



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 12, 21ST-30TH APRIL, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased drastically both in intensity and in spatial distribution countrywide. The highest rainfall of 391.8 mm was received in Central region at Kangema station, compared to 214.4 mm reported at Meru station in Eastern region in the previous dekad. The second highest rainfall of 256.4 mm was recorded at Embu station in Eastern region. Nairobi region received the highest rainfall amount of 192.4 mm at Kabete station. Coastal region reported the highest rainfall amount of 187.7 mm at Mtwapa station. Narok station in the Rift Valley region recorded the highest rainfall amount of 159.6 mm. Nyanza region received the highest rainfall amount of 138.4 mm at Suba station. North Eastern region reported 128.5 mm of rainfall at Marsabit station; while Matungu station in Western region received 128.3 mm of rainfall.

Both Maximum and Minimum temperatures continued to decrease and increase respectively in most stations. The highest temperature of 33.1°C was recorded at Mandera station in North-Eastern region. The lowest Minimum temperature of 10.8°C was reported at Nyahururu station in Central region.

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 21ST-30TH APRIL, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 122.8mm of rainfall. The Mean air temperature recorded was 21.5°C.

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

Maize and beans were both at emergence and flowering stages respectively; both crops were in good state and farmers were topdressing the crops.

2.1.2 Kisii

The station recorded total rainfall amount of 53.6mm. The Mean air temperature and total Pan Evaporation recorded were 19.9°C and 23.6mm respectively. No report on Sunshine parameter.

Maize and beans were both at emergence and flowering stages respectively; both crops were in good state and most farmers had completed weeding.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station recorded 102.8 mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 19.9°C and 32.3 mm respectively. There was no report on Sunshine parameter.

Maize and beans were still at emergence and in good state.

2.2.2 Eldoret - Kapsoya

The station recorded 122.3mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 17.9°C and 39.8mm respectively. There was no report on Sunshine parameter.

Maize was still at emergence stage and in fair state.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

2.3.1 Nyeri

The station received 104.4mm of rainfall. The Mean air temperature recorded was 18.9°C. There was no report on total Pan Evaporation and sunshine duration.

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

2.3.2 Kabete

The station recorded 192.4 mm of rainfall. Total Pan Evaporation was 23.4mm. There was no report on mean air temperature and sunshine parameter.

Maize and beans were still at emergence and in poor state because of excessive rainfall.

2.3.3 Nyahururu

The station received 44.6mm of rainfall. The mean air temperature recorded was 16.0°C. There was no report on sunshine parameter.

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

2.3.4 Dagoretti

The station received 152.9mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 18.9°C and 41.4mm respectively. There was no report on Sunshine parameter.

No Phenological report.

2.3.5 Thika

The station recorded 172.9mm of rainfall. There was no report on Mean air temperature and total Pan Evaporation. The total sunshine duration recorded was 4.7hrs/day.

Maize and beans were at emergence and flowering stages respectively and both were in fair state; potatoes were at emergence stage and in fair state; farmers are still weeding.

2.4 EASTERN REGION

2.4.1 Embu

The station received 256.4mm of rainfall. Total Pan Evaporation recorded was 13.3mm. There was no report on Mean Air Temperature and sunshine duration.

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

2.4.2 Meru

The station received 158.5mm of rainfall. The mean air Temperature was 19.1⁰C. There was no report on sunshine duration and the total Pan Evaporation reported was 37.0mm.

Maize was at emergence stage and in good state; Beans were at flowering stage and in fair state. Both crops are being affected by excessive rainfall.

2.4.3 Katumani (Machakos)

The station received 101.9mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 19.5⁰C and 27.7mm respectively. There was no report on Sunshine duration.

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

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 105.0mm 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 fair state and there was sufficient rainfall in the dekad.

2.5.2 Mtwapa

The station received 187.7mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 27.5⁰C and 41.2mm respectively. The Sunshine duration recorded was 7.9hrs/day.

Maize was still at emergence stage and in good state.

2.5.3 Lamu

The station recorded 107.7mm of rainfall. The Mean air temperature recorded was 28.3⁰C. There was no report on total Pan Evaporation and Sunshine duration.

Maize was still at emergence stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

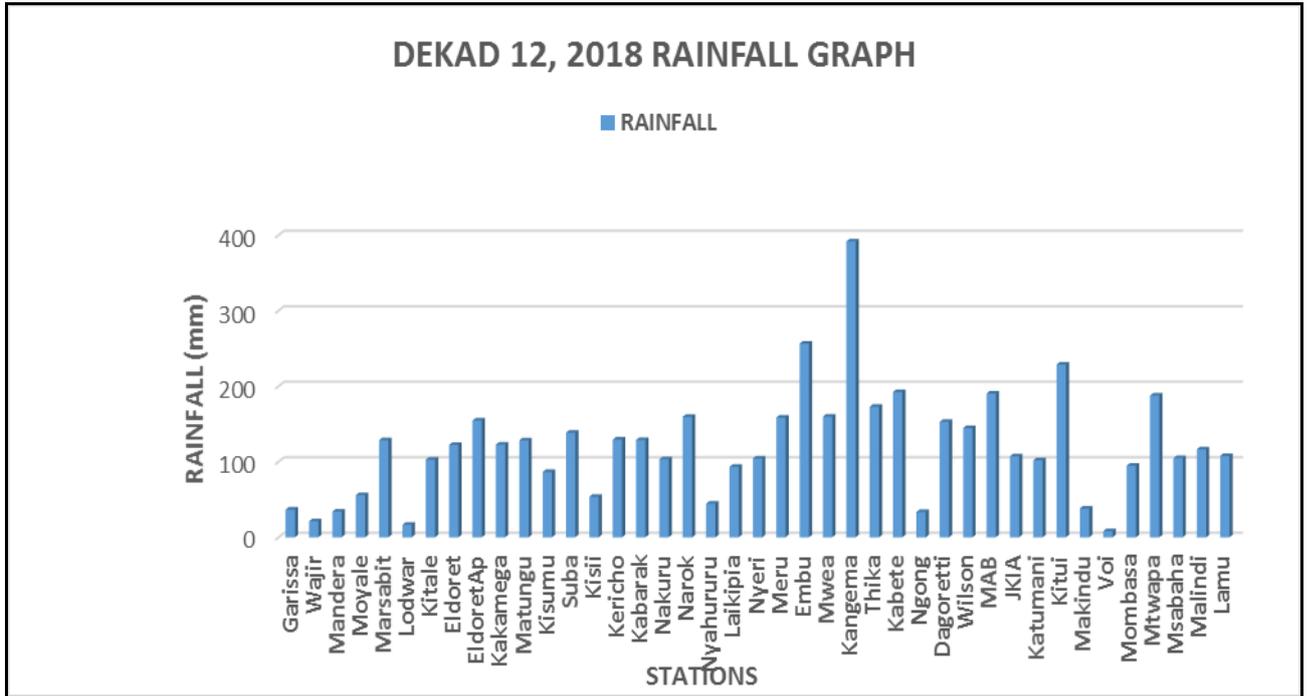


Figure 3.1: Dekadal rainfall totals for dekad 12, 2018

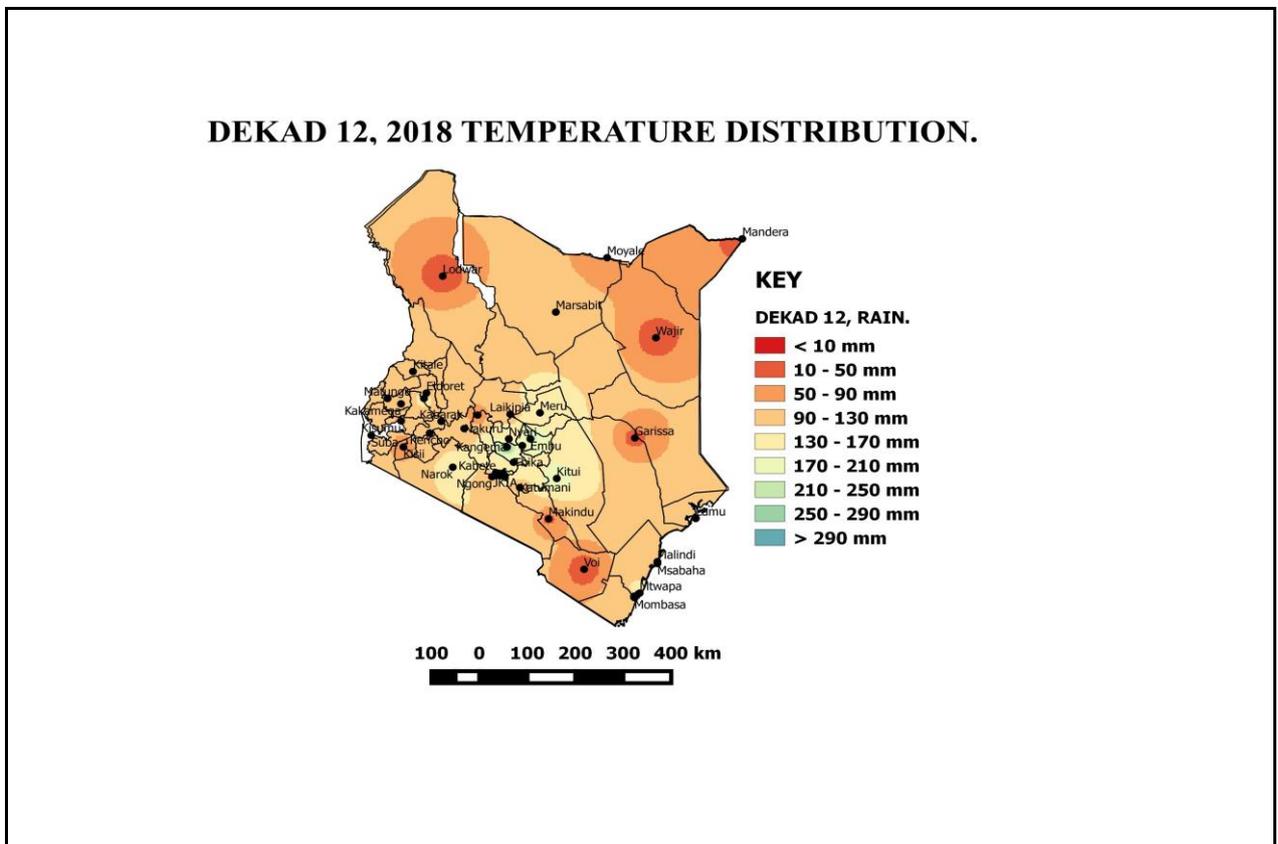


Figure 3.2: Dekadal rainfall distribution for dekad 12, 2018

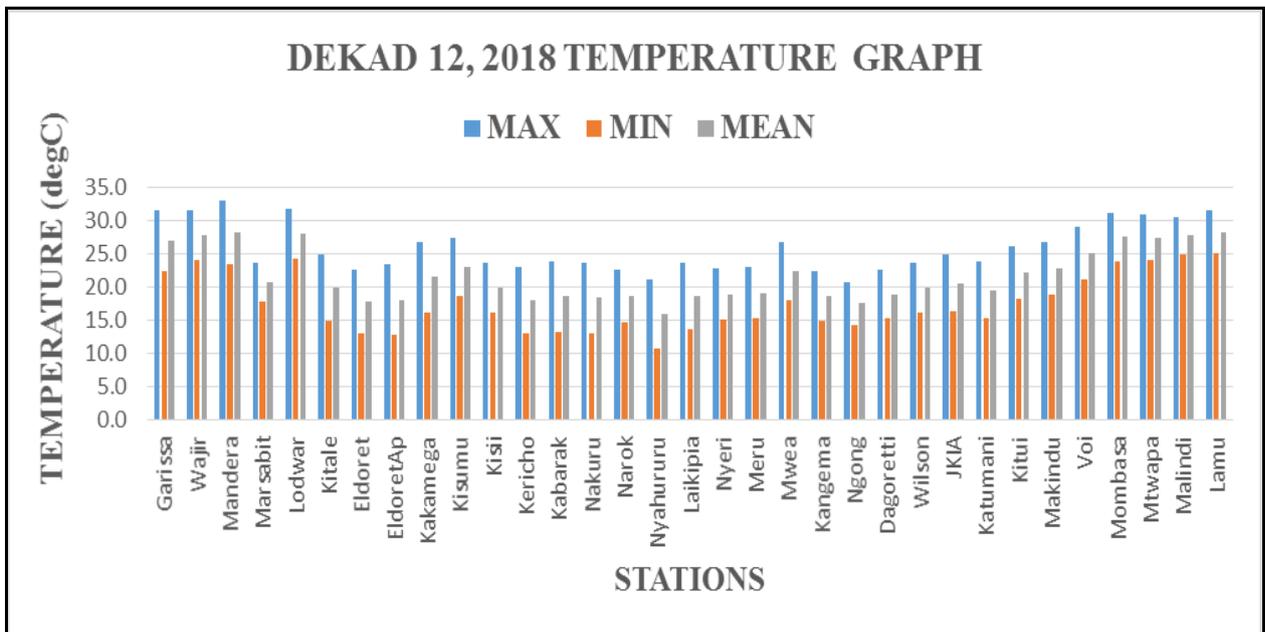


Figure3.3: Maximum, Minimum and Average temperature for dekad 12, 2018

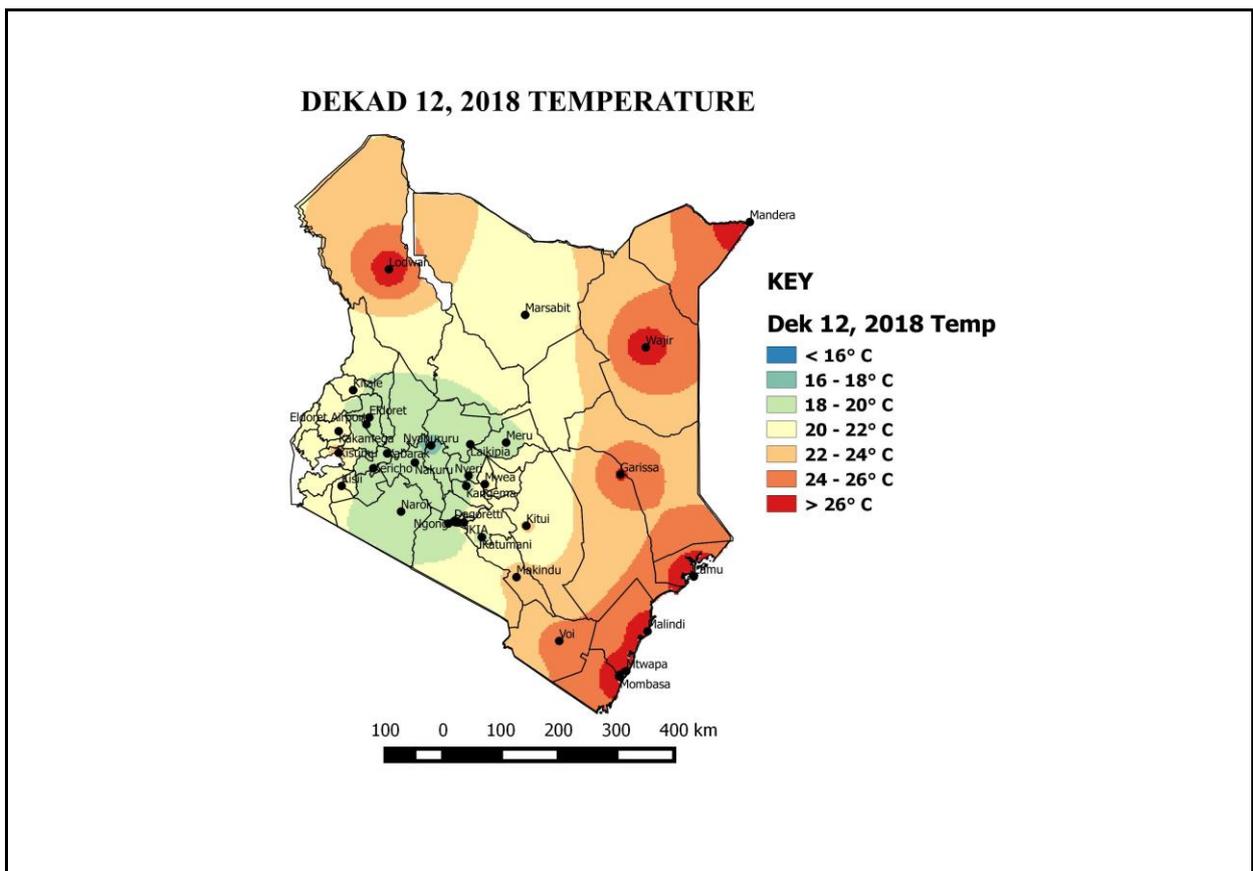


Figure 3.4: Mean temperature distribution for dekad 12, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST – 10TH 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 rains over few places on the first four days of the forecast period, followed by sunny intervals thereafter. Afternoons/Evenings are expected to experience showers and thunderstorms over several places for the first five days of the forecast period reducing to few places thereafter.

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 rains over few places for the first three days of the forecast period breaking into sunny intervals thereafter. Afternoon are expected to experience showers and thunderstorms over few places for the first three days of the forecast period followed by sunny intervals 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 throughout the forecast period.

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

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

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 sunny intervals throughout the forecast period except on the fourth day when we expect rains over few places. Afternoons are expected to experience showers over few places throughout the forecast period except on the sixth day when we expect sunny intervals.

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 throughout the forecast period.

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

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