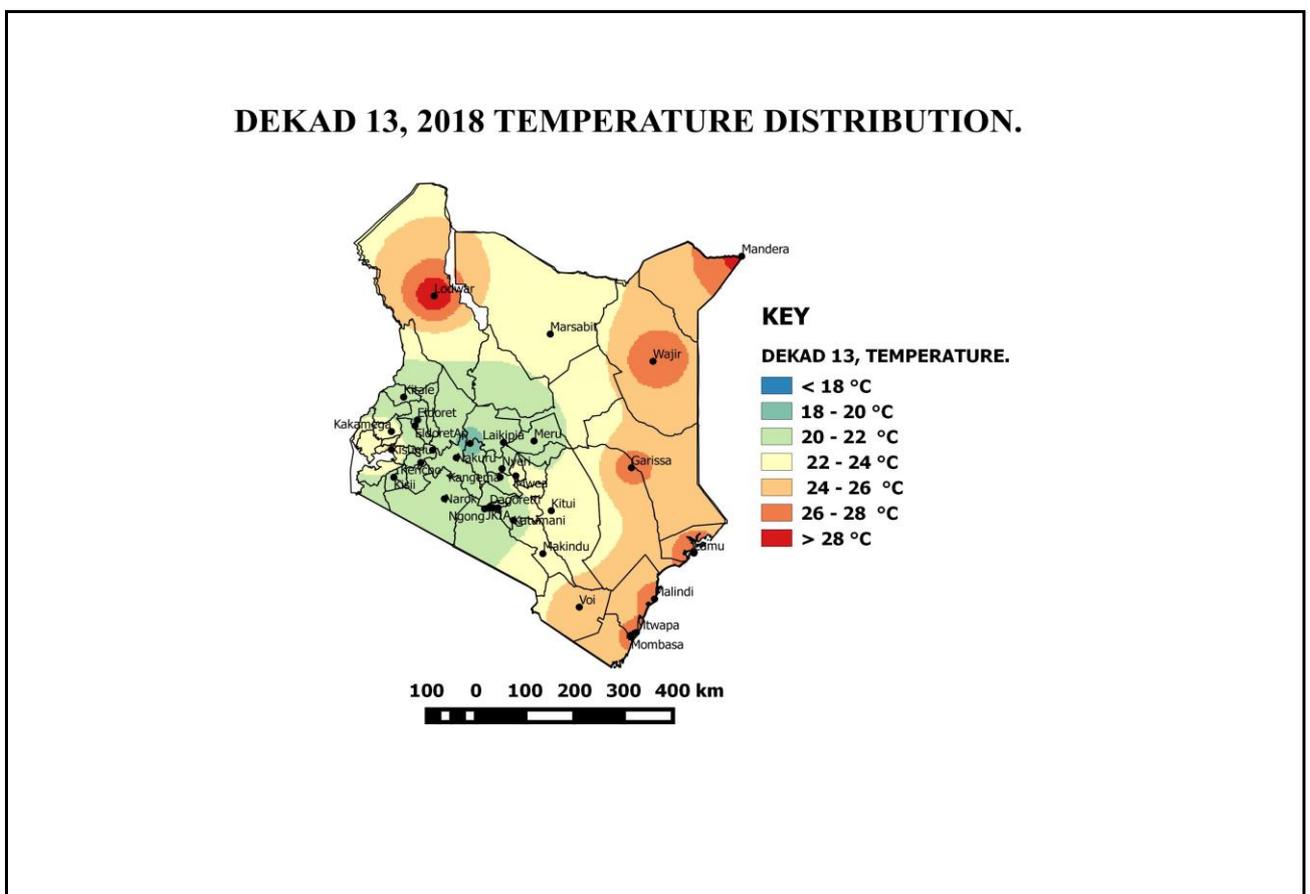


Figure 3.4: Mean temperature distribution for dekad 13, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11ST – 20TH MAY 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 with a possibility of rains over few places on the fifth and sixth days.

Afternoons/Evenings are expected to experience showers and thunderstorms over several places throughout the forecast period.

The showers and rains will continue to benefit the crops that are in emergence and flowering stages in places like Kisumu, Kisii, and Kakamega etc.

The Northwestern counties (Turkana, West Pokot and Samburu), Mornings are expected to experience sunny intervals for the first three days of the forecast period followed by rains over few places thereafter. Afternoons are expected to experience sunny intervals for the first two days of the forecast period followed by Showers and thunderstorms over few places thereafter.

The showers and rains will continue to replenish 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), are expected to experience cloudy mornings with rains over few places giving way to sunny intervals throughout the forecast period. Afternoons are expected to experience showers over few places on the first two days of the forecast period increasing to several places thereafter.

The wet conditions will benefit the crops that are in emergence and flowering stages in places like Kabete, Thika, Embu, Nyeri, Nyahururu and Meru.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Mornings are expected to experience mainly sunny intervals for most of the forecast period except on the fifth and sixth days when there is a possibility of rains over few places. Afternoons are expected to experience sunny intervals throughout the forecast period except on the fifth, sixth and tenth days when showers over few places are expected.

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

Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui) Mornings are expected to experience mainly sunny intervals except on the fourth and fifth day when there is a possibility of rains over few places. Afternoons are expected to experience mainly sunny intervals except on the fifth and tenth days when we expect showers over few places.

The rains and showers will continue to replenish the vegetation and pasture for the animals kept and benefit the crops that are at emergence and flowering stages in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience showers over few places the entire day for most of the forecast period except on the eighth day when showers are expected over several places.

The showers and rains are of great benefit to the maize that are in emergence 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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