



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 18, 21<sup>ST</sup> -30<sup>TH</sup> JUNE, 2017

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities decreased in intensity while the spatial distribution increased. Matungu station in Western region received the highest rainfall amount of 51.3mm compared to 138.7mm reported at Lamu station in Coastal region in the previous dekad. Kisii station in Nyanza region recorded the highest rainfall amount of 41.1mm. Coastal region received the highest rainfall amount of 35.2mm at Lamu station. Dagoretti station in Nairobi region reported the highest rainfall amount of 35.2mm. Rift Valley region reported the highest rainfall amount of 31.6mm at Eldoret Airport station. Nyahururu station in Central region reported the highest rainfall amount of 17.3mm. Eastern region received the highest rainfall amount of 3.6mm at Embu station. Garissa station in North Eastern region reported the highest rainfall amount of 2.8mm.

Maximum temperatures decreased, while minimum temperatures were still on a decreasing trend. Lodwar station in the North Eastern region continued to record the highest maximum temperatures of 35.3°C compared to 35.4°C reported at the same station in the previous dekad. Nyahururu station in Central region continued to record the lowest minimum temperatures of 6.5°C.

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 18, 21<sup>ST</sup>- 30<sup>TH</sup> JUNE, 2017

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

Total rainfall amount recorded was 32.5mm. The mean air temperature and total pan evaporation reported were 21.7°C and 40.5mm respectively. Sunshine duration reported was 8.9hrs/day.

*Maize was in maturity stage and in good condition; hence normal yield is expected.*

#### 2.1.2 Kisii

The station recorded total rainfall amount of 41.1mm. The mean air temperature and total Pan Evaporation reported were 20.4°C and 34.1mm respectively. Sunshine duration reported was 7.3hrs/day.

*Maize is at harvesting stage and in good state; hence normal yield is expected.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station recorded total rainfall amount of 29.4mm. The mean air temperature and total Pan Evaporation reported were 19.4°C and 32.9mm respectively. Sunshine duration was 7.3 hrs/day.

*Maize and beans are at flowering and maturity stages respectively. Both crops are in good conditions hence normal yield is expected.*

### **2.2.2 Eldoret - Kapsoya**

The station reported total rainfall amount of 28.3mm. The mean air temperature and total Pan Evaporation recorded were 17.1°C and 45.3mm respectively. Sunshine duration was 9.0 Hrs/day.

*Maize crop is at flowering stage and in good state while beans are at maturity stage and in good state. Crops are doing well due to sufficient rainfall.*

## **2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION**

### **2.3.1 Nyeri**

The station reported 0.6mm of rain. The mean air temperature recorded was 18.0°C. There was no report on total Pan Evaporation and sunshine duration.

*Maize and beans were still at emergence and flowering stages respectively. The crops are in poor state due to adverse effects (prolonged drought). Hence below normal yields is expected.*

### **2.3.2 Kabete**

The station reported 0.6mm of rainfall. Total Pan Evaporation was 24.5mm. Sunshine duration recorded was 4.5hrs/day. There was no report on mean air temperature.

*Maize and beans are still at flowering stage and in fair condition; the crops are doing well.*

### **2.3.3 Nyahururu**

The station recorded 17.3mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 15.0°C and 39.3mm respectively. Sunshine duration recorded was 8.2 hours per day.

*Maize and beans are still at emergence stage and in poor condition, due to insufficient rain. Potatoes too are at emergence and in poor state.*

### **2.3.4 Dagoretti**

The station reported 35.2mm of rainfall. The mean air temperature reported was 17.5°C. Sunshine duration was 3.1 hours. No report on total pan evaporation.

*No Phenological report.*

### **2.3.5 Thika**

The station reported dry conditions. The total pan evaporation recorded was 28.0mm. Sunshine duration was 3.5hrs/day. No report on mean air temperature.

*Maize and beans were at flowering and maturity stages respectively. Both crops are in fair conditions, hence normal yield expected. Potatoes were also at flowering stage and in fair state.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station recorded 3.6mm of rainfall. Total Pan Evaporation recorded was 28.6mm. Sunshine duration reported was 4.4 hrs/day. No report on mean air temperature.

*Maize and beans were at flowering and maturity stages respectively and in fair condition. Some farmers have started harvesting beans. Normal yield is expected for both crops.*

### **2.4.2 Meru**

The station reported dry conditions. Mean Air Temperature and total Pan Evaporation recorded were 18.3°C and 38.0mm respectively. The Sunshine duration reported was 7.5 hours per day.

*Maize was at flowering stage and in poor condition due to insufficient rain. Beans were at maturity stage and in fair state.*

### **2.4.3 Katumani (Machakos)**

The station reported dry conditions. The mean air temperature and total Pan Evaporation recorded were 17.6°C and 30.5mm respectively. The mean sunshine duration recorded was 4.1 hours.

*Maize and beans were maturity and harvest stages respectively. Both crops are in good condition hence normal yield is expected.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

Total amount of rainfall received was 25.5mm. The total Pan Evaporation reported was 36.5 mm. Sunshine duration recorded on average was 7.9hrs/day. No report on mean air temperature.

*Maize was at flowering stage and in fair state due to sufficient rains received during the dekad; hence normal yield is expected.*

### **2.5.2 Mtwapa**

The station received total rainfall amount of 13.9mm. The Mean air temperature and total pan evaporation reported were 25.9°C and 39.9mm respectively. The mean sunshine duration recorded was 7.1 hrs/day.

*Maize was at flowering stage and in good state hence normal yield is expected. Mangoes were at flowering stage and in poor condition.*

### 2.5.3 Lamu

The station recorded total rainfall amount of 35.2mm. The mean air temperature was 27.2°C; there was no report on total pan evaporation and sunshine parameters.

*Maize was at flowering stage and in fair state. The crop is doing well due to sufficient rains experienced during the dekad.*

## ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

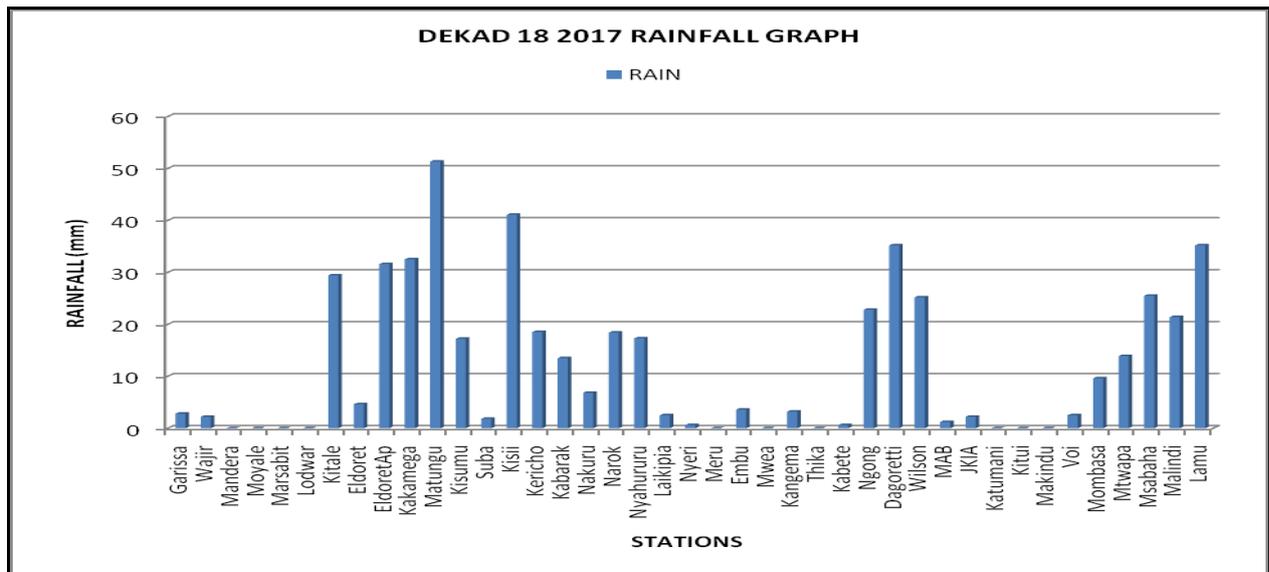


Figure 3.1: Dekadal rainfall totals for dekad 18, 2017

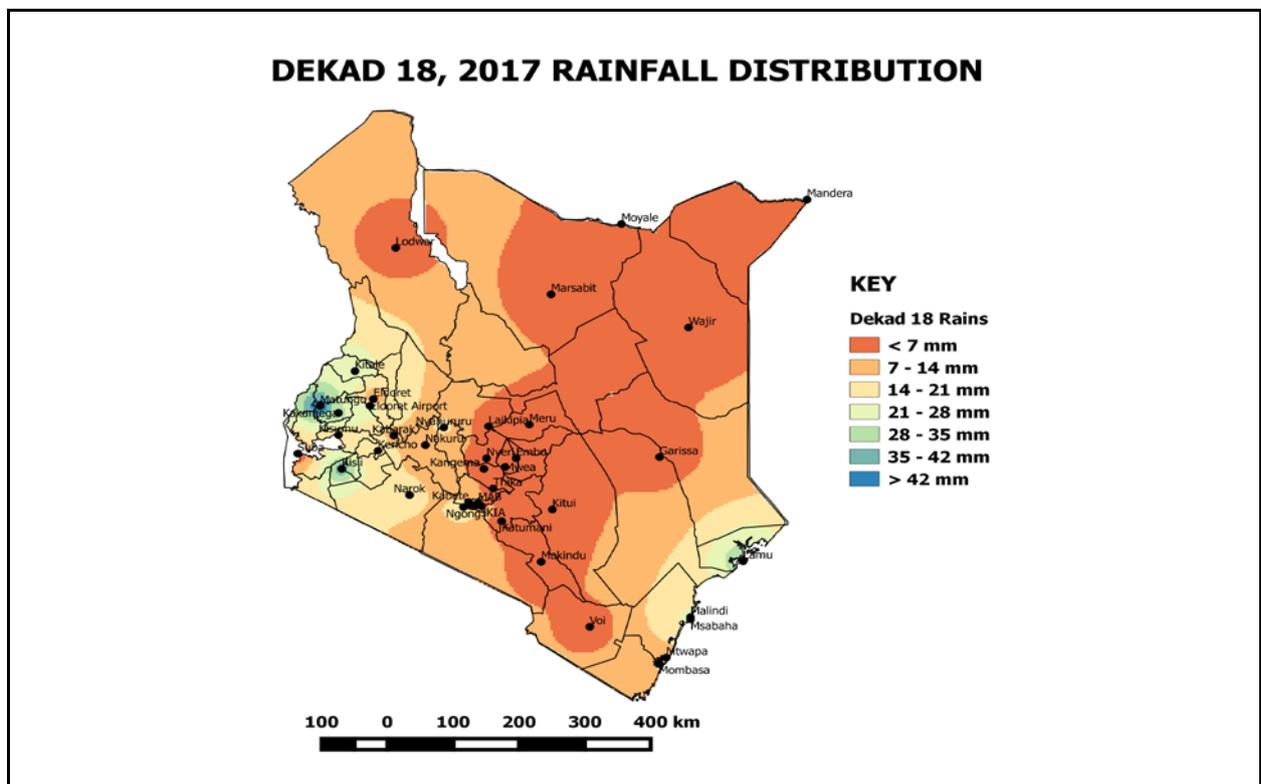


Figure 3.2: Dekadal rainfall distribution for dekad 18, 2017

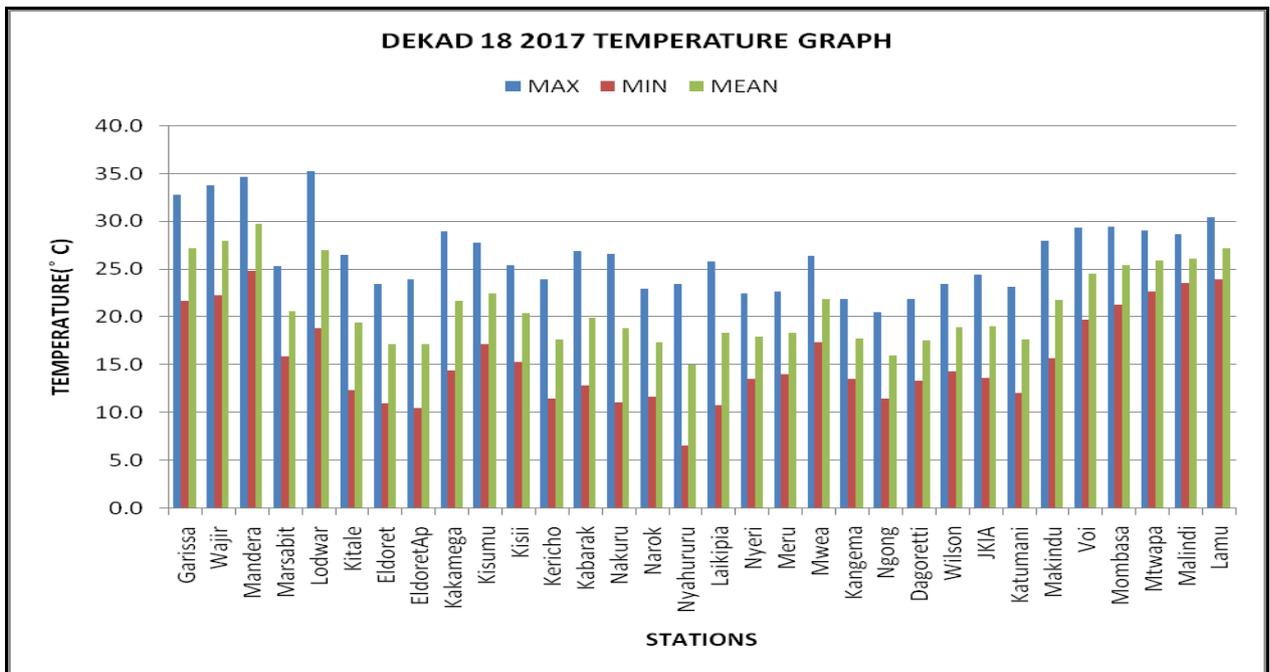


Figure 3.3: Maximum, Minimum and Average temperature for dekad 18, 2017

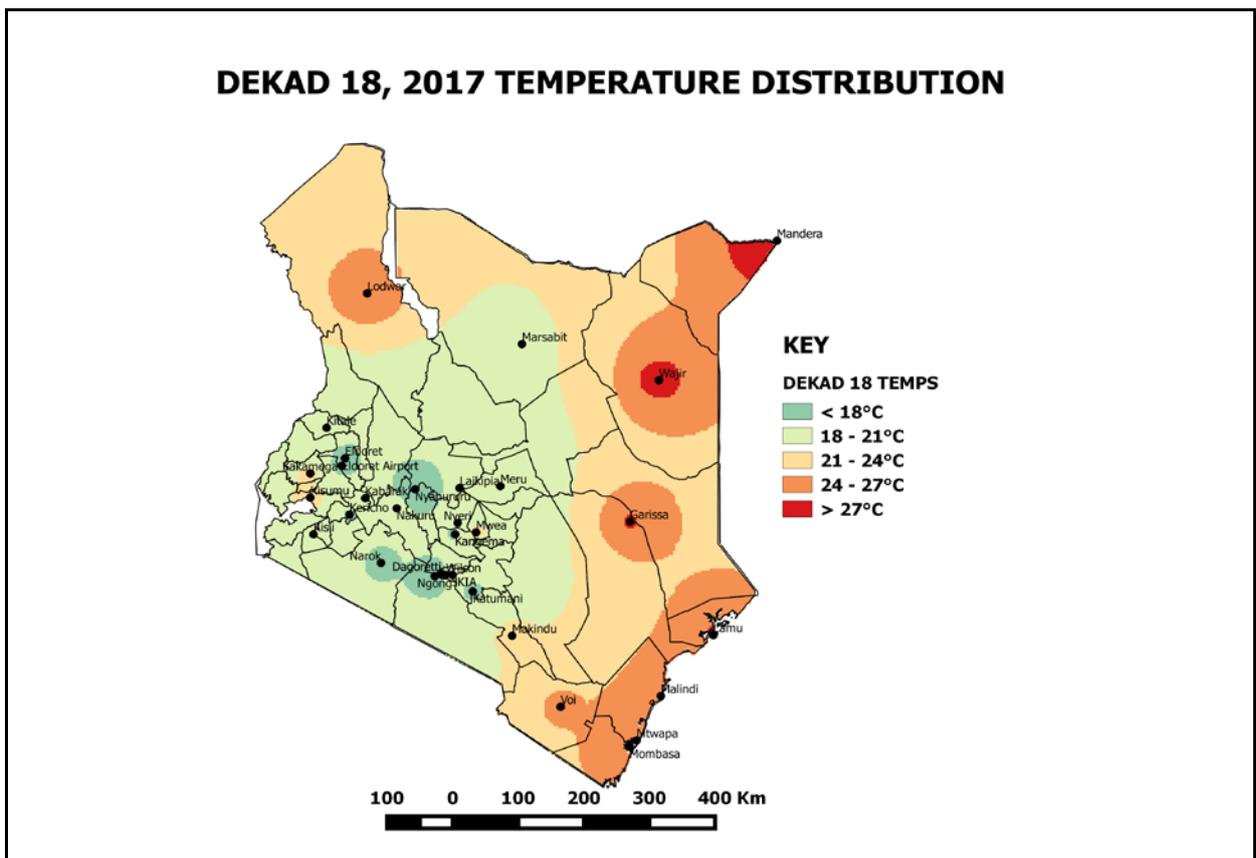


Figure 3.4: Mean temperature distribution for dekad 18, 2017

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1<sup>ST</sup> to 10<sup>TH</sup> JULY 2017.**

**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 likelihood of rains over few places at the beginning of the forecast period. Afternoons are expected to experience showers and thunderstorms over several places at the beginning of the forecast period reducing to few places towards the end of the forecast period.

*The showers will continue to benefit the crops like maize and Beans that are in maturity stages in places like Kitale and Kakamega.*

**The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience morning rains at the beginning of the forecast period breaking into sunny intervals thereafter. There is a likelihood of afternoon showers and thunderstorms over few places at the beginning of the forecast period breaking into sunny intervals towards the end of the forecast period.

*The showers will have a positive impact on the vegetation and 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 giving way to sunny intervals. Afternoons are expected to experience showers over few places at the beginning of the forecast period.

*The showers will continue benefiting the crops that are in emergence, flowering and maturity stages in places like Nyahururu Meru, Nyeri, Embu and Thika.*

**Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience sunny intervals the entire day throughout the forecast period.

*The sunny intervals will have a negative effect on the vegetation and pasture in these regions.*

**Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)** are expected to experience mainly sunny intervals the entire day throughout the forecast period.

*The sunny conditions will have a negative impact on the vegetation and pasture for the animals kept in this region.*

**In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)** are expected to experience mainly sunny intervals the entire day throughout the forecast period.

*The sunny intervals will have a negative effect on the flowering maize and fruits in places like Lamu, Msabaha and Mtwapa.*

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