



# KENYA METEOROLOGICAL DEPARTMENT

## DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 9, 21<sup>ST</sup> -31<sup>ST</sup> MARCH, 2017

### 1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities increased both in intensity and in spatial distribution during the dekad. Kakamega station in Western region received the highest rainfall amount of 139.1mm compared to 63.1mm reported at Mtwapa station in Coastal region in the last dekad. Kisumu station at Nyanza region recorded the highest rainfall amount of 119.5mm at. Matungu station in Western region reported the highest rainfall amount of 60.8mm. Narok station in Rift Valley region received the highest rainfall amount of 60.5mm. Kabete station in Nairobi region reported the highest rainfall amount of 50.9mm. Mwea station in Eastern region recorded the highest rainfall amount of 46.9mm. Msabaha station in Coastal region reported the highest rainfall amount of 30.3mm. Kangema station in Central region received total rainfall amount of 29.0mm; while Moyale station in North Eastern region reported the highest rainfall amount of 14.2mm.

Maximum temperatures decreased drastically, while minimum temperatures were still on an increasing trend. Mandera station in North Eastern region reported the highest maximum temperature of 38.8°C compared to 38.8°C recorded at Lodwar station in the same region in the last dekad. Nyahururu station in Central region continued to record the lowest minimum temperature of 8.2°C compared to 7.5°C reported in the same station in the last dekad.

For a more comprehensive summary of rainfall and other meteorological parameters, see Figures 3.1 to 3.4 as shown below.

### 2. CROP AND WEATHER REVIEW FOR DEKAD 9, 21<sup>ST</sup> - 31<sup>ST</sup> MARCH, 2017

#### 2.1 NYANZA AND WESTERN REGIONS

##### 2.1.1 Kakamega

Total rainfall amount recorded was 139.1mm. The mean air temperature reported was 22.7°C. There was no report on total Pan Evaporation.

*Maize and Beans are still in emergence stage and in fair state. However some crops have been affected by army worms.*

##### 2.1.2 Kisii

The station recorded total rainfall amount of 30.4mm. The mean air temperature and total Pan Evaporation reported were 21.9°C and 38.2mm respectively.

*Maize and Beans were still at emergence stage and in good state. Most farmers have started weeding their crops.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station recorded total rainfall amount of 42.9mm. The mean air temperature reported was 21.4°C. There was no report on total Pan Evaporation.

*Maize and Beans were at emergence stage and in fair state.*

### **2.2.2 Eldoret - Kapsoya**

The station reported total rainfall amount of 33.1mm. The mean air temperature and total Pan Evaporation were 19.4°C and 76.6mm respectively.

*Some farmers have planted their crops.*

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

### **2.3.1 Nyeri**

Total amount of rainfall recorded was 2.1mm. The mean air temperature reported was 20.9°C. There was no report on total Pan Evaporation.

*Maize and Beans were at emergence and in fair condition.*

### **2.3.2 Kabete**

The station received 50.9mm of rainfall. Total Pan Evaporation was 64.4mm. There was no report on mean air temperature.

*Some farmers have planted their crops.*

### **2.3.3 Nyahururu**

The station recorded 9.4mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 17.3 °C and 70.4mm respectively.

*Some farmers have planted their crops, but most of them are still on land preparation.*

### **2.3.4 Dagoretti**

The station reported total rainfall amount of 30.1mm. Total pan evaporation was 58.6mm and there was no report on Mean air temperature.

*No Phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station recorded 33.3mm of rainfall. Total Pan Evaporation reported was 67.8mm. There was no report on Mean air temperature

*Most farmers have started planting.*

### **2.4.2 Meru**

The station received 6.8mm of rainfall.. Mean Air Temperature and total Pan Evaporation reported were 21.8°C and 58.3mm respectively.

*Land preparation is still underway.*

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

The station recorded 37.0mm of rainfall. The mean air temperature reported was 22.4°C.

*Most farmers have planted their crops.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

Total amount of rainfall received was 30.3mm. Total Pan Evaporation reported was 53.3mm and there was no report on mean air Temperature.

*Some farmers have started planting as there was some rainfall within the Dekad.*

### **2.5.2 Mtwapa**

The station recorded total rainfall amount of 27.2mm. The Mean air temperature and total pan evaporation recorded were 29.2°C and 62.2mm respectively.

*Some farmers have started planting. Mangoes were at flowering stage and in fair state.*

### 3. ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

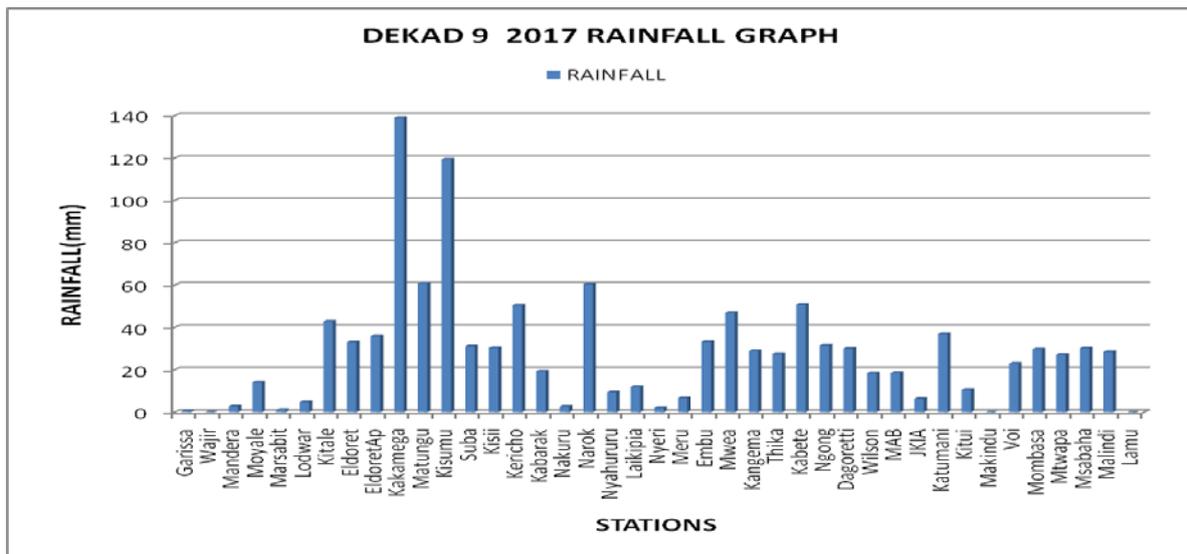


Figure 3.1: Dekadal rainfall totals for dekad 9, 2017

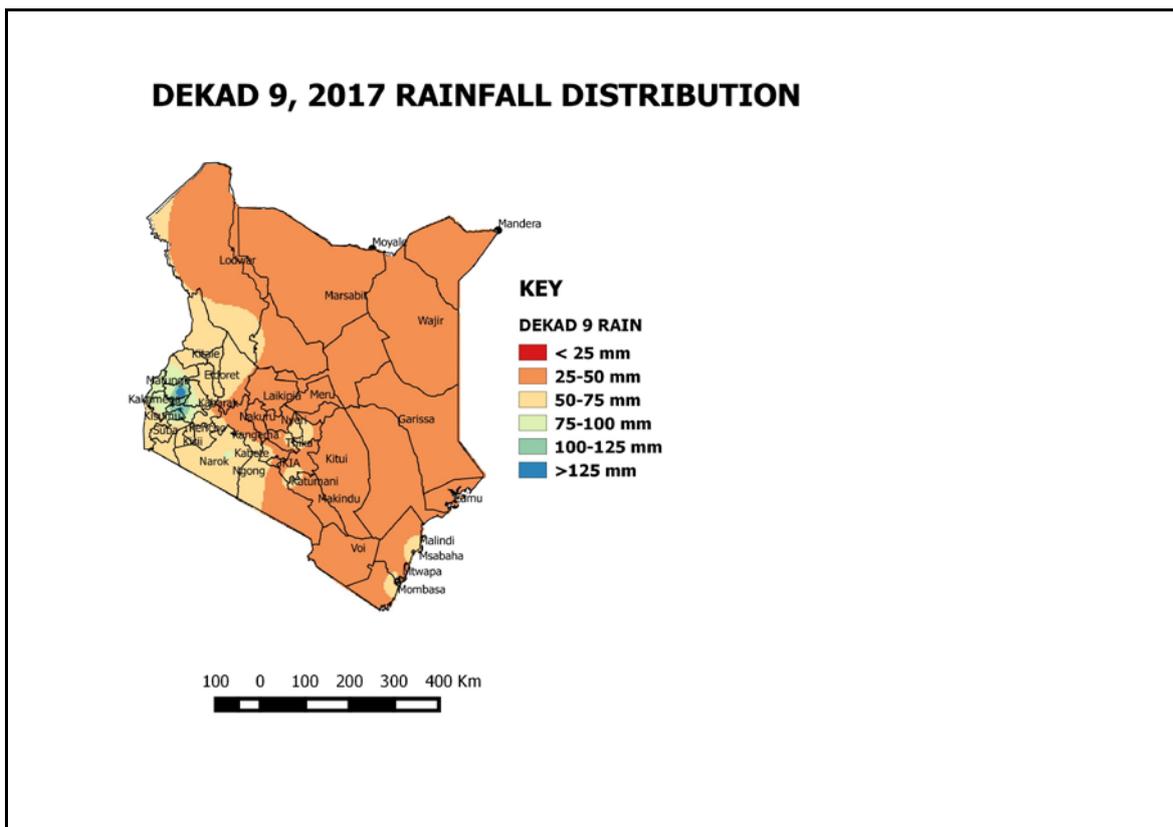


Figure 3.2: Dekadal rainfall distribution for dekad 9, 2017

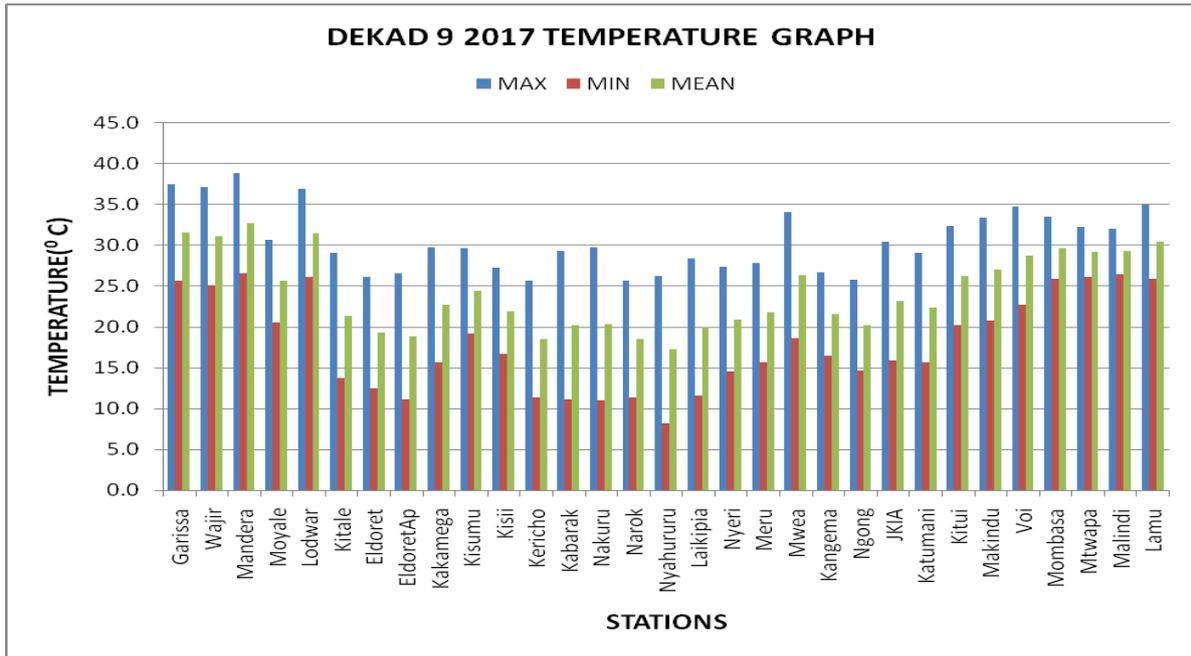


Figure 3.3: Maximum, Minimum and Average temperature for dekad 9, 2017

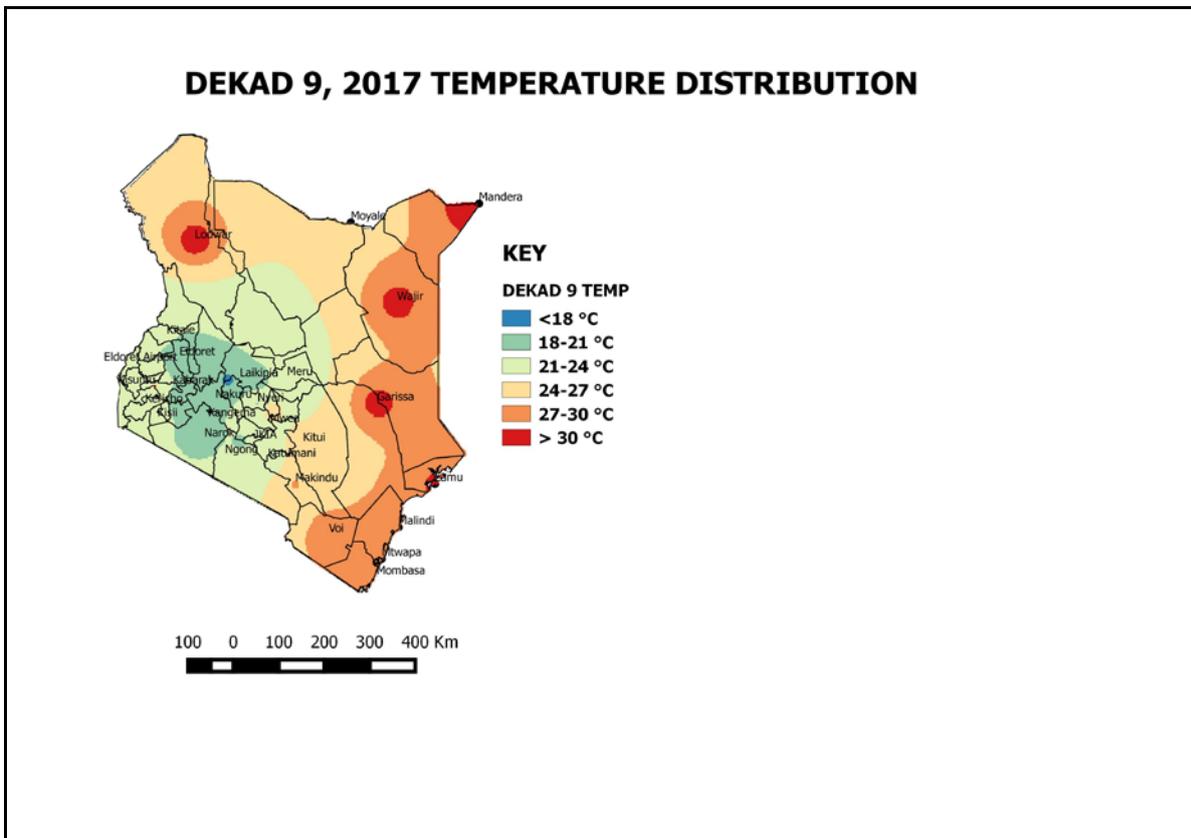


Figure 3.4: Mean temperature distribution for dekad 9, 2017

#### **4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1<sup>ST</sup> to 10<sup>th</sup> APRIL 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),** are expected to experience mainly sunny intervals in the morning with a likelihood of rains on the 7<sup>th</sup> and 8<sup>th</sup> days. Afternoons are expected to experience showers and thunderstorms over few places, increasing to several places thereafter.

*The showers will continue to benefit the crops like maize and Beans that are in emergence state in places like Kitale, Kisii and Kakamega.*

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals the entire day throughout the forecast period.

*The expected sunny intervals will have a negative impact on the pasture and the vegetation for the animals kept in these regions.*

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga),** are expected to experience mainly sunny intervals for the first seven days, followed by showers over several places thereafter. Afternoons are expected to experience showers over few places on the first six days of the forecast period, increasing to several places thereafter.

*The rains and showers will be of advantage to the crops that have been planted in places like Kabete and Nyahururu.*

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience rains over few places in the morning for the first 6 days of the forecast period; increasing to several places thereafter. Afternoons are expected to experience showers over few places throughout the entire forecast period.

*The expected rains will continue replenishing the pasture for the animals kept in these regions.*

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)** are expected to experience sunny intervals in the morning for the first seven days; followed by rains over few places thereafter. Afternoon are expected to experience showers over few places for the first four days, breaking into sunny intervals for the next 3 days and followed by showers over few places thereafter.

*The rains and showers will continue to benefit the vegetation and pasture for the animals kept in these areas.*

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)** Mornings are expected to experience mainly showers over few places throughout the forecast period. Afternoons are expected to experience showers over few places for the first four days, breaking into sunny intervals for the next 2 days, followed by showers over few places thereafter.

*The showers will be of great advantage to the crops being planted in places like Msabaha.*

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