



KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 14, 11TH-20TH MAY, 2018

HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities continued to decrease both in intensity and in spatial distribution countrywide. The highest rainfall of 266.3mm was received at Kangema station in Central region compared to 360.0mm reported at Lamu station in Coastal region in the previous dekad. The second highest rainfall of 225.5mm was recorded in Nairobi region at Ngong' station. Eastern region reported the highest rainfall amount of 198.5 mm at Mwea station. Malindi station in Coastal region recorded the highest rainfall amount of 164.5 mm. Rift-Valley region received the highest rainfall amount of 157.7 mm at Kericho station. Matungu station in Western region reported the highest rainfall amount of 152.7 mm. Nyanza region received the highest rainfall amount of 146.7 mm at Kisii station; while Wajir station in North-Eastern region reported the highest rainfall amount of 27.0 mm.

Maximum and Minimum temperatures were still on an increasing and decreasing trends respectively. The highest temperature of 35.3°C was recorded at Lodwar station in North-Eastern region compared to 34.5°C reported in the same Station in the previous dekad. Nyahururu station continued to report the lowest Minimum temperature of 9.9 °C, just as 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 MAY, 2018

2.1 NYANZA AND WESTERN REGIONS

2.1.1 Kakamega

The station recorded 137.9mm of rainfall. The Mean air temperature reported was 21.5°C.

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

Maize and beans were at flowering and maturity stages respectively; maize crops were in good state while beans were in fair state since they have been affected by excess rainfall.

2.1.2 Kisii

The station received total rainfall amount of 146.7mm. The Mean air temperature and total Pan Evaporation recorded were 20.4°C and 31.7mm respectively. 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 reported 69.9 mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 20°C and 38.9 mm respectively. Sunshine duration reported was 6.1hours /day.

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

2.2.2 Eldoret - Kapsoya

The station recorded 88.4 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 17.9°C and 43.8 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 50.7 mm of rainfall. The Mean air temperature recorded was 18.9°C. Sunshine duration reported was 6.4hours/day; 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 130.3 mm of rainfall. The total Pan Evaporation reported was 35.2 mm; there was no report on mean air temperature and sunshine duration.

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

2.3.3 Nyahururu

The station received 32.6 mm of rainfall. The mean air temperature recorded was 16.1°C. There was no report on sunshine and Pan Evaporation parameters.

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

2.3.4 Dagoretti

The station received 144.8mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 18.7°C and 29.5mm respectively. There was no report on Sunshine parameter.

No Phenological report.

2.3.5 Thika

The station recorded 77.1mm of rainfall. The total Pan Evaporation reported was 36.9mm and there was no report on Mean air temperature.

Both Maize and beans were at flowering stages and in fair state; potatoes were 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 124.9 mm of rainfall. Total Pan Evaporation recorded was 33.1mm while sunshine duration was 6.3 hours/day. There was no report on Mean Air Temperature.

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

2.4.2 Meru

The station received 53.1mm of rainfall. The mean air Temperature was 18.8°C. Total Pan Evaporation recorded were 35.0. There was no report on sunshine duration.

Both Maize and beans were at flowering stage and in good and fair states respectively.

2.4.3 Katumani (Machakos)

The station received 20.1mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 19.3°C and 30.6 mm respectively. There was no report on Sunshine duration.

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

2.5 COASTAL REGION

2.5.1 Msabaha

The station received 100.3mm of rainfall. Total Pan Evaporation recorded was 36.3mm. There was no report on mean air Temperature and Sunshine duration parameters.

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

2.5.2 Mtwapa

The station received 137.2 mm of rainfall. The mean air temperature recorded and total Pan Evaporation reported were 26.8°C and 89.0mm respectively. There was no report on Sunshine parameter.

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

2.5.3 Lamu

The station recorded 29.6 mm of rainfall. The Mean air temperature recorded was 28.2°C. The Sunshine duration reported was 8.0hours/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

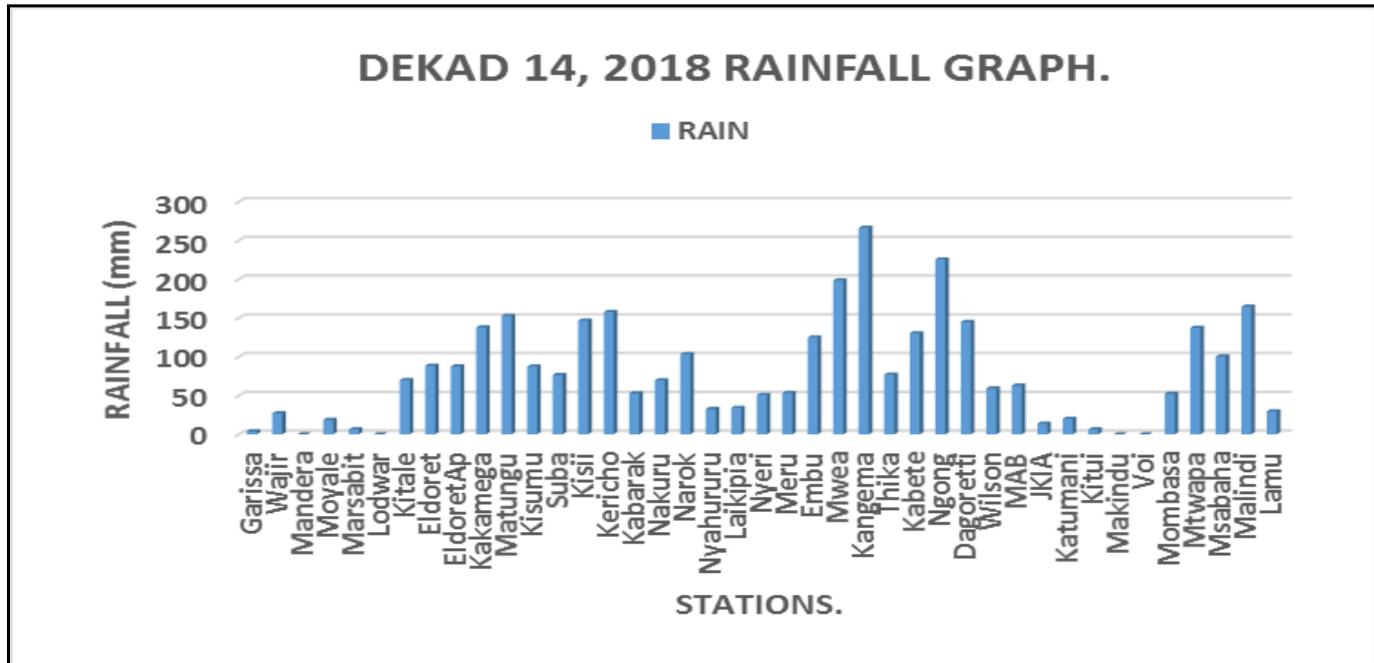


Figure 3.1: Dekadal rainfall totals for dekad 14, 2018

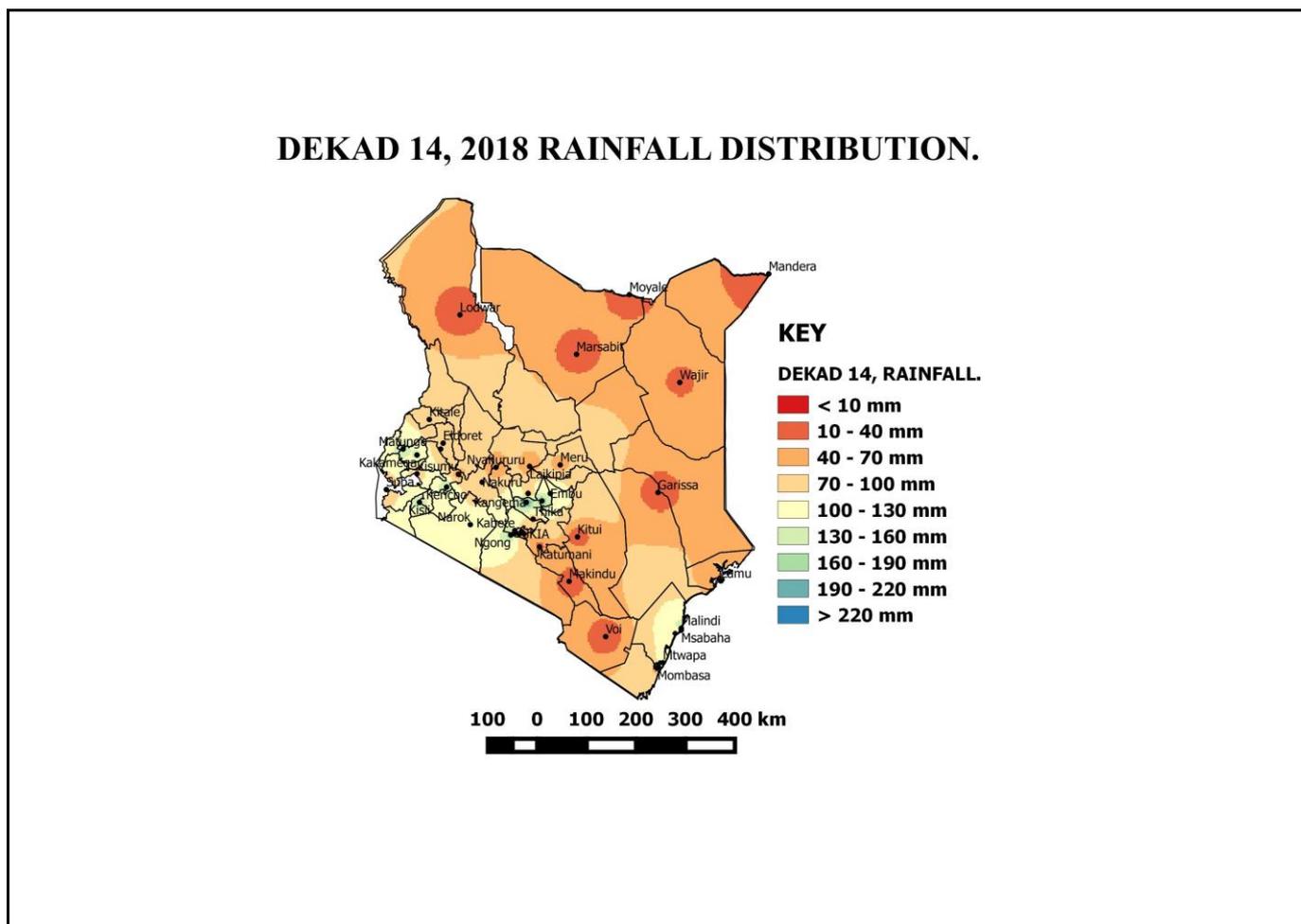


Figure 3.2: Dekadal rainfall distribution for dekad 14, 2018

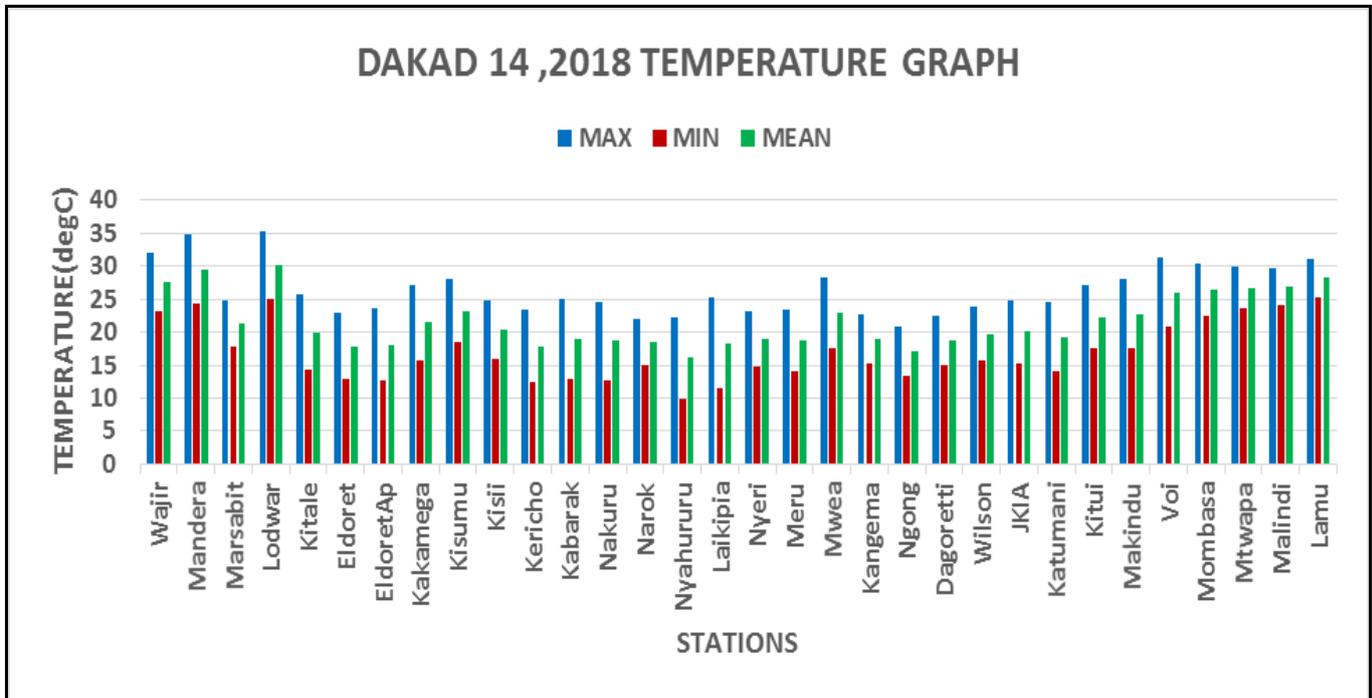


Figure3.3: Maximum, Minimum and Average temperature for dekad 14, 2018

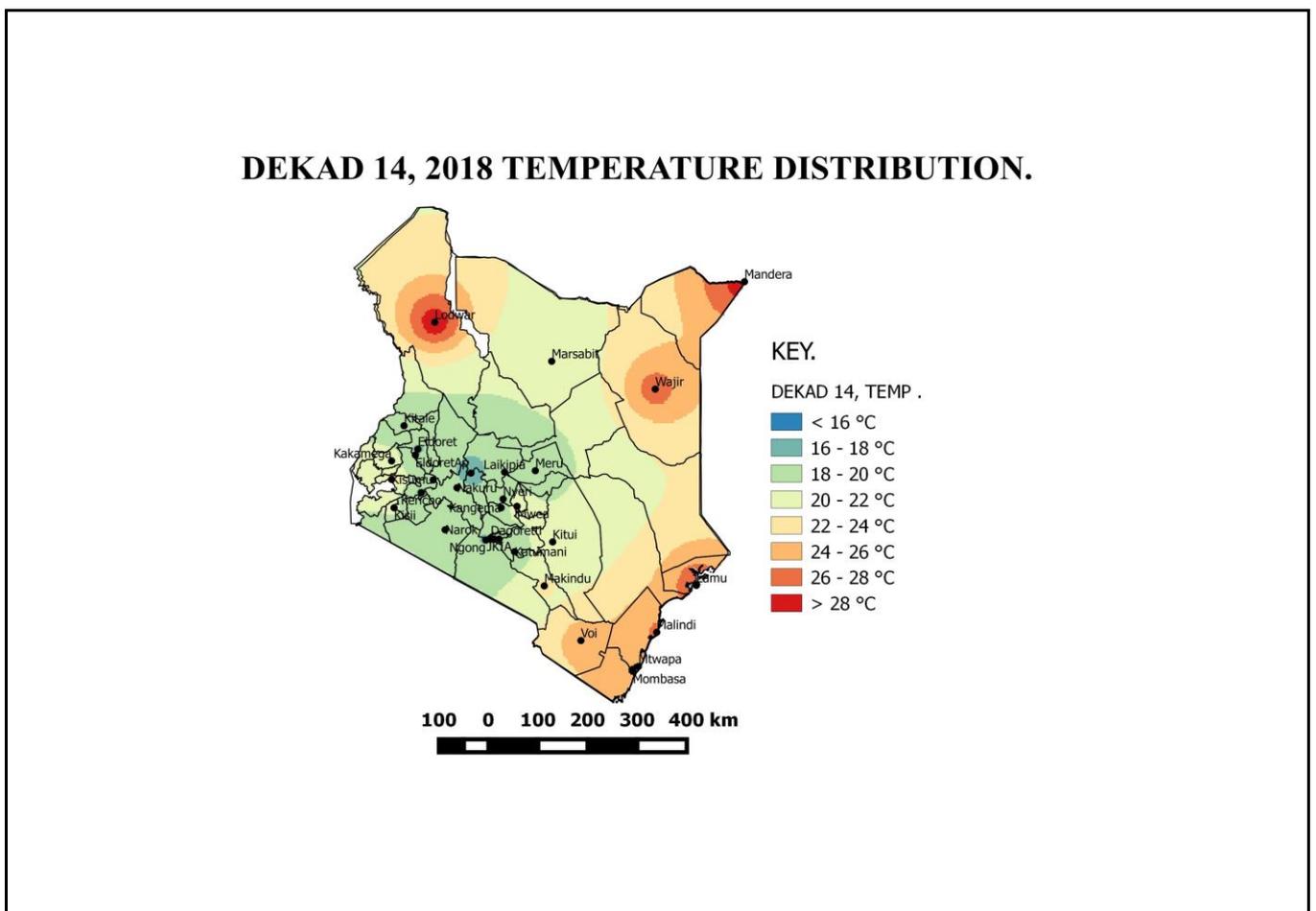


Figure 3.4: Mean temperature distribution for dekad 14, 2018

EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST – 31ST 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 for the first three days of the forecast period, followed by sunny intervals thereafter. 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 rains over few places for the first three days of the forecast period, followed by sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over few places for the first five 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 mainly 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, Nyahururu and Meru.

Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo), Mornings are expected to experience rains over few places for the first three days of the forecast period, followed by sunny intervals thereafter. Afternoons are expected to experience showers over few places for the first two days of the forecast period, followed by sunny intervals thereafter.

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. Afternoons are expected to experience showers over few places for the first three 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 and benefit the crops that are in flowering stage in this region.

Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.) are expected to experience mainly showers over few places the entire day throughout the forecast period.

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

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