



KENYA METEOROLOGICAL DEPARTMENT
DEKADAL AGROMETEOROLOGICAL BULLETIN
WEATHER AND CROP REVIEW FOR DEKAD 11, 11TH-20TH APRIL, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Generally, rainfall activities countrywide increased in intensity and maintained in spatial distribution; though the leading stations, recorded a reduction in rainfall compared to the one reported in the previous dekad. The highest rainfall amount of 214.4mm and 188.1mm was received in Eastern region at Meru and Embu stations respectively; compared to 283.8mm reported at Kakamega station in Western region in the previous dekad. Garissa station in North Eastern region recorded the highest rainfall amount of 186.4mm. Rift Valley region recorded the highest rainfall amount of 175.9 mm at Laikipia Airbase station. Matungu station in Western region reported the highest rainfall amount of 156.2 mm. Central region received the highest rainfall amount of 149.3 mm at Nyeri station. Suba station in Nyanza region reported 146.8 mm amount of rainfall; Nairobi region reported the highest rainfall amount of 129.9mm at Thika station; while Lamu station in Coastal region received 69.5 mm of rainfall.

Maximum temperatures continued to decrease in most stations; while minimum temperatures remained on an increasing trend. Wajir station in North-Eastern region recorded the highest temperature of 31.9^oC, compared to 34.1^oC that was reported in the same station in the previous dekad; The lowest minimum temperature of 11.0 ^oC was recorded at Nyahururu station compared to 10.5^oC 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 11TH-20TH APRIL, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 146.8mm of rainfall. The Mean air temperature recorded was 21.0^oC. There was no report on total Pan Evaporation and sunshine duration.

Maize and beans were at emergence and flowering stages respectively and in good state.

2.1.2 Kisii

The station recorded total rainfall amount of 100.3mm. The Mean air temperature and total Pan Evaporation recorded were 19.2^oC and 21.8mm respectively. No report on Sunshine parameter.

Maize and beans were both in emergence stage and in fair state.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded 133.3mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 19.1°C and 21.4mm respectively. Sunshine hours reported were 3.5 hours/day.

Maize and beans were in emergence stage and good state. Some farmers are still planting.

2.2.2 Eldoret - Kapsoya

The station recorded 121.9mm of rainfall. The Mean air temperature recorded was 17.1°C. There was no report on total Pan Evaporation and Sunshine parameter.

Maize was at emergence stage and in fair state.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 149.3mm of rainfall. The Mean air temperature recorded was 19.6°C. Sunshine duration was 4.7hrs/day. There was no report on total Pan Evaporation.

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

2.3.2 Kabete

The station recorded 121.2mm of rainfall. Total Pan Evaporation recorded was 39.2mm. There was no report on mean air temperature.

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

2.3.3 Nyahururu

The station received 50.0 mm of rainfall. The mean air temperature recorded was 16.0°C. There was no report total Pan Evaporation and Sunshine parameter.

Maize and beans were at emergence stage and in fair state. Potatoes too were at emergence stage and in fair state.

2.3.4 Dagoretti

The station received 105.4mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 19.2°C and 52.7mm respectively. There was no report on Sunshine parameter.

No Phenological report.

2.3.5 Thika

The station recorded 129.9mm of rainfall. Total Pan Evaporation recorded was 40.5mm. There was no report on Mean air temperature and Sunshine duration.

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

2.4 EASTERN REGION

2.4.1 Embu

The station received 188.1mm of rainfall. Total Pan Evaporation recorded was 24.2mm. Sunshine hours was 5.2hrs/day. There was no report on Mean Air Temperature.

Maize and beans were in emergence and flowering stages respectively. Both crops were in fair state. Weeding is underway.

2.4.2 Meru

The station received 214.4mm of rainfall. The mean air Temperature and total Pan Evaporation recorded were 19.8°C and 48.9 mm respectively. There was no report on sunshine duration.

Maize and beans were in emergence and flowering stages respectively. Both crops were in fair state. Weeding is underway.

2.4.3 Katumani (Machakos)

The station received 75.0mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 19.9°C and 41.0mm respectively. There was no report on Sunshine parameter.

Maize and beans were at emergence and flowering stages respectively and in good state.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 53.6mm of rainfall. Total Pan Evaporation recorded was 37.1mm. There was no report on mean air Temperature and Sunshine duration.

Maize was at emergence stage and in fair state.

2.5.2 Mtwapa

The station received 36.5mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 27.0°C and 41.2mm respectively. There was no report on Sunshine parameter.

Maize was at emergence stage and in good state.

2.5.3 Lamu

The station recorded 69.5mm of rainfall. The Mean air temperature recorded was 28.3°C. There was no report on total Pan Evaporation and Sunshine parameter.

Maize was at emergence stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

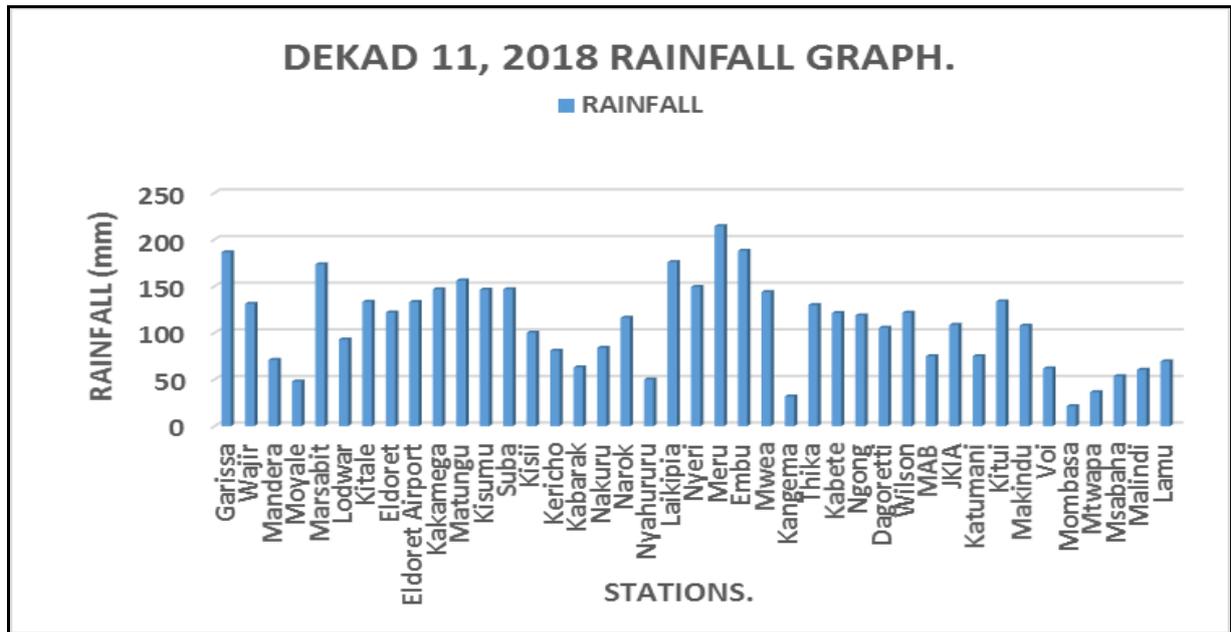


Figure 3.1: Dekadal rainfall totals for dekad 11, 2018

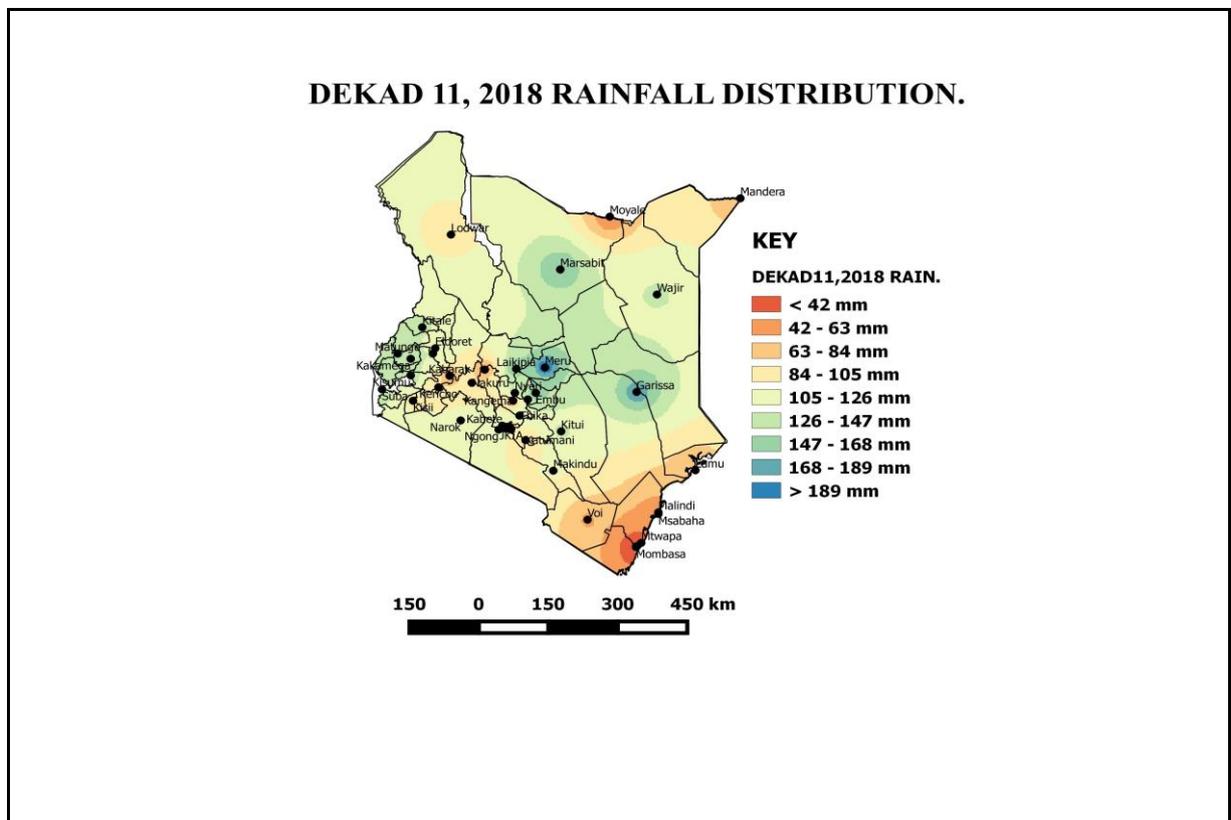


Figure 3.2: Dekadal rainfall distribution for dekad 11, 2018

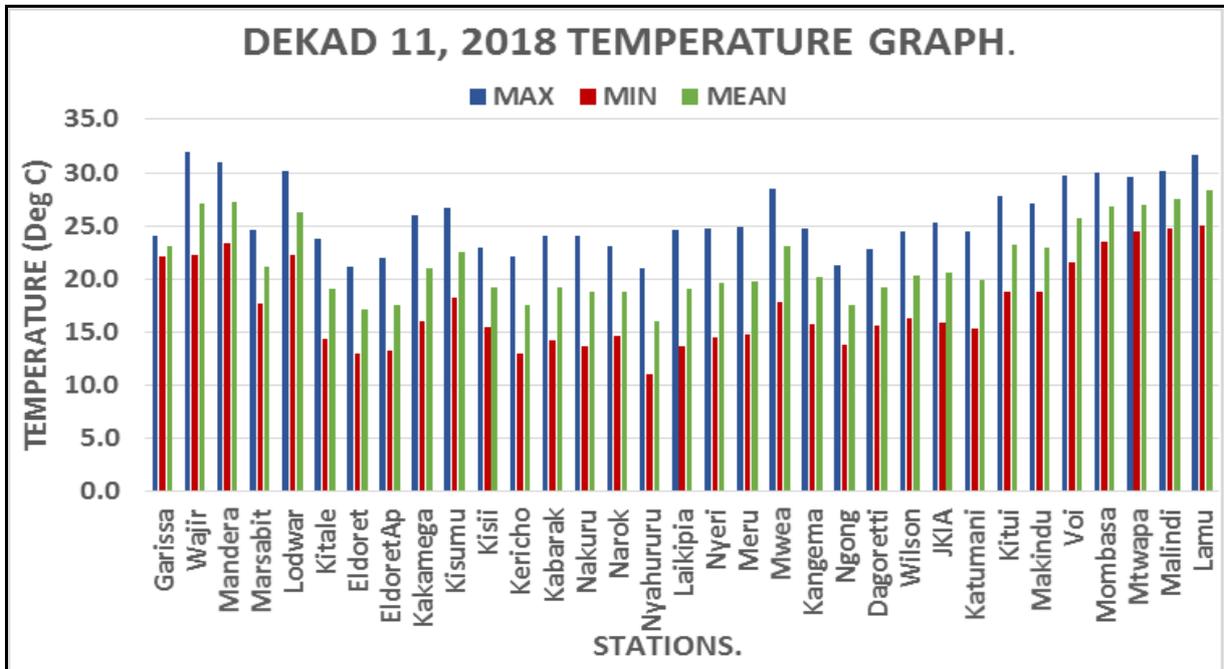


Figure 3.3: Maximum, Minimum and Average temperature for dekad 11, 2018

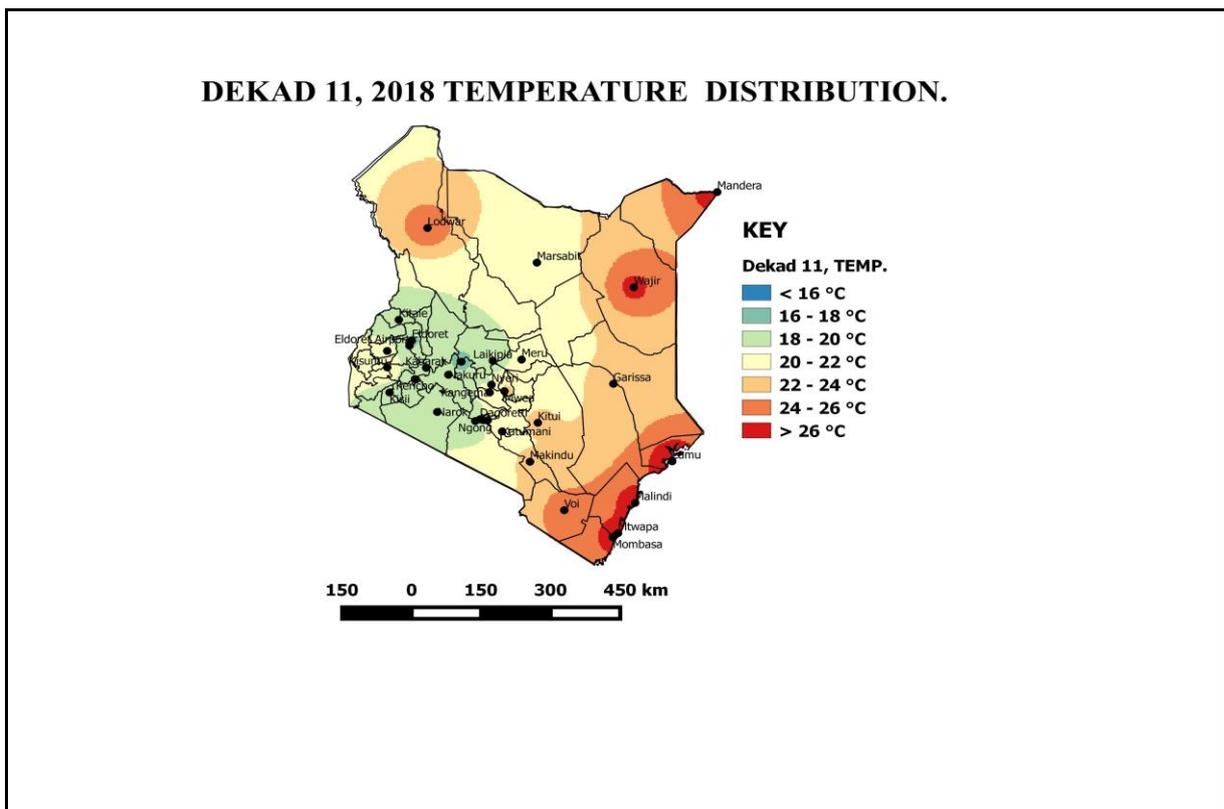


Figure 3.4: Mean temperature distribution for dekad 11, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST – 30TH APRIL 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 rains over few places for much of the forecast period except for the last two days which will have sunny intervals.

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 mainly rains over few places for much of the forecast period. Afternoons are expected to experience showers and thunderstorms over few places for much of the forecast period.

The showers and rains will continue to have a positive impact to 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 for the first seven days of the forecast period reducing to few places thereafter.

The rains and showers will be very beneficial to the crops that are in emergence and flowering stages in places like, Thika, Nyahururu, Embu, Nyeri, Meru and Kabete.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Mornings are expected to experience mainly rains over few places throughout the forecast period. Afternoons are expected to experience mainly showers and thunderstorms over few places throughout the forecast period.

The showers and rains will continue to replenish the pasture for the animals kept in this region.

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

The rains and showers will continue to have a positive impact to the vegetation and pasture for the animals and benefit the crops that are at emergence and flowering stages in places like Katumani.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) Mornings are expected to experience showers over few places for much of the forecast period. Afternoons are expected to experience showers over few places for the first eight days increasing to several places thereafter.

The showers and rains are of great benefit to the maize that are in emergence stage in places like Mtwapa.

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