



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 15, 21ST-31ST MAY, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities continued to decrease in intensity and maintained in spatial distribution countrywide. The highest rainfall was received in coastal region with Malindi and Msabaha station recording 181.7mm and 141.0mm respectively; compared to 266.3mm reported at Kangema station in Central region in the previous dekad. Kisii station in Nyanza region received the highest rainfall amount of 135.6mm. Rift valley region reported the highest rainfall amount of 134.4mm at Kitale station. Kakamega station in Western region recorded the highest rainfall amount of 131.2mm. Central region received the highest rainfall amount of 124.2mm and 112.6mm at Kangema and Nyeri stations respectively. Embu station in Eastern region reported the highest rainfall amount of 106.6 mm. North Eastern region received the highest rainfall amount of 68.2mm at Moyale station; while Dagoretti station in Nairobi region reported the highest rainfall amount of 37.4mm.

Maximum temperatures drastically decreased while minimum temperatures were still on a decreasing trend. The highest temperature of 33.7°C was recorded at Wajir station in North-Eastern region compared to 35.3°C reported at Lodwar station the same region in the previous dekad.

Nyahururu station continued to report the lowest Minimum temperature of 8.8°C compared to 9.9°C reported 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 21ST-31ST MAY, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 131.2mm of rainfall. The Mean air temperature reported was 21.6°C.

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

Maize was in flowering stage and good condition; while beans were at harvest stage and in fair condition. Normal yield is expected for both crops.

2.1.2 Kisii

The station received total rainfall amount of 135.6mm. The Mean air temperature and total Pan Evaporation recorded were 20.1°C and 39.1mm respectively. No report on Sunshine parameter.

Maize was in flowering stage and good condition; while beans were at harvest stage and in fair condition. Normal yield is expected for both crops.

2.2 RIFT VALLEY REGION

2.2.1 Kitale

The station reported 134.4mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 19.6°C and 40.4mm respectively. There was no report on sunshine parameter.

Maize and beans were at emergence and flowering stages respectively; both crops were in good state. The expected yield for beans is normal.

2.2.2 Eldoret - Kapsoya

The station recorded 55.5mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 17.4°C and 39.5 mm 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 112.6 mm of rainfall. The Mean air temperature recorded was 18.1°C. Sunshine duration reported was 5.3hours/day; there was no report on total Pan Evaporation.

Maize and beans were both in flowering stage and fair state; hence normal yield is expected.

2.3.2 Kabete

The station recorded 25.1 mm of rainfall. There was no report on minimum temperature, total Pan Evaporation and sunshine duration.

Maize was in flowering stage and fair state; while beans were at flowering stage and in failure state.

2.3.3 Nyahururu

The station received 48.4 mm of rainfall. The mean air temperature recorded was 14.8°C. There was no report on sunshine and Pan Evaporation parameters.

Maize was at emergence and in fair state while potatoes were in flowering stage and in poor condition due to excessive rain during the dekad.

2.3.4 Dagoretti

The station received 37.4mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 17.7°C and 40.5mm respectively. Sunshine hours reported were 4.3hrs/day.

No Phenological report.

2.3.5 Thika

The station recorded 28.2mm of rainfall. The total Pan Evaporation reported was 35.7mm. There was no report on Mean air temperature and sunshine duration.

Both Maize and beans were still at flowering stage and in fair state; potatoes were still at flowering stage and in fair state. The expected yield of beans is below normal due to too much rainfall during the decade.

2.4 EASTERN REGION

2.4.1 Embu

The station received 106.6 mm of rainfall. Total Pan Evaporation recorded was 35.3mm while sunshine duration was 5.9 hours/day. There was no report on Mean Air Temperature.

Maize and beans were both still at flowering stage and in fair state; expected yield is normal.

2.4.2 Meru

The station received 106.0mm of rainfall. The mean air Temperature was 18.1°C. Total Pan Evaporation recorded were 35.7. There was no report on sunshine duration.

Maize and beans were both still at flowering stage and fair state; although some maize have been affected by army worms and some beans have been affected by too much rainfall during the dekad.

2.4.3 Katumani (Machakos)

The station received 9.6mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 18.3°C and 38.6 mm respectively. Sunshine hours reported was 6.9 hours/day.

Maize was in flowering stage and good state hence normal yield is expected; while beans were at maturity state and poor condition due to too much rainfall hence expected yield is below normal.

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 141.0mm of rainfall. Total Pan Evaporation recorded was 60.0mm. There was no report on mean air Temperature and Sunshine duration parameters.

Maize was at flowering stage and fair state hence the expected yield is normal.

2.5.2 Mtwapa

The station received 83.96 mm of rainfall. The mean air temperature recorded and total Pan Evaporation reported were 26.5°C and 38.6mm respectively. There was no report on Sunshine parameter.

Maize was at flowering stage and in good state, though it was affected by Army worms and diseases mainly by maize stalk borer. Mangos were at flowering and at fair state.

2.5.3 Lamu

The station recorded 106.0mm of rainfall. The Mean air temperature recorded was 27.63°C. The Sunshine duration reported was 7.0hours/day; there was no report on total Pan Evaporation.

Maize was still at emergence stage and in fair state.

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

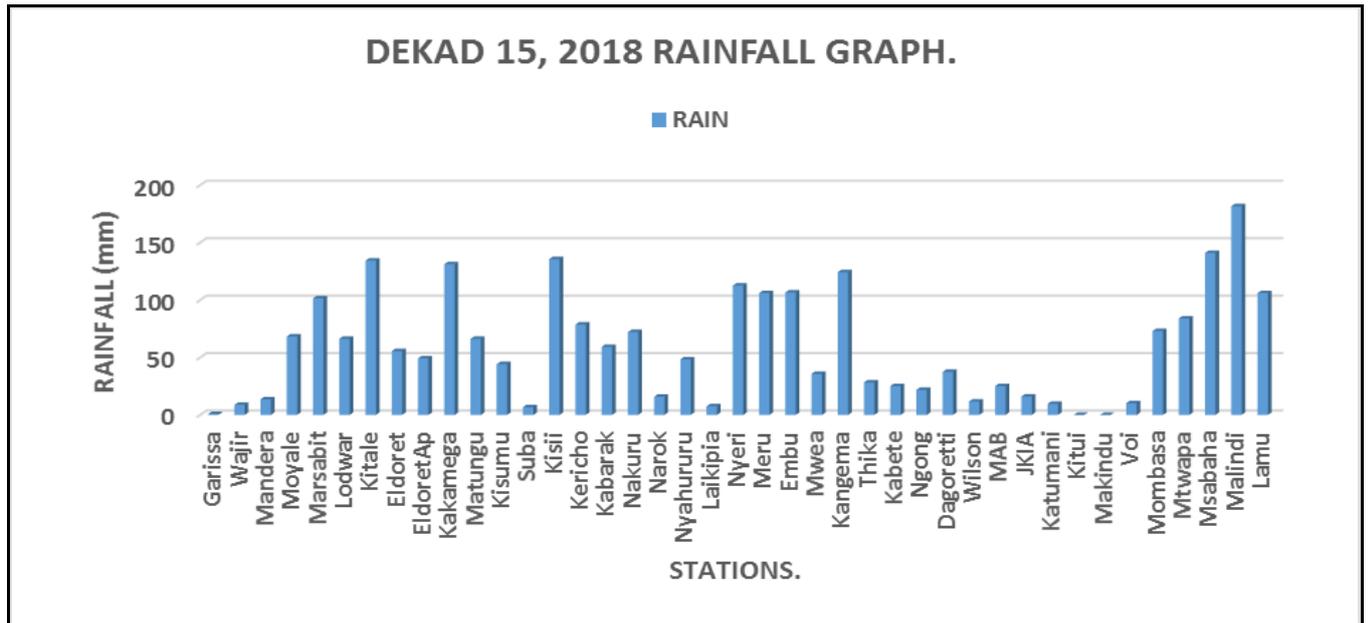


Figure 3.1: Dekadal rainfall totals for dekad 15, 2018

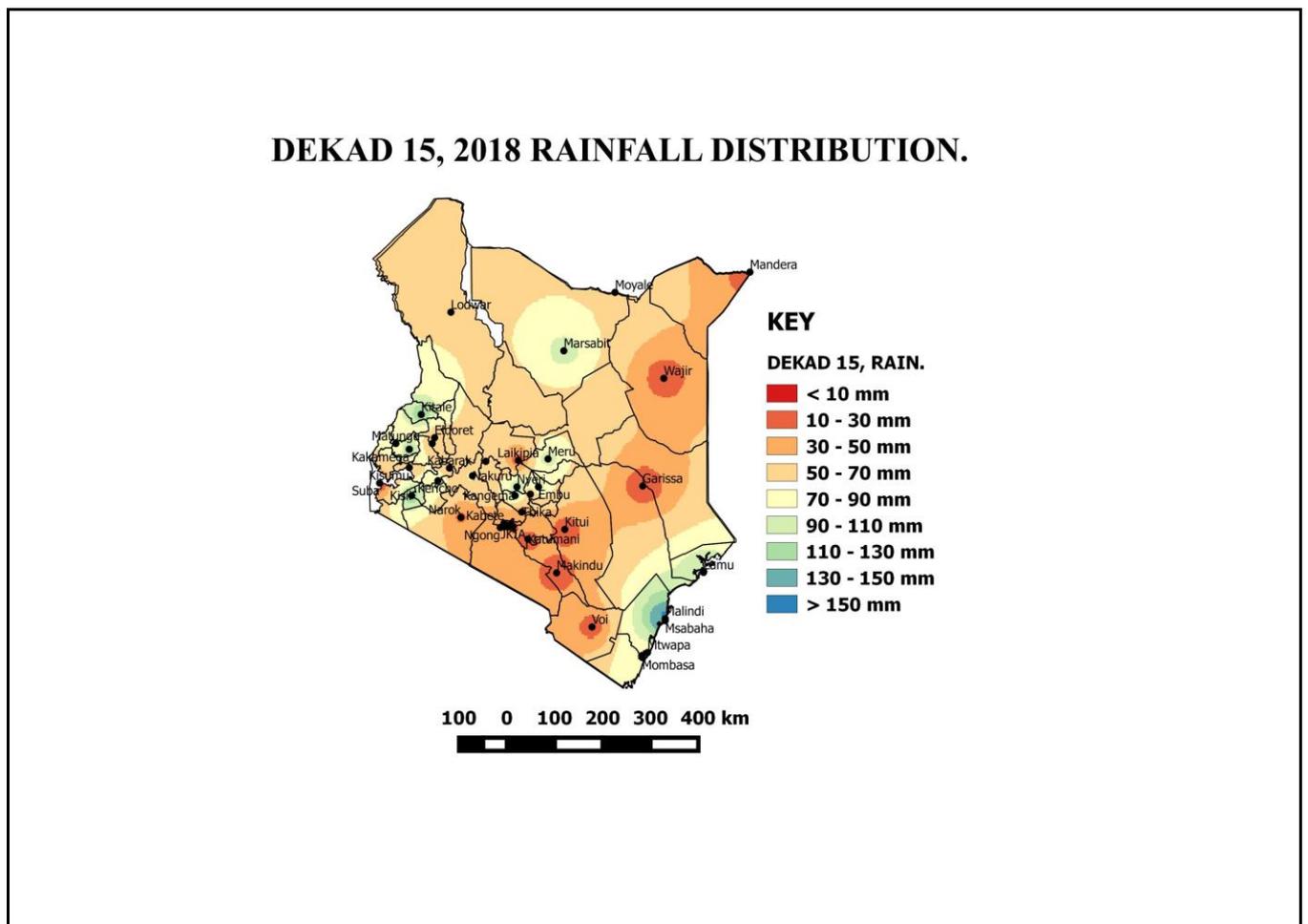


Figure 3.2: Dekadal rainfall distribution for dekad 15, 2018

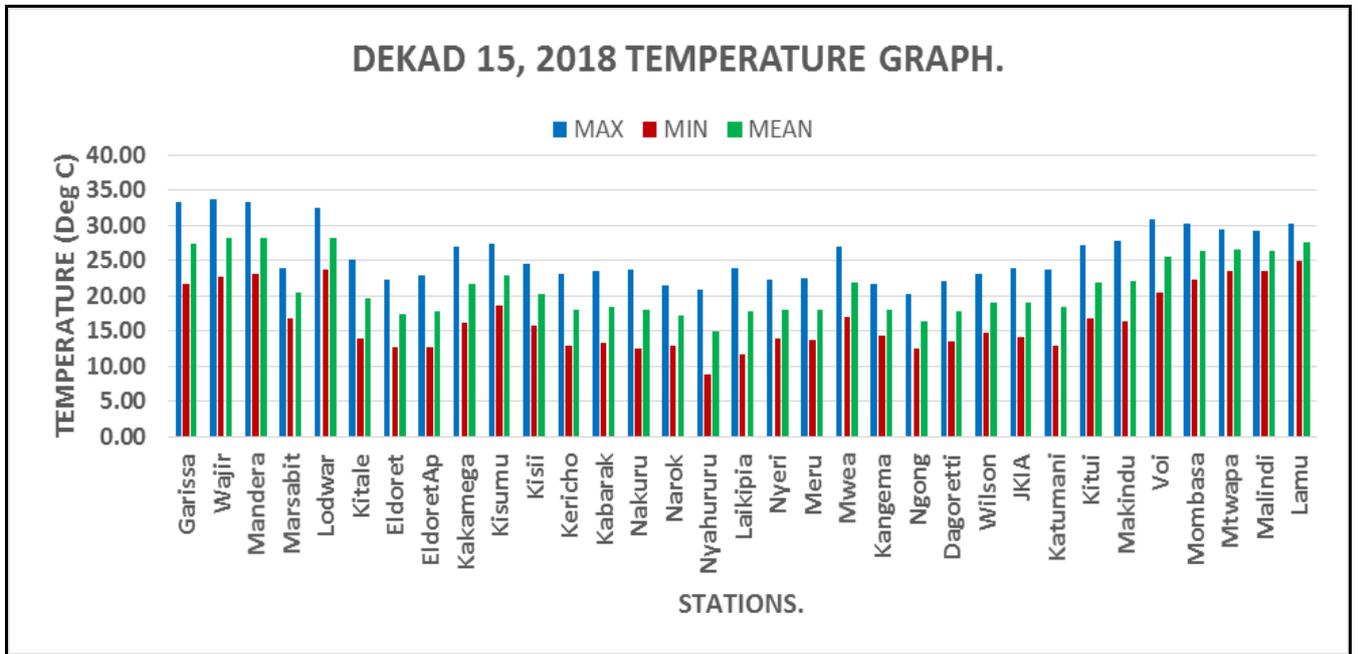


Figure 3.3: Maximum, Minimum and Average temperature for dekad 15, 2018

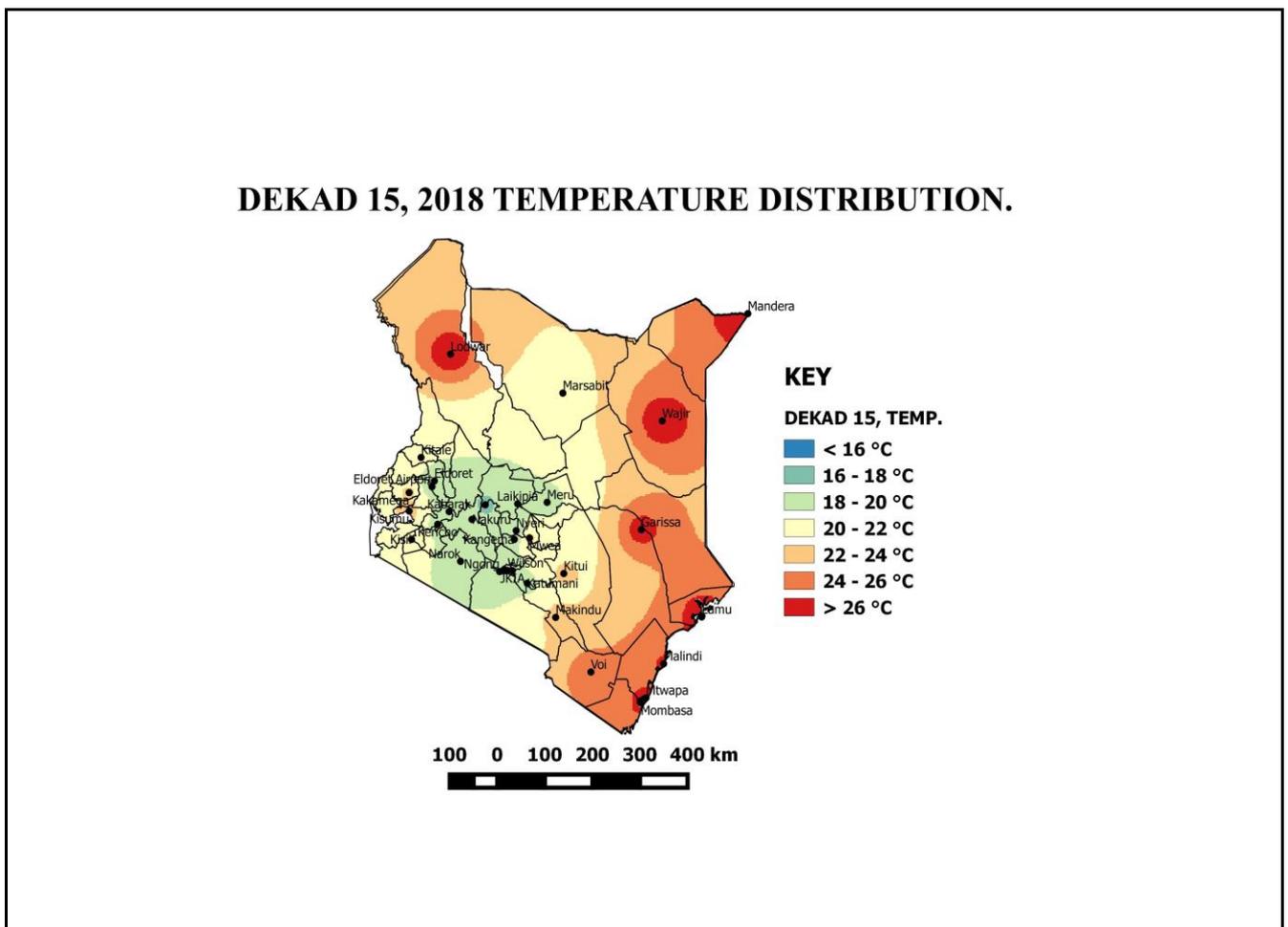


Figure 3.4: Mean temperature distribution for dekad 15, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1ST – 10TH JUNE 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.

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

The showers and rains will continue to have a positive impact to the crops that are in emergence, flowering and in maturity 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 seven days of the forecast period, followed by sunny intervals thereafter. Afternoons are expected to experience mainly showers and thunderstorms over few places during the forecast period.

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 mainly cloudy mornings with a possibility of rains over few places giving way to sunny intervals throughout the forecast period. Afternoons are expected to experience mainly showers over few places throughout the forecast period.

The rains and showers will be beneficial to 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 throughout the forecast period, followed by sunny intervals thereafter. Afternoons are expected to experience mainly sunny intervals except on the 5th and 7th days of the forecast period.

The showers and rains will continue to replenish 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 the entire day throughout the forecast period. Afternoons are likely to experience showers over few places for the first two days of the forecast period, followed by sunny intervals thereafter.

The rains and showers will continue to replenish the vegetation and pasture for the animals kept in this regions and benefit the crops that are in flowering and maturity stages in places like Katumani.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience mainly showers over several places for the first two days of the forecast period, followed by sunny intervals thereafter.

The showers will benefit the maize and mangoes that are in flowering stage in places like Mtwapa and Msabaha.

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