



KENYA METEOROLOGICAL DEPARTMENT  
**DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 3, 21<sup>ST</sup> – 31<sup>ST</sup> JANUARY, 2017**

**1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities have increased drastically both in intensity and in spatial distribution. Nyanza region received the highest rainfall amount of 67.0mm at Kisumu station compared to 21.4mm reported at Nyeri station in Central region in the last dekad. Matungu station in the Western region recorded the highest rainfall amount of 54.1mm. Rift valley region reported the highest rainfall amount of 48.3mm at Eldoret Airport. Moi Airbase station in Nairobi region received the highest rainfall amount of 38.6mm. Central region reported the highest rainfall amount of 17.6mm at Nyeri station. Lodwar station in North Eastern region recorded the highest rainfall amount of 9.0mm. Eastern region received the highest rainfall amount of 3.2mm at Meru station; Voi station in the Coastal region reported the highest rainfall amount of 3.1mm.

Maximum temperatures decreased while Minimum temperatures increased drastically. Lodwar station in North Eastern region continued to record the highest Maximum temperature of 37.2°C. The lowest minimum Temperature of 6.4°C was recorded at Nyahururu station in Central region compared to 4.4°C reported at 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 3, 21<sup>ST</sup> TO 31<sup>ST</sup> JANUARY, 2017**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

Total rainfall recorded was 24.8mm. Total Pan Evaporation was 56.3mm. There was no report on mean air temperature.

*Land preparation is underway.*

**2.1.2 Kisii**

The station recorded total rainfall amount of 30.5 mm. The mean air temperature and total Pan Evaporation recorded were 22.9°C and 43.0mm respectively.

*Maize is at harvest stage; in poor state, hence below normal harvest is expected.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station recorded total rainfall of 26.1mm. Total Pan Evaporation reported was 58.6 mm. There was no report on mean air temperature.

*No phenological report*

### **2.2.2 Eldoret - Kapsoya**

Total rainfall recorded was 44.3mm. The mean air temperature and total Pan Evaporation were 18.9°C and 79.8mm respectively.

*No phenological report.*

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

### **2.3.1 Nyeri**

Total amount of rainfall recorded was 17.6mm. The mean air temperature reported was 18.9°C. There was no report on total Pan Evaporation.

*Maize and beans were at emergence and flowering stages respectively. Both were in failure state due to insufficient rain and attack by insects which have affected the beans.*

### **2.3.2 Kabete**

The station recorded total rainfall of 27.8mm. Total Pan Evaporation was 67.8mm. There was no report on mean air temperature.

*Maize and Beans were both adversely affected by too much sun and below normal yield is expected.*

### **2.3.3 Thika**

The station continued to report dry conditions. The average air temperature and total Pan Evaporation recorded were 20.9°C and 64.2mm respectively.

*Maize is in maturity stage and in failure state due to prolonged sunny conditions; hence below normal yield is expected. Beans and Potatoes have been harvested.*

### **2.3.4 Nyahururu**

The station recorded 13.8mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 15.6°C and 63.4mm respectively.

*Harvesting of maize is complete*

### **2.3.5 Dagoretti**

The station recorded total rainfall of 10.3mm. Total pan evaporation was 64.8mm and there was no report on Mean air temperature.

*No Phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station continued to report dry conditions. Total Pan Evaporation reported was 66.0mm. There was no report on Mean air temperature

*Maize is at flowering stage and in poor state due to insufficient rain, hence below normal yield is expected. Beans have been harvested.*

### **2.4.2 Meru**

The station recorded total rainfall of 3.2mm. Mean Air Temperature and total Pan Evaporation was 18.5<sup>0</sup>C and 45.7mm respectively.

*Maize is at flowering stage and in failure state due to insufficient rain. Beans were at flowering stage and in poor state, hence below normal yield are expected.*

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

The station recorded total rainfall of 0.2mm. The mean air temperature and total Pan Evaporation reported were 21.1<sup>0</sup>C and 83.0mm respectively.

*The Maize crop is at flowering and in failure state due to the prolonged sunny conditions. Beans are at maturity stage and in poor state, hence below normal yield are expected.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

Total amount of rainfall recorded was 0.02mm. Total Pan Evaporation reported was 52.0mm. There was no report on mean air Temperature.

*Maize crop that was in a few farms have dried up due to the prevailing dry conditions. Mangoes were at 30% fruit setting and in good state.*

### **2.5.2 Mtwapa**

The station continued to report dry conditions. The Mean air temperature and total pan evaporation reported were 28.3<sup>0</sup>C and 69.5mm respectively.

*Mangoes were at harvest stage and in fair state.*

### 3. ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

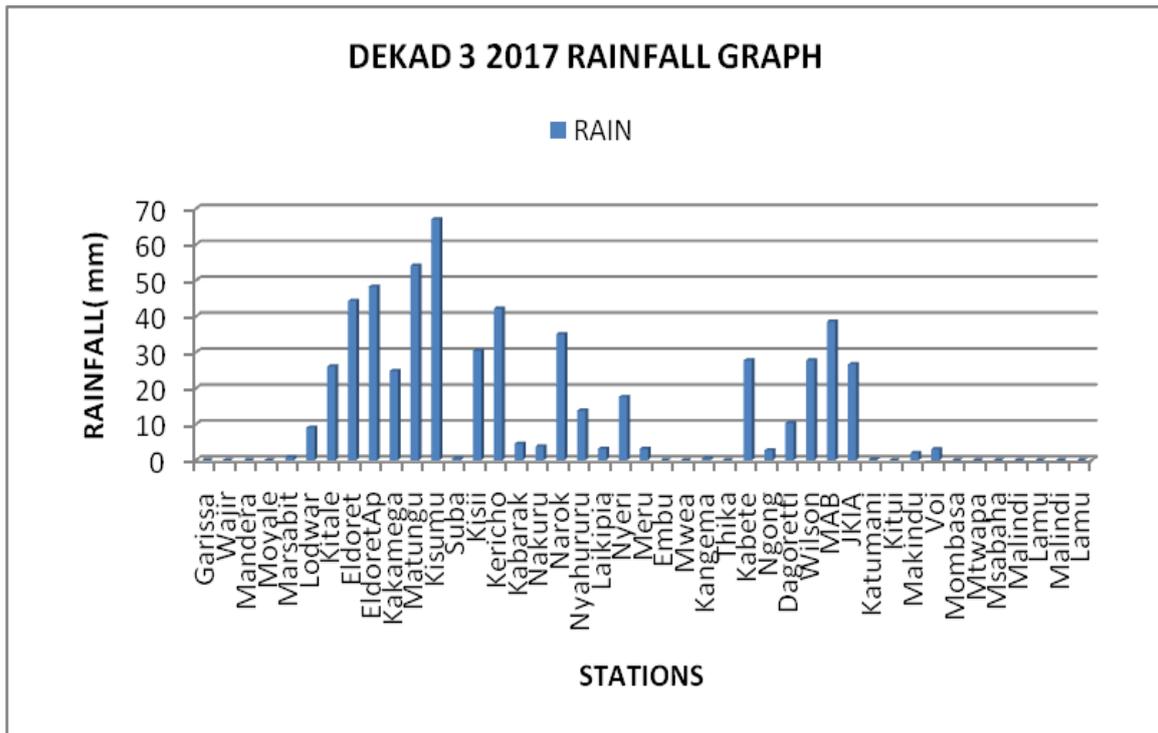


Figure 3.1: Dekadal rainfall totals for dekad 3, 2017

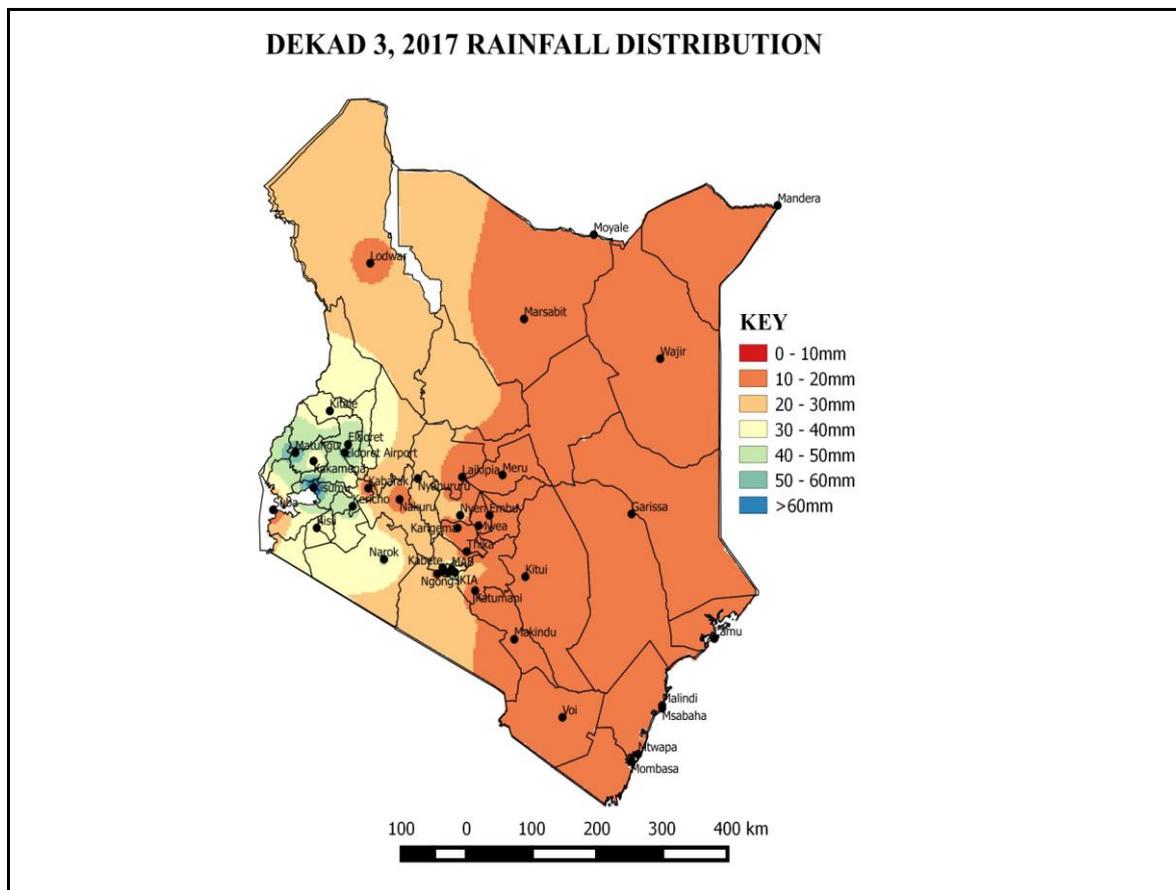


Figure 3.2: Dekadal rainfall distribution for dekad3, 2017

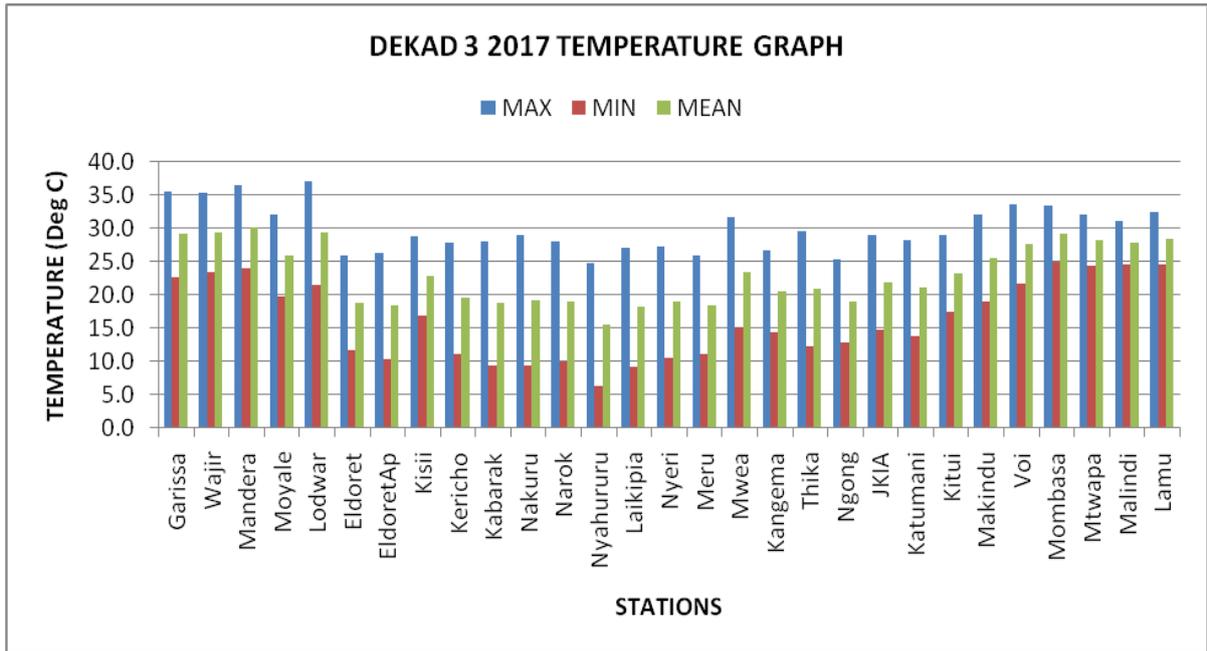


Figure3.3: Maximum, Minimum and Average temperature for dekad 3, 2017

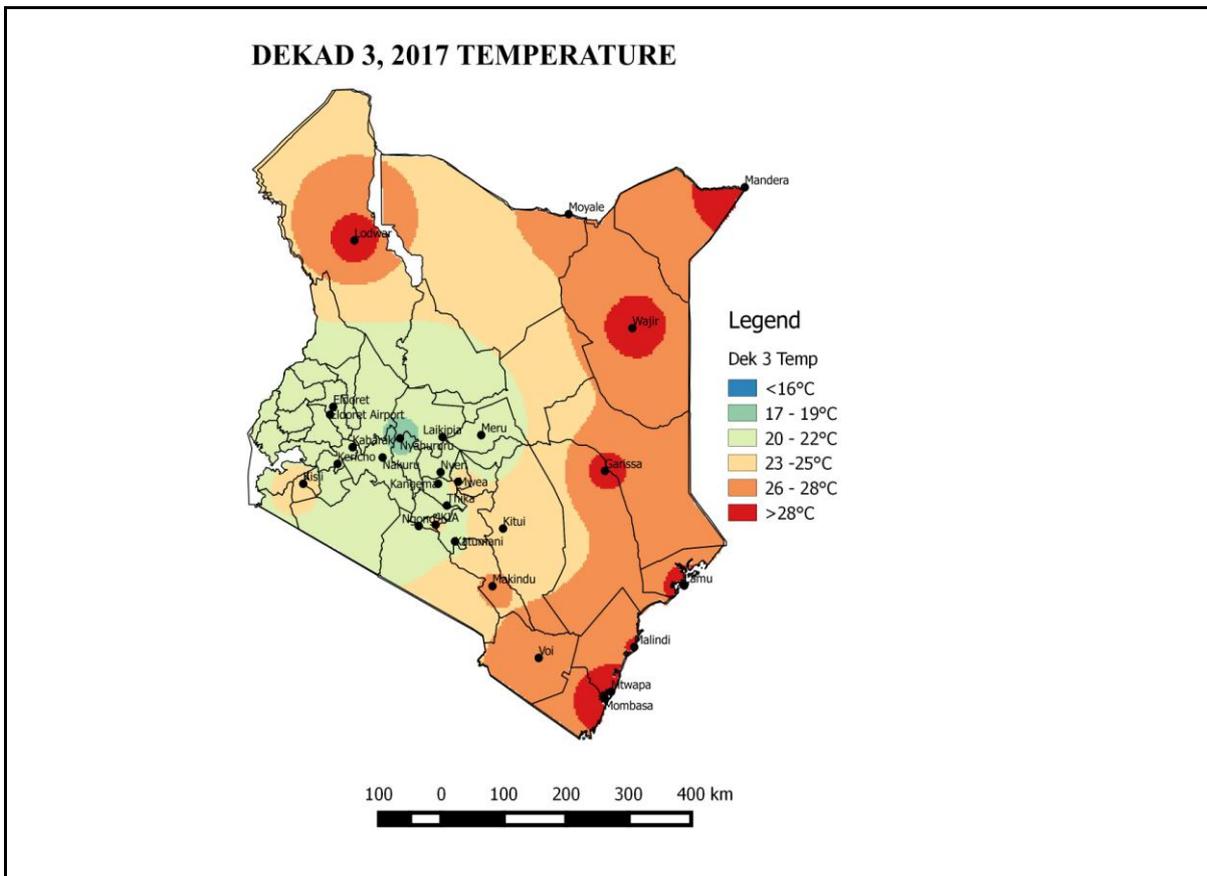


Figure 3.4: Mean temperature distribution for dekad 3, 2017

**4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1<sup>st</sup> to 10<sup>th</sup> February 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 throughout the forecast period except on the 3<sup>rd</sup> to 5<sup>th</sup> days when there is likelihood of rains over few places. Afternoons are expected to experience showers and thunderstorms over few places throughout the forecast period.

*The wet conditions will have a positive effect on the vegetation and pasture in these regions.*

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals the entire day throughout the forecast period. However, areas bordering Uganda are expected to experience showers over few places in the Afternoon on the fourth and the fifth days of the forecast period.

*The Showers will replenish the pasture 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 sunny intervals in the morning throughout the forecast period. Afternoons are expected to experience showers over few places from the 4<sup>th</sup> day to the end of the forecast period.

*The Showers will be of advantage to the vegetation and pasture for the animals kept in these regions.*

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience sunny intervals the entire day throughout the forecast period except on the 4<sup>th</sup>, to 7<sup>th</sup> day when rains over few places will be experienced. Showers over few places are expected in the afternoon on the 4<sup>th</sup> to 6<sup>th</sup> day of the forecast period.

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

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)** are expected to experience sunny intervals throughout the forecast period, except on the 4<sup>th</sup> and the 5<sup>th</sup> days when rains in the morning and showers in the afternoon over few places are expected.

*The showers will be of great advantage on the vegetation and pasture for the animals kept in these areas.*

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)** are expected to experience sunny intervals for the entire day throughout the forecast period except on the 4<sup>th</sup> and the 5<sup>th</sup> days when showers over few places in the morning are expected.

*The showers will benefit the pasture in this region.*

---

***For feedback or further guidance, Contact:***

Director,  
Kenya Meteorological Department,  
Agro meteorological Advisory Services Division,  
Dagoretti Corner, Ngong Road,  
P.O. Box 30259, 00100 GPO, Nairobi  
Tel: +254 (0)20 3867880-7/3876957/3873682;  
Fax: +254 (0)20 3876955  
E-mail: [agromet@meteo.go.ke](mailto:agromet@meteo.go.ke);  
Website: [www.meteo.go.ke](http://www.meteo.go.ke)

©2017 Kenya Meteorological Services