



**KENYA METEOROLOGICAL DEPARTMENT**  
**DEKADAL AGROMETEOROLOGICAL BULLETIN**  
**WEATHER AND CROP REVIEW FOR DEKAD 6, 21<sup>ST</sup> -28<sup>TH</sup> FEBRUARY, 2018**

## **HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities increased in intensity but decreased slightly in spatial distribution. The highest rainfall countrywide was recorded in Western region where Kakamega station reported 59.0mm of rainfall compared to 44.0mm of rainfall reported at Matungu station in the same region in the previous dekad. The second highest rainfall of 48.8mm was reported at Kisumu station in Nyanza region. Central region reported the highest rainfall amount of 43.3 mm at Thika station. Kericho station in Rift Valley region recorded the highest rainfall amount of 37.0mm. North Eastern region received the highest rainfall amount of 20.4mm at Moyale station. Kabete station in Nairobi region recorded the highest rainfall amount of 11.7mm. Eastern region reported the highest rainfall amount of 1.1 mm at Meru station; Coastal region recorded dry conditions.

Both Maximum and Minimum temperatures increased in most stations during the dekad. Mandera station in North-Eastern region reported the highest temperature of 38.1°C; compared to 37.6°C recorded at the same station in the previous dekad. Nyahururu station continued to record the lowest temperature of 7.5°C compared to 6.2°C 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 5, 11<sup>TH</sup>-20<sup>TH</sup> FEBRUARY, 2018**

### **2.1 NYANZA AND WESTERN REGIONS**

#### **2.1.1 Kakamega**

The station recorded 59.0 mm of rainfall. The Mean air temperature recorded was 23.5°C. Sunshine duration was 9.3hrs/day. There was no report on total Pan Evaporation.

*Land preparation for long season is still going on in most farms and there was an increase in rainfall amount towards the end of the dekad.*

#### **2.1.2 Kisii**

The station recorded total rainfall amount of 17.6mm. The Mean air temperature and total Pan Evaporation recorded were 21.6°C and 24.6mm respectively. Sunshine hours reported was 8.0hrs/day.

*Land preparation is underway.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station recorded 1.0mm of rainfall. The Mean air temperature and Total pan Evaporation recorded were 22.0°C and 38.6mm respectively. There was no report on Sunshine parameter.

*No phenological report.*

### **2.2.2 Eldoret - Kapsoya**

The station recorded 11.6mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 19.1°C and 58.1mm respectively. There was no report on Sunshine parameter.

*No phenological report.*

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

### **2.3.1 Nyeri**

The station received 3.1mm of rainfall. The Mean air temperature recorded was 20.5°C. Sunshine duration was 9.5hrs/day. There was no report on total Pan Evaporation.

*Maize and Beans are in maturity and harvesting stages respectively. Both crops are in poor state due to insufficient rain and some diseases mainly stalk borer; hence expected yield is below normal.*

### **2.3.2 Kabete**

The station recorded 11.7 mm of rainfall. Total Pan Evaporation and Sunshine duration were 64.2mm and 10.2hrs/day respectively. There was no report on mean air temperature.

*Maize is at harvesting stage and in poor state due to insufficient rainfall, hence below normal yield is expected.*

### **2.3.3 Nyahururu**

The station received 1.5mm of rainfall. The mean air Temperature and total Pan Evaporation recorded were 17.0°C and 46.6mm respectively. No report on Sunshine parameter.

*Land preparation is underway for the coming long season.*

### **2.3.4 Dagoretti**

The station received 7.3mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 22.1°C and 51.3 mm respectively. Mean Sunshine hours reported was 10.0hrs/day.

*No Phenological report.*

### **2.3.5 Thika**

The station recorded 43.3mm of rainfall. Total pan evaporation recorded was 60.8.mm. There was no report on Mean air temperature and Sunshine duration.

*Land preparation is underway.*

## **2.4 EASTERN REGION**

### **2.4.1 Embu**

The station reported dry conditions. Total Pan Evaporation recorded was 57.0mm. There was no report on Mean Air Temperature and Sunshine parameters.

*Maize is at harvesting stage and in poor state due to insufficient rain; hence below normal yield is expected.*

### **2.4.2 Meru**

The station received 1.1mm of rainfall. The mean air Temperature and total Pan Evaporation recorded were 20.8°C and 42.1 mm respectively. There was no report on sunshine duration.

*Land preparation is underway.*

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

The station recorded 0.01mm of rainfall. The mean air Temperature recorded was 22.2°C. Total Pan Evaporation reported was 65.5mm. There was no report on Sunshine duration.

*Land preparation is underway.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station reported dry conditions. Total Pan Evaporation recorded was 47.5mm. Sunshine duration reported was 10.7hrs/day. There was no report on mean air Temperature.

*Land preparation is underway.*

### **2.5.2 Mtwapa**

The station reported dry conditions. The mean air Temperature and total Pan Evaporation recorded were 28.0°C and 61.5 mm respectively. Sunshine duration was 10.0hrs/day.

*Farmers have harvested their Maize crop.*

### **2.5.3 Lamu**

The station continued to report dry conditions. The Mean air temperature recorded was 28.8°C. Sunshine duration was 9.8hrs/day. There was no report on total Pan Evaporation.

*Cashew nuts have been harvested.*

# ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

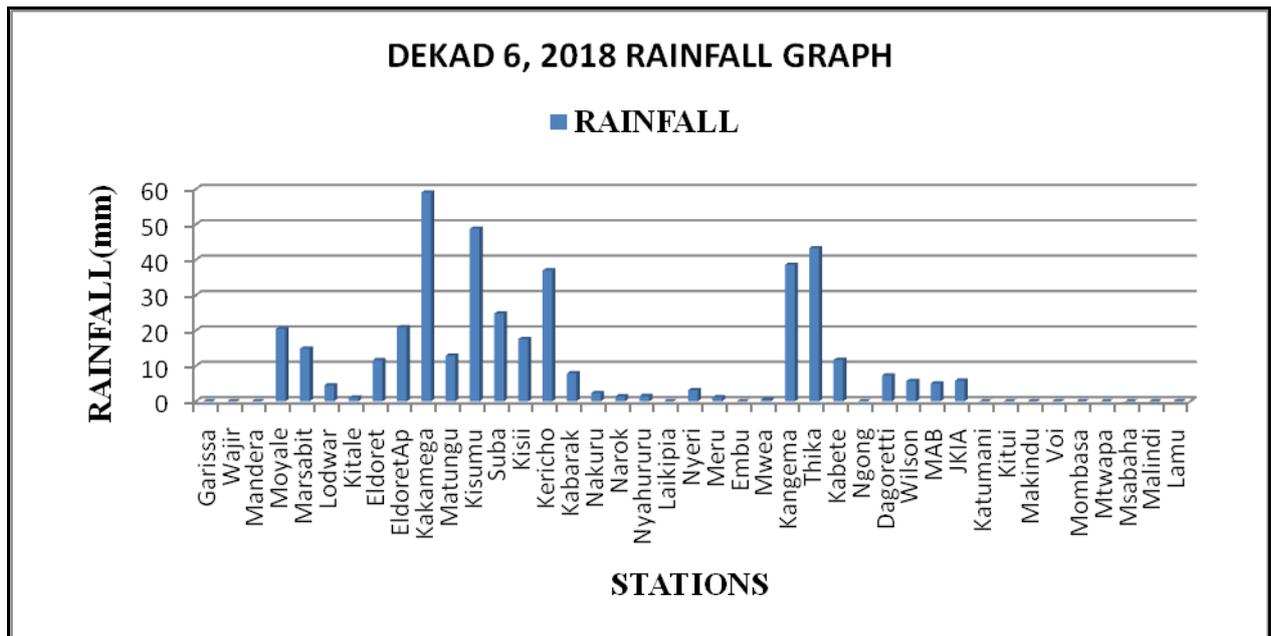


Figure 3.1: Dekadal rainfall totals for dekad 6, 2018

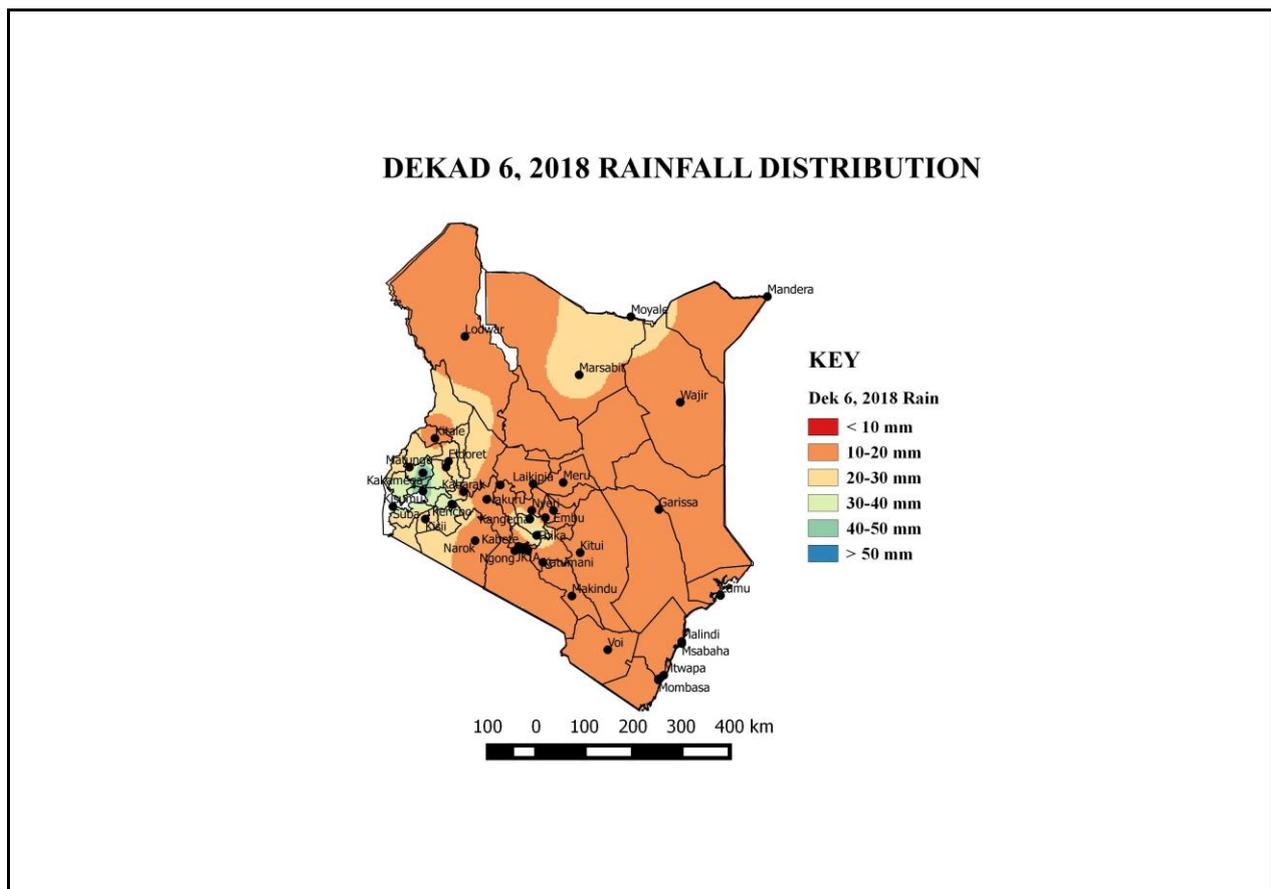


Figure 3.2: Dekadal rainfall distribution for dekad 6, 2018

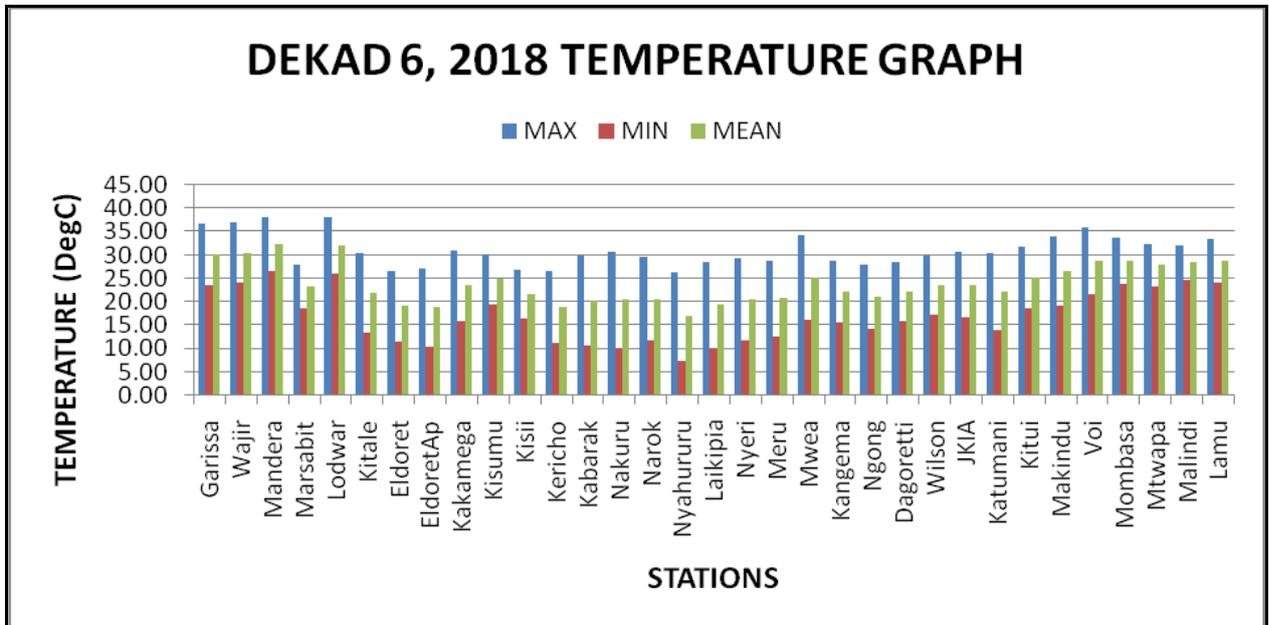


Figure 3.3: Maximum, Minimum and Average temperature for dekad 6, 2018

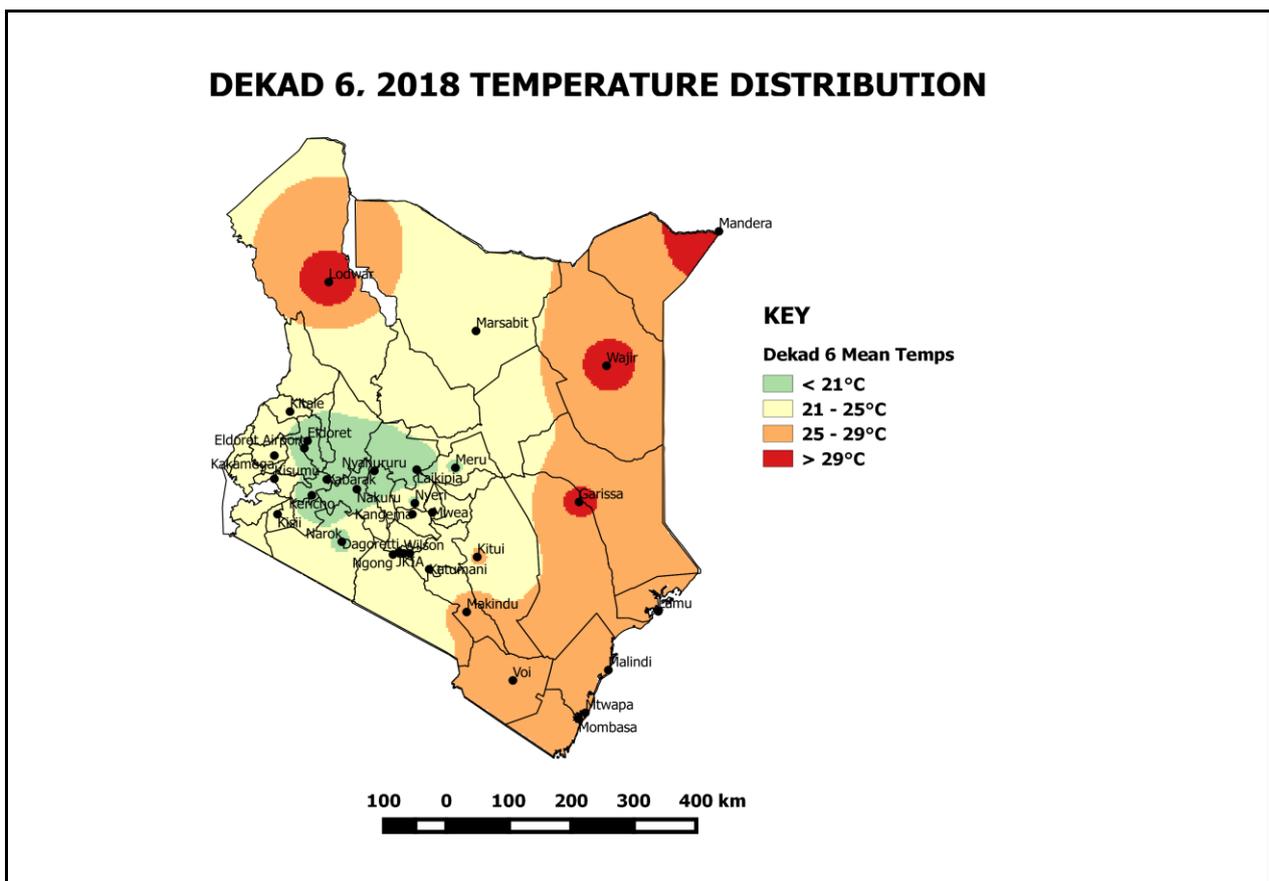


Figure 3.4: Mean temperature distribution for dekad 6, 2018

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1<sup>ST</sup> to 10<sup>TH</sup> MARCH 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),** expected to experience rains over several places in the morning on the first five days of the forecast period; reducing to few places on the 6<sup>th</sup> day and sunny intervals for the rest of the forecast period. Afternoons are expected to experience showers and thunderstorms over several places for the first five days of the forecast period reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter.

*The showers and rains will replenish the vegetation in these areas.*

**The Northwestern counties (Turkana, West Pokot and Samburu),** Mornings are expected to experience rains over several places for the first five days of the forecast period; reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over several places for the first five days of the forecast period; reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter.

*The showers and rains will have a positive impact on 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 rains over several places in the morning for the first five days of the forecast period; reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over several places for the first five days of the forecast period reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter.

*The wet conditions will have a positive impact on the pasture for the animals in this region.*

**Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** Morning are expected to experience rains over several places for the first five days of the forecast period; reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over several places for the first five days of the forecast period reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter.

*The showers and rains will have a positive impact on the pasture for the animals kept in this region.*

**Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)** are expected to experience rains over several places in the morning for the first five days of the forecast period; reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over several places for the first five days of the forecast period reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter.

*The wet conditions will benefit the vegetation and pasture for the animals kept in this region.*

**Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)** Mornings are expected to experience rains over several places in the morning for the first five days of the forecast period; reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter. Afternoons are expected to experience showers over several places for the first five days of the forecast period reducing to few places on the 6<sup>th</sup> day and sunny intervals thereafter.

*The showers and rains will benefit the vegetation in this region.*

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For feedback or further guidance, Contact:

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