



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 25, 1<sup>ST</sup> -10<sup>TH</sup> SEPTEMBER, 2017

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased both in intensity and spatial distribution. The highest rainfall of 128.4mm and 108.6mm was recorded at Kericho and Kabarak stations respectively in Rift Valley region, compared to 121.6mm reported at Eldoret Airport station in the same region in the previous dekad. Western region received the highest rainfall amount of 103.6mm at Matungu station. Nyahururu station in central region recorded the highest rainfall amount of 100.3mm. Kisii station in Nyanza region received the highest rainfall amount of 92.4mm. Eastern region received the highest rainfall amount of 9.3mm at Mwea station. Lodwar station in the North-Eastern region reported the highest rainfall amount of 8.4mm. Nairobi region recorded the highest rainfall amount of 7.9mm at Dagoretti Corner station; while Msabaha station in the Coastal region recorded the highest rainfall amount of 6.7mm

Maximum and Minimum temperatures were on a decreasing and increasing trend respectively. Manderla station in the North Eastern region reported the highest Maximum temperature of 34.3°C compared to 35.2°C reported at the same station and Lodwar station in the previous dekad. Nyahururu station in Central region continued to record the lowest Minimum temperatures of 8.8°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 25, 1<sup>ST</sup>- 10<sup>TH</sup> SEPTEMBER, 2017

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

Total rainfall amount recorded was 69.7mm. The Mean air temperature reported was 20.8°C. There was no report on total Pan Evaporation and sunshine duration.

*Both Beans and Maize crops were still in emergence stage and in good and fair states respectively.*

#### 2.1.2 Kisii

The station received total rainfall amount of 92.4mm. The Mean air temperature and total Pan Evaporation recorded were 20.0°C and 33.9mm respectively. There was no report on sunshine duration.

*Both Maize and Beans were still at emergence and in fair state.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station recorded total rainfall amount of 44.1mm. The Mean air temperature and total Pan Evaporation recorded were 18.9°C and 26.1mm respectively. Sunshine duration was 4.3 hrs/day.

*Maize crop is at maturity stage and in good state hence normal yield is expected.*

### **2.2.2 Eldoret - Kapsoya**

The station received total rainfall amount of 65.0mm. The Mean air temperature and total Pan Evaporation recorded were 16.8°C and 32.5mm respectively. There was no report on Sunshine duration.

*Maize was at maturity stage and in fair state hence normal yield is expected.*

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

### **2.3.1 Nyeri**

The station reported 2.7mm of rainfall. The Mean air temperature recorded was 16.5 °C. There was no report on total Pan Evaporation and sunshine duration.

*Maize was at flowering stage and in poor state due to insufficient rain, insects and stalk borer. Hence below normal yield is expected.*

### **2.3.2 Kabete**

The station received 4.2mm of rainfall. Total Pan Evaporation and Sunshine duration recorded were 28.7mm and 4.1hrs/day respectively. There was no report on Mean air temperature.

*Maize harvesting is almost over in most farms and beans have been harvested.*

### **2.3.3 Nyahururu**

The station recorded 100.3mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 14.8°C and 35.3mm respectively. There was no report on Sunshine duration.

*Maize was at flowering stage and in fair state, hence normal yield is expected. Potatoes were in maturity stage and in fair condition.*

### **2.3.4 Dagoretti**

The station received 7.9mm of rainfall. The Mean air temperature and total pan evaporation reported were 17.5°C and 32.7mm respectively. Sunshine duration reported was 3.7hrs/day.

*No Phenological report.*

### **2.3.5 Thika**

The station reported 4.4mm of rainfall. Total pan evaporation and Sunshine duration recorded were 25.9mm and 2.4hrs/day respectively. There was no report on Mean air temperature.

*Land preparation is on-going.*

## **2.4 EASTERN REGION**

### **2.4.1 Embu**

The station reported 4.7mm of rainfall. Total Pan Evaporation and Sunshine duration recorded were 23.7mm and 1.6hrs/day respectively. There was no report on Mean air temperature.

*Maize harvesting is underway, while beans have been harvested.*

### **2.4.2 Meru**

The station recorded 2.1mm of rainfall. Mean Air Temperature and total Pan Evaporation recorded were 18.2°C and 34.6mm respectively. Sunshine duration reported was 6.0 hours per day.

*Land preparation for next season is underway.*

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

The station reported dry conditions. The Mean air temperature and total Pan Evaporation recorded were 18.2°C and 39.0mm respectively. There was no report on Sunshine duration.

*Harvesting of crops is complete and land preparation is underway.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

Total amount of rainfall received was 6.7mm. Total Pan Evaporation recorded was 42.7mm. Sunshine duration reported was 8.7hrs/day. There was no report on Mean air temperature.

*Maize harvesting is over.*

### **2.5.2 Mtwapa**

The station reported total rainfall amount of 5.3mm. The Mean air temperature and total Pan Evaporation recorded were 25.7°C and 50.8mm respectively. Sunshine duration recorded was 9.1hrs/day.

*Maize was at harvest stage and in poor state hence below normal yield is expected. Mangoes were at harvesting stage too and in fair state.*

### **2.5.3 Lamu**

The station received total rainfall amount of 2.5mm. The Mean air temperature recorded was 27.9°C. There was no report on total pan evaporation and Sunshine parameters.

Maize harvesting is almost over in most farms and normal yield is expected.

## ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

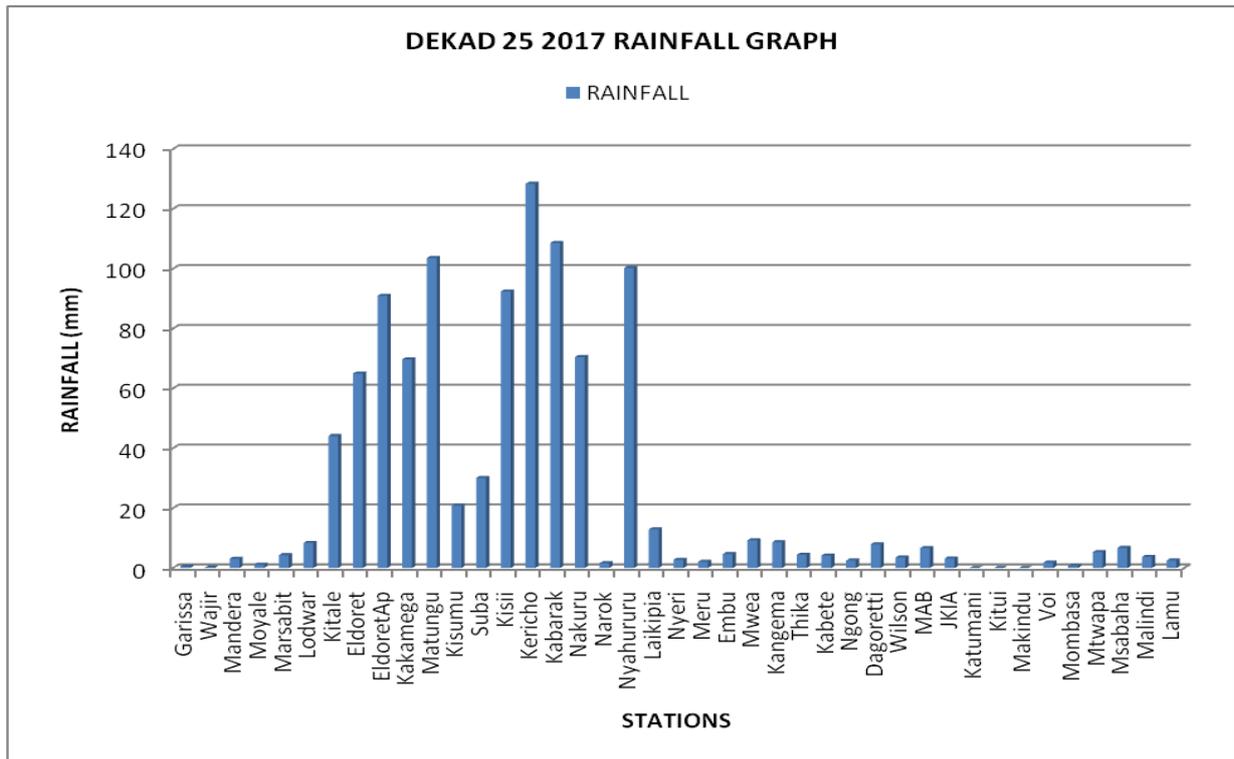


Figure 3.1: Dekadal rainfall totals for dekad 25, 2017

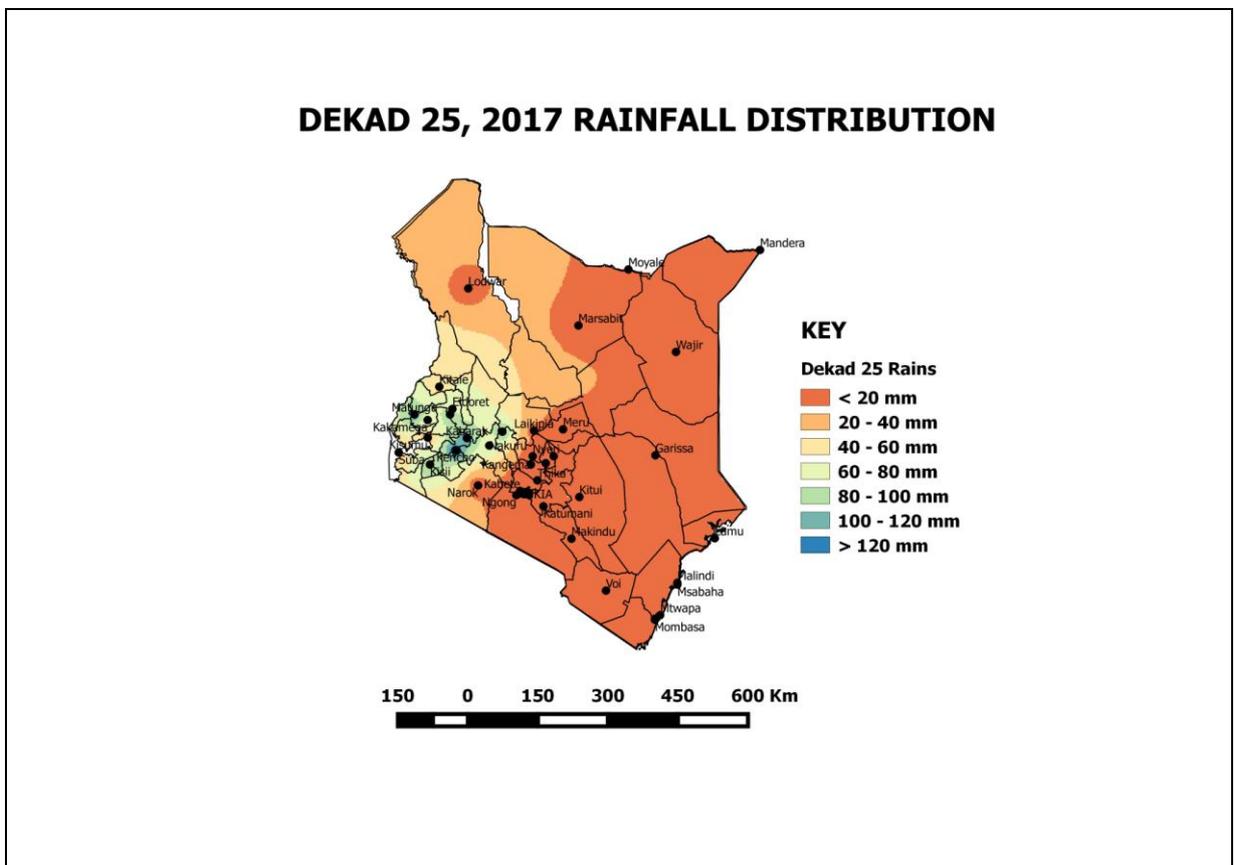


Figure 3.2: Dekadal rainfall distribution for dekad 25, 2017

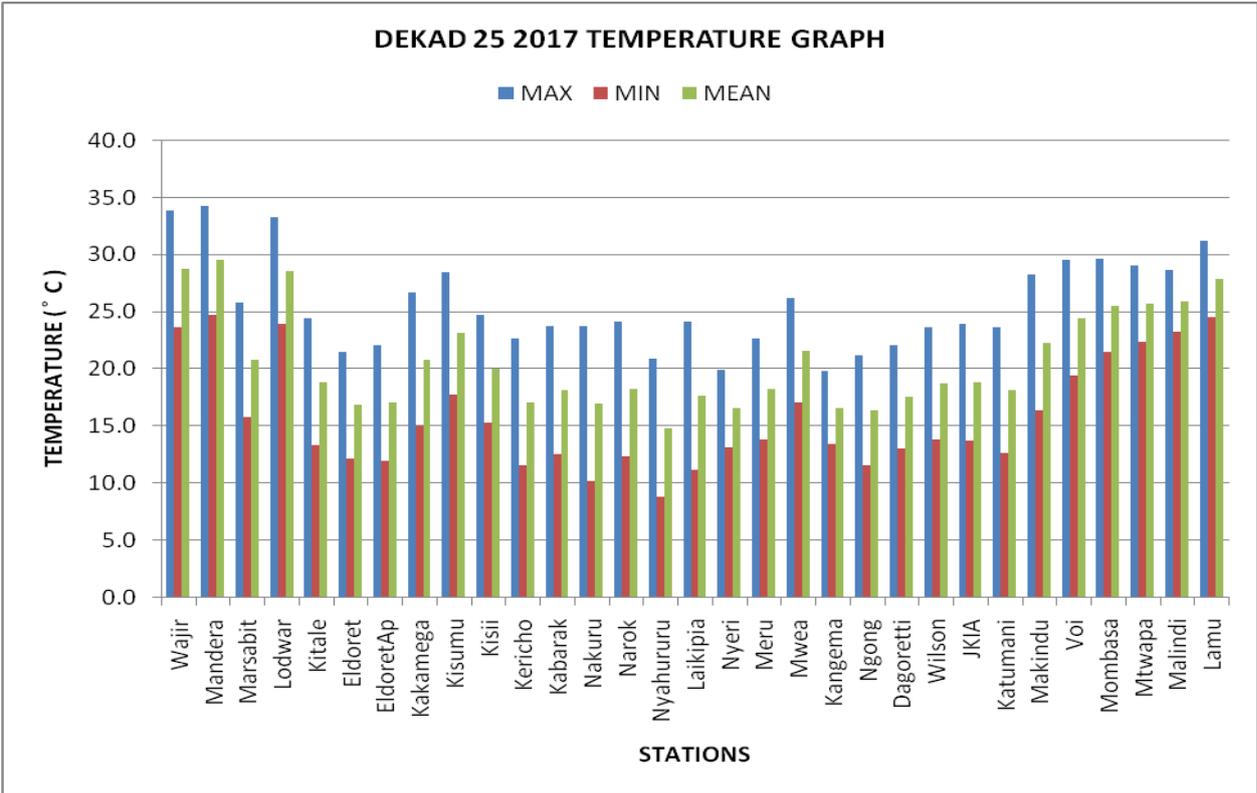


Figure 3.3: Maximum, Minimum and Average temperature for dekad 25, 2017

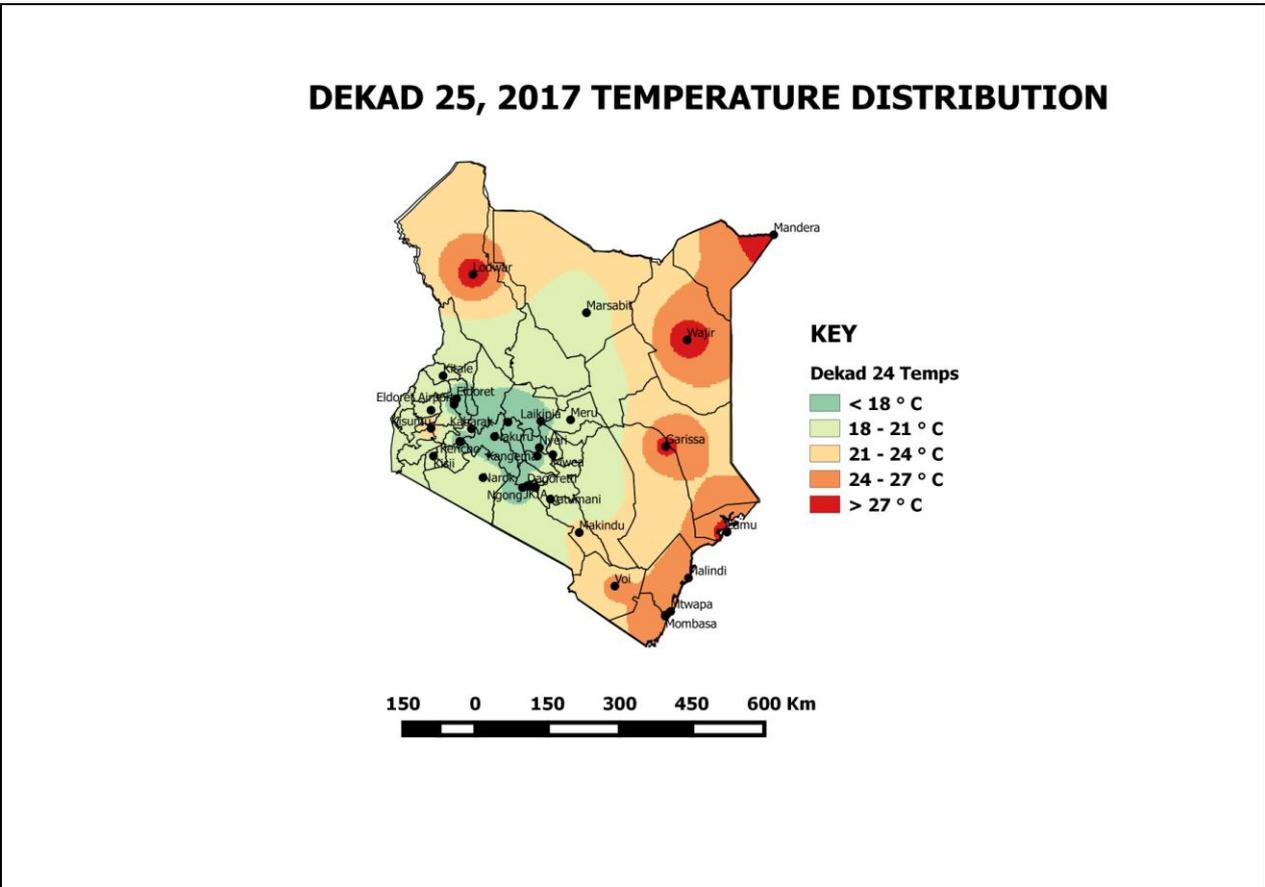


Figure 3.4: Mean temperature distribution for dekad 25, 2017

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11<sup>TH</sup> to 20<sup>TH</sup> SEPTEMBER 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 except on the 3<sup>rd</sup> and 6<sup>th</sup> days of the forecast period when rains over few places are expected. Afternoons are expected to experience showers and thunderstorms over several places for much of the forecast period reducing to few places from the 7<sup>th</sup> day to the end of the forecast period.

*The showers will be beneficial to the maize in Emergence, flowering and maturity stages in places like Kakamega, Eldoret and Kitale respectively.*

**The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals the entire day for much of the forecast period except on the 6<sup>th</sup> day when rains over few places, showers and thunderstorms over few places are expected in the morning and afternoon respectively.

*The showers will benefit 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 breaking into sunny intervals for much of the forecast period except on the 3<sup>rd</sup> day when morning rains are expected. There is a possibility of showers over few places in the Afternoons for much of the forecast period.

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

**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 continue to impact negatively 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 intervals will continue to 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 except on the 3<sup>rd</sup> day when there is a possibility of showers over few places in the morning.

*The sunny intervals will benefit the mangoes that are in harvesting stage in places like Msabaha and Mtwapa.*

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