



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 7, 1<sup>ST</sup> -10<sup>TH</sup> MARCH, 2018

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities drastically increased both in intensity and in spatial distribution. The highest rainfall countrywide was recorded in Nairobi region where Kabete station reported 206.0mm of rainfall compared to 59.0mm of rainfall reported at Kakamega station in Western region in the previous dekad. The second highest rainfall of 194.2mm was reported at Makindu station in Eastern region. Western region received the highest rainfall amount of 124.1 mm at Kakamega station. Narok station in Rift Valley region recorded the highest rainfall amount of 123.5mm. Nyanza region recorded the highest rainfall amount of 108.9mm. Laikipia station in Central region received the highest rainfall amount of 101.5mm. Coastal region recorded the highest rainfall amount of 90.0 mm at Voi station; while North-Eastern region reported 80.1mm of rainfall at Moyale station.

Maximum temperatures decreased drastically in most stations, while Minimum temperatures were also on decreasing trend. Mandera station in North-Eastern region continued to report the highest temperature of 37.3<sup>0</sup>C; compared to 38.1<sup>0</sup>C recorded at the same station in the previous dekad. Nyahururu station continued to record the lowest temperature of 10.5<sup>0</sup>C compared to 7.5<sup>0</sup>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 7, 1<sup>ST</sup>-10<sup>TH</sup> MARCH, 2018

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

The station recorded 124.1 mm of rainfall. The Mean air temperature recorded was 21.6<sup>0</sup>C. Sunshine duration was 5.0hrs/day. There was no report on total Pan Evaporation.

*Land preparation is still underway but some farmers have started planting.*

#### 2.1.2 Kisii

The station recorded total rainfall amount of 108.9mm. The Mean air temperature and total Pan Evaporation recorded were 19.9<sup>0</sup>C and 27.9mm respectively. Sunshine hours reported was 3.90hrs/day.

*Farmers have started planting.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station recorded 74.3mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 19.4°C and 33.3mm respectively. There was no report on Sunshine parameter.

*Land preparation is underway.*

### **2.2.2 Eldoret - Kapsoya**

The station recorded 75.7mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 17.2°C and 41.2mm respectively. There was no report on Sunshine parameter.

*Land preparation is underway.*

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

### **2.3.1 Nyeri**

The station received 64.5mm of rainfall. The Mean air temperature recorded was 19.5°C. Sunshine duration was 5.1hrs/day. There was no report on total Pan Evaporation.

*Some farmers are still harvesting Maize and preparing land, while others have started planting.*

### **2.3.2 Kabete**

The station recorded 206.0 mm of rainfall. Total Pan Evaporation and Sunshine duration were 22.5mm and 4.6hrs/day respectively. There was no report on mean air temperature.

*Land preparation still underway.*

### **2.3.3 Nyahururu**

The station received 67.8mm of rainfall. The mean air Temperature recorded was 16.7°C. There was no report on total Pan Evaporation and Sunshine parameter.

*Land preparation is still underway in some farms and some farmers have started planting.*

### **2.3.4 Dagoretti**

The station received 113.3 of rainfall. The Mean air temperature and total Pan Evaporation reported were 19.4°C. 32.8mm respectively. Sunshine hours reported was 10.0hrs/day.

*No Phenological report.*

### **2.3.5 Thika**

The station recorded 40.5mm of rainfall. Total pan evaporation recorded was 36.5mm. There was no report on Mean air temperature and Sunshine duration.

*Planting of crops is underway in most farms.*

## **2.4 EASTERN REGION**

### **2.4.1 Embu**

The station received 87.5mm of rainfall. Total Pan Evaporation recorded was 37.8mm. Sunshine hrs was 5.4hrs/day. There was no report on Mean Air Temperature.

*Planting of crops is underway in most farms.*

### **2.4.2 Meru**

The station received 108.7mm of rainfall. The mean air Temperature and total Pan Evaporation recorded were 19.5°C and 35.7 mm respectively. There was no report on sunshine duration.

*Farmers have started planting their crops.*

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

The station recorded 107.6mm of rainfall. The mean air Temperature recorded was 20.9°C. Total Pan Evaporation reported was 36.7mm. Sunshine duration was 5.3hrs/day.

*Some farmers have started planting their crops.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station received 6.9mm of rainfall. Total Pan Evaporation recorded was 40.4mm. Sunshine duration reported was 5.7hrs/day. There was no report on mean air Temperature.

*Land preparation is still ongoing.*

### **2.5.2 Mtwapa**

The station continued to report dry conditions. The mean air Temperature and total Pan Evaporation recorded were 27.2°C and 69.0 mm respectively. Sunshine duration was 8.1hrs/day.

*Land preparation*

### **2.5.3 Lamu**

The station recorded 23.0mm of rainfall. The Mean air temperature recorded was 28.5°C. Sunshine duration was 6.0hrs/day. There was no report on total Pan Evaporation.

*Land preparation is underway in some farms.*

# ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

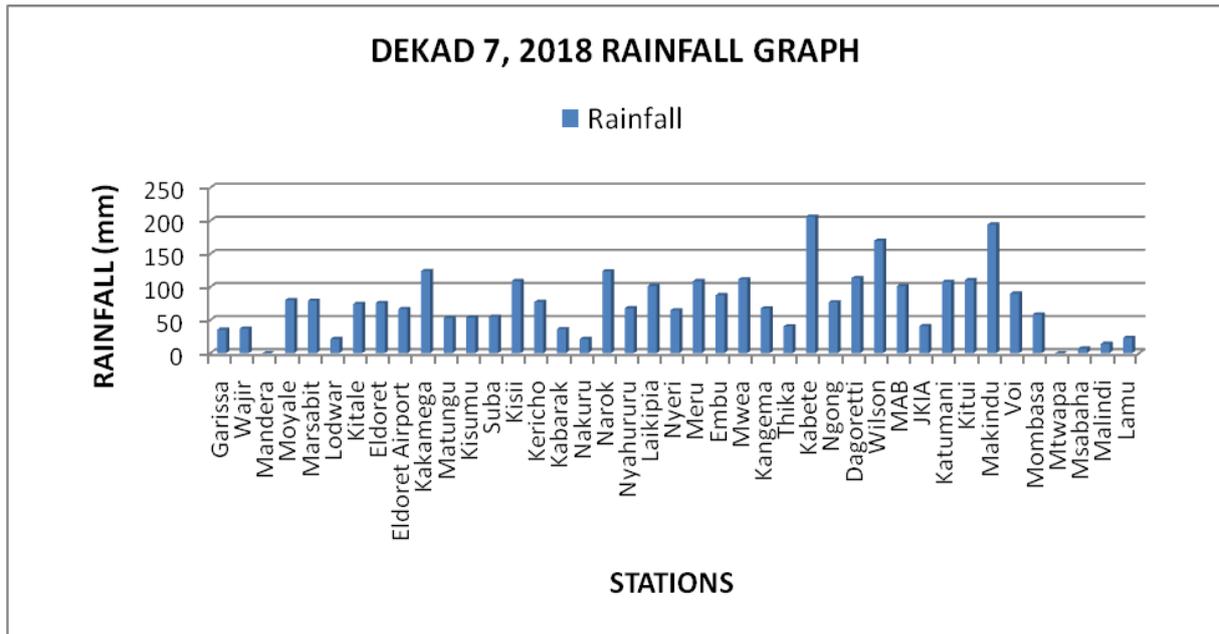


Figure 3.1: Dekadal rainfall totals for dekad 7, 2018

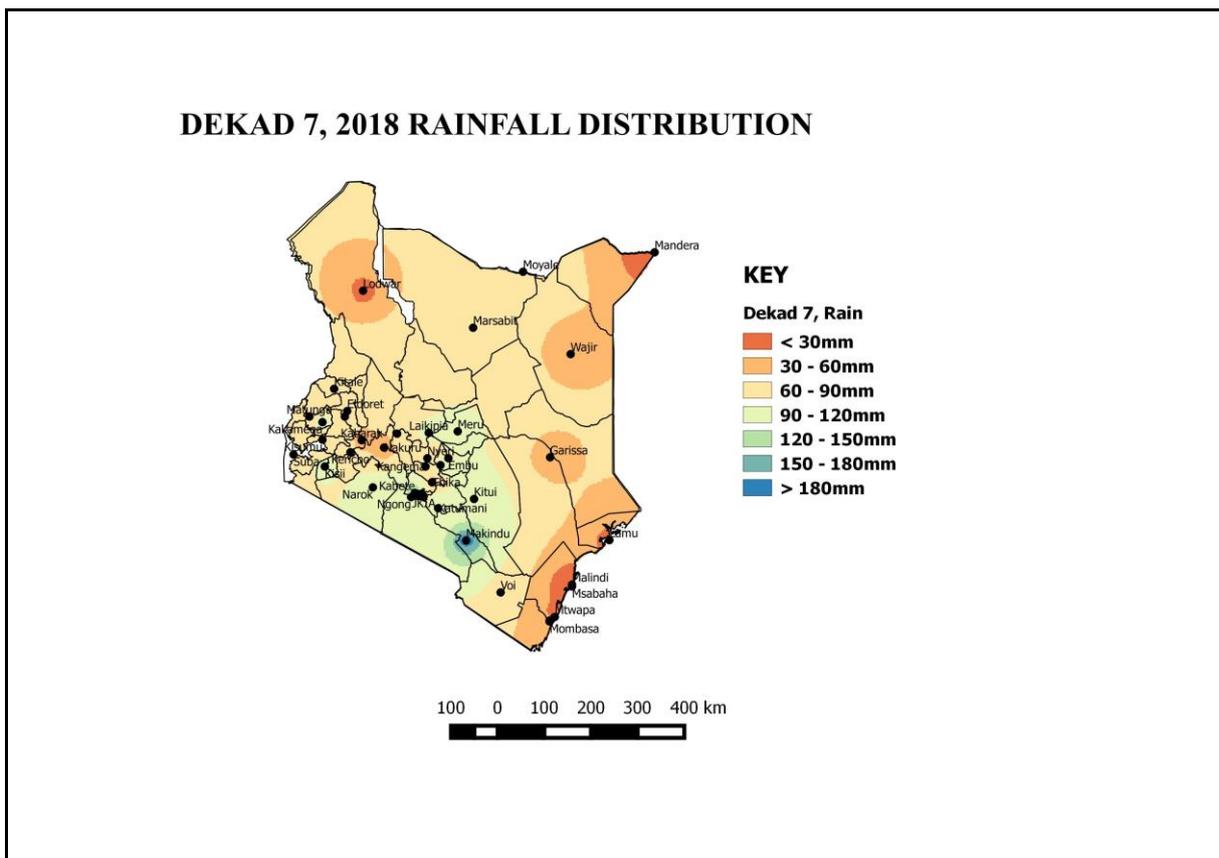


Figure 3.2: Dekadal rainfall distribution for dekad 7, 2018

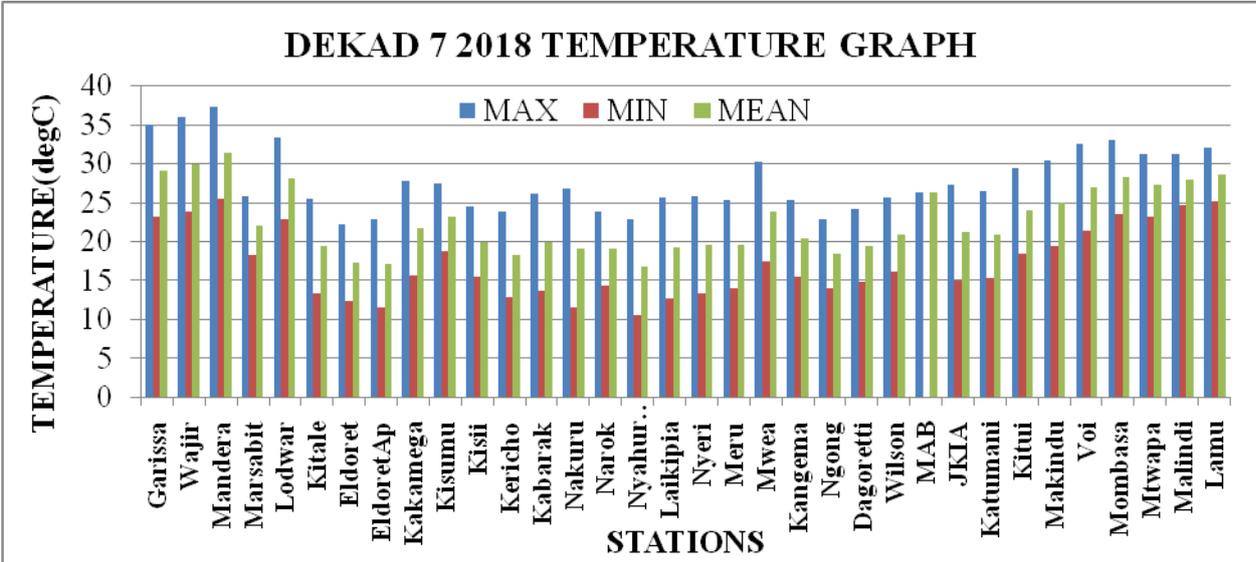


Figure 3.3: Maximum, Minimum and Average temperature for dekad 7, 2018

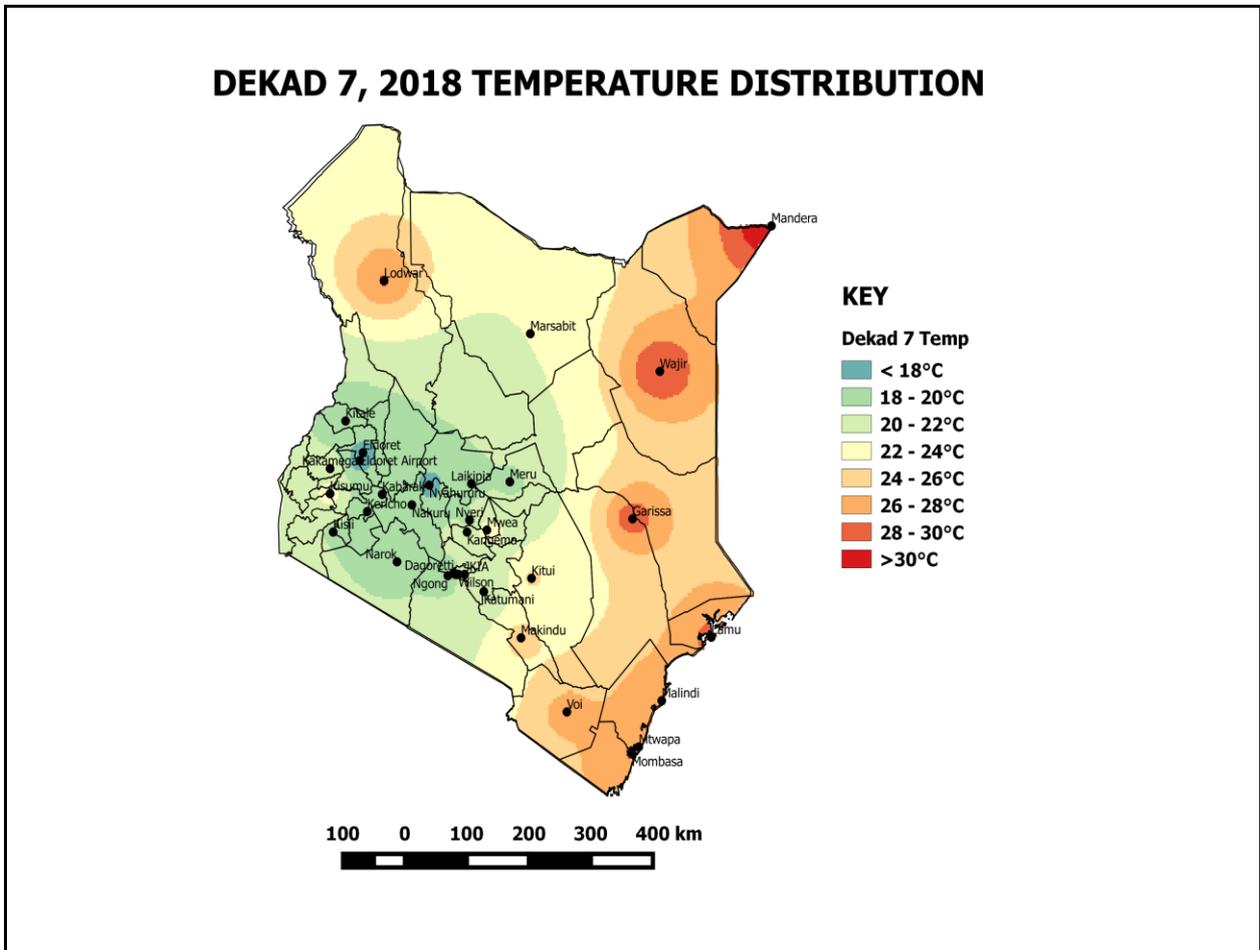


Figure 3.4: Mean temperature distribution for dekad 7, 2018

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11<sup>TH</sup> to 20<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 over much of the forecast period. Afternoon/Evening showers and thunderstorms are expected over several places throughout the forecast period.

*The showers and rains will be of great benefit to the crops being planted in places like Kisii, Kakamega etc.*

**The Northwestern counties (Turkana, West Pokot and Samburu),** Mornings are expected to experience sunny intervals for the first four days of the forecast period, followed by rains over several places for the next two days, reducing to few places thereafter. Afternoons are expected to experience showers and thunderstorms over few places for the first four days of the forecast period, increasing to several places for the next two days, reducing to few places thereafter.

*The showers and rains will continue replenishing 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 rains over several places in the morning throughout the forecast period. Afternoons are expected to experience showers and thunderstorms over several places throughout the forecast period.

*The rains and showers will be very beneficial to the crops that are being planted in places like Kabete, Thika etc.*

**Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** Mornings are expected to experience sunny intervals for the first three days, followed by rains over few places from the 4<sup>th</sup> day, increasing to several places for three days, then reducing to few places thereafter. Afternoons are expected to experience sunny intervals for the first three days, followed by showers and thunderstorms over few places on the 4<sup>th</sup> day, increasing to several places for two days then reducing to few places 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 mainly rains over several places throughout the forecast period. Afternoons are expected to experience showers over several places for the first three days of the forecast period, followed by showers and thunderstorms over several places for the next three days, then showers over several places thereafter.

*The rains and showers will continue to replenish 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 sunny intervals for the first three days of the forecast period, followed by showers over several places for the next three days, reducing to few places thereafter. Afternoons are expected to experience showers over few places for the first five days of the forecast period, increasing to several places thereafter.

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

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