



**KENYA METEOROLOGICAL SERVICE  
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 11, 11<sup>th</sup> – 20<sup>th</sup> APRIL 2016**

**1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities decreased and increased in intensity and in spatial distribution respectively during this dekad. The highest rainfall amount of 165.0 mm was received at Suba station in Nyanza region compared to 217.2 mm reported at Moyale station in North Eastern region in the previous dekad. Coastal region recorded the second highest rainfall amount of 154.2 mm at Mombasa station. Marsabit station in Eastern region reported the highest rainfall amount of 119.4 mm. Central region received the highest rainfall amount of 114.2 mm at Nyeri station. Western region received the highest rainfall amount of 86.0 mm at Kakamega station. Kabarak station in Rift Valley region recorded the highest rainfall amount of 81.7 mm. Nairobi region received the highest rainfall amount of 66.8 mm at Moi Air Base station, while Mandera station in North Eastern region reported the highest rainfall amount of 39.0 mm.

Both Maximum and Minimum temperatures were on a decreasing trend. The highest Maximum temperature of 36.8<sup>o</sup>C was reported at Lodwar Station in North Eastern region compared to 39.0<sup>o</sup>C reported at Mandera station in the same region in the previous dekad. Nyahururu station continued to record the lowest Minimum temperature of 8.7<sup>o</sup>C compared to 10.1<sup>o</sup>C reported at the same station 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.

**2. CROP AND WEATHER REVIEW FOR DEKAD 11, 11<sup>th</sup> – 20<sup>th</sup> APRIL, 2016**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station received rainfall amount of 86.0 mm. The mean air temperature and total Pan Evaporation reported were 22.7<sup>o</sup>C and 34.9 mm respectively. There was no report on sunshine hours.

*Maize and Beans crops are in emergence stage and in good state.*

**2.1.2 Kisii**

The station reported total rainfall amount of 45.5 mm. The mean air temperature and total Pan Evaporation recorded were 21.3<sup>o</sup>C and 29.0 mm respectively. There was no report on Sunshine hours.

*Both maize and beans were at emergence stage and in good state. Most farmers have started weeding.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station recorded total rainfall amount of 68.9 mm. Total Pan Evaporation reported was 68.9 mm. There was no report on mean air temperature and Sunshine duration.

*Maize and beans are at emergence stage and good state.*

### **2.2.2 Eldoret - Kapsoya**

The station received 25.2 mm of rainfall. The mean air temperature and total Pan Evaporation reported were 19.3° and 52.2 mm respectively. There was no report on sunshine hours.

*Maize and beans are both at emergence stage and in good state.*

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

### **2.3.1 Nyeri**

Total rainfall amount recorded was 114.2 mm. The average air temperature reported was 20.1°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize and Beans are at emergence stage and in fair state; however, beans have been affected by some insects.*

### **2.3.2 Kabete**

The station reported rainfall amount of 60.7 mm. The total Pan Evaporation recorded was 40.2 mm. There was no report on Mean air Temperature total Pan Evaporation and Sunshine parameters.

*Both Maize and Beans are at emergence and in good state.*

### **2.3.3 Thika**

The station recorded 91.1mm of rainfall. The average air temperature and total Pan Evaporation recorded were 22.3°C and 38.6mm respectively. There was no report on Sunshine duration.

*Both maize and beans crops were at emergence stage and in good state.*

### **2.3.4 Nyahururu**

The station recorded total rainfall amount of 26.3mm. The mean air temperature and total Pan Evaporation reported were 16.7°C and 46.3mm respectively. There was no report on Sunshine hours.

*Planting is still underway in most farms.*

### **2.3.5 Dagoretti**

The station received 61.4 mm. The total Pan Evaporation reported was 33.9 mm. There was no report on mean air temperature, and Sunshine parameters.

*No Phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station reported 95.8 mm of rainfall. The total Pan Evaporation reported was 45.8 mm. There was no report on Mean air temperature and sunshine parameters.

*Both maize and beans crops were at emergence stage and in good state.*

### **2.4.2 Meru**

The station recorded rainfall amount of 88.1mm. The Average air Temperature and total Pan Evaporation reported were 21.3<sup>0</sup>C and 46.1 mm respectively. There was no report on Sunshine parameters.

*Both maize and beans crops are at emergence stage and in good state. Some farmers are still planting.*

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

The station reported rainfall amount of 6.0 mm. The Mean air Temperature and Pan Evaporation reported were 21.9<sup>0</sup>C and 50.5 mm respectively. There was no report on Sunshine hours.

*Farmers are still planting and some crops are still at emergence stage.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station recorded 13.9 mm of rainfall. The average air temperature and total Pan Evaporation recorded were 29.4<sup>0</sup>C and 63.9mm respectively. There was no report on sunshine duration.

*Farmers have finished planting maize crop. Mangoes were at 100% fruit setting stage and in good state.*

### **2.5.2 Mtwapa**

The station received rainfall amount of 118.5mm. The Mean air temperature and total Pan Evaporation reported were 28.3<sup>0</sup>C and 37.6 mm respectively. There was no report on sunshine parameters.

*Maize is at emergence stage and in good state; Mangoes were at flowering stage and in fair state.*

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

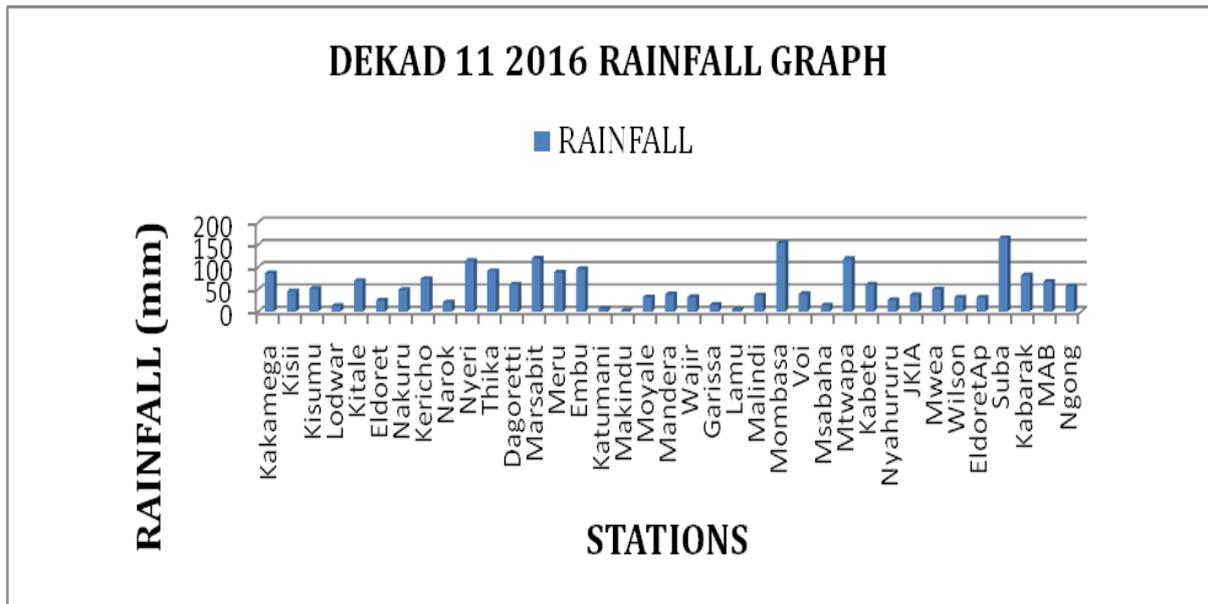


Figure 3.1: Dekadal rainfall totals for dekad 11, 2016

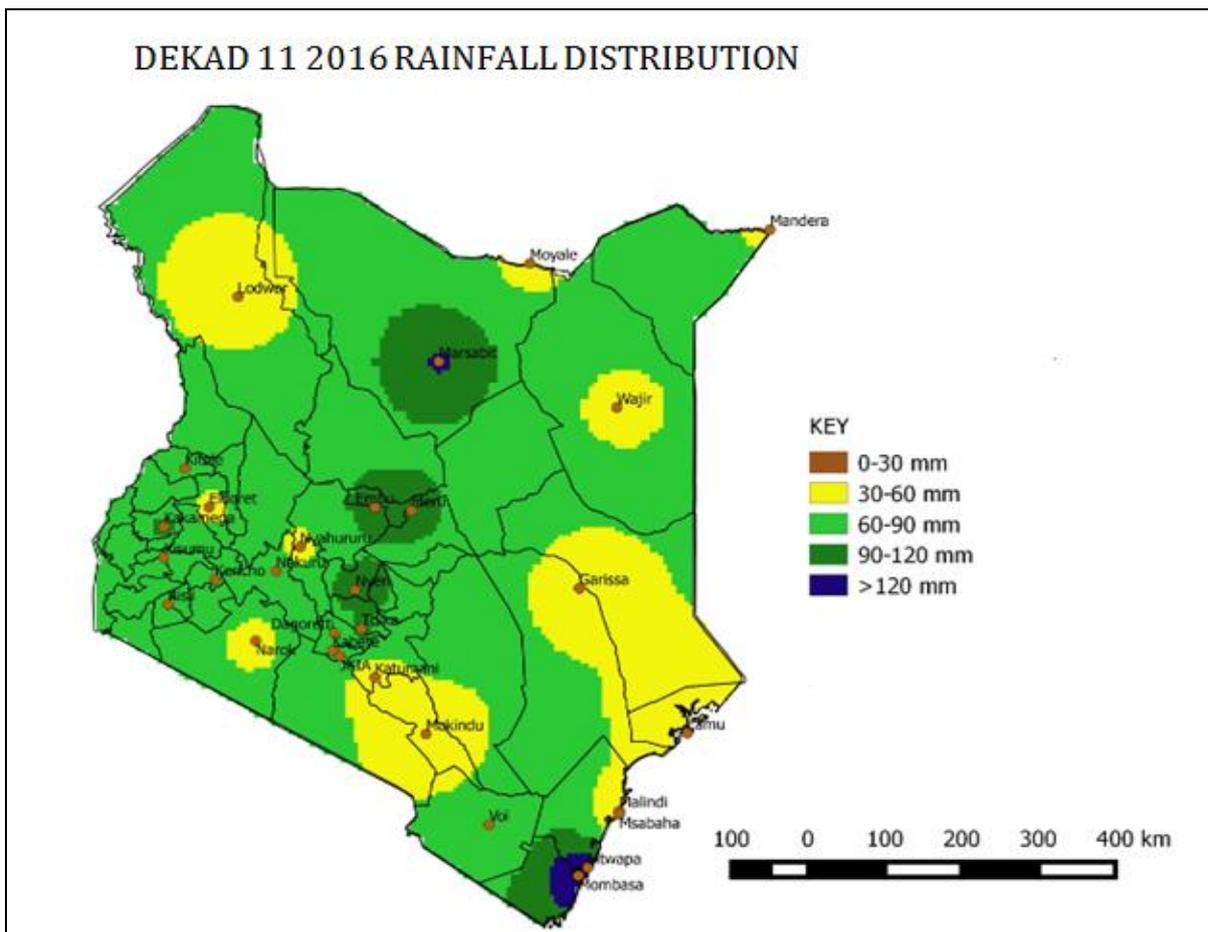


Figure 3.2: Dekadal rainfall distribution for dekad 11, 2016

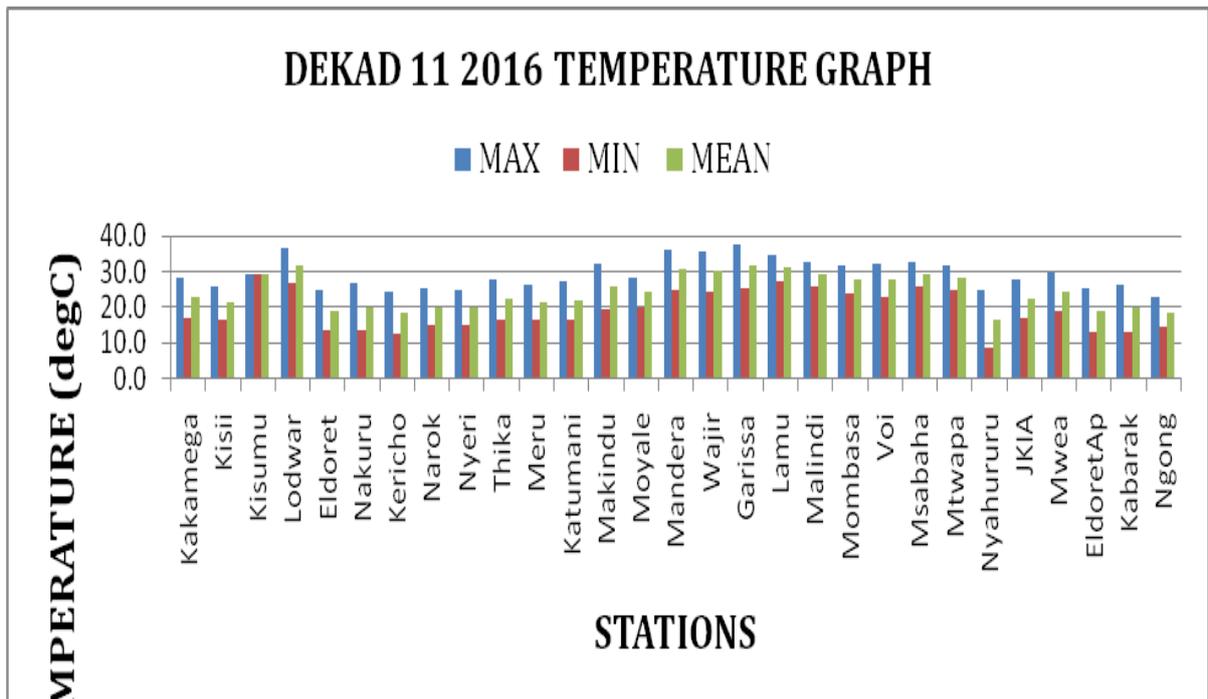


Figure 3.3: Maximum, Minimum and Average temperature for dekad 11, 2016

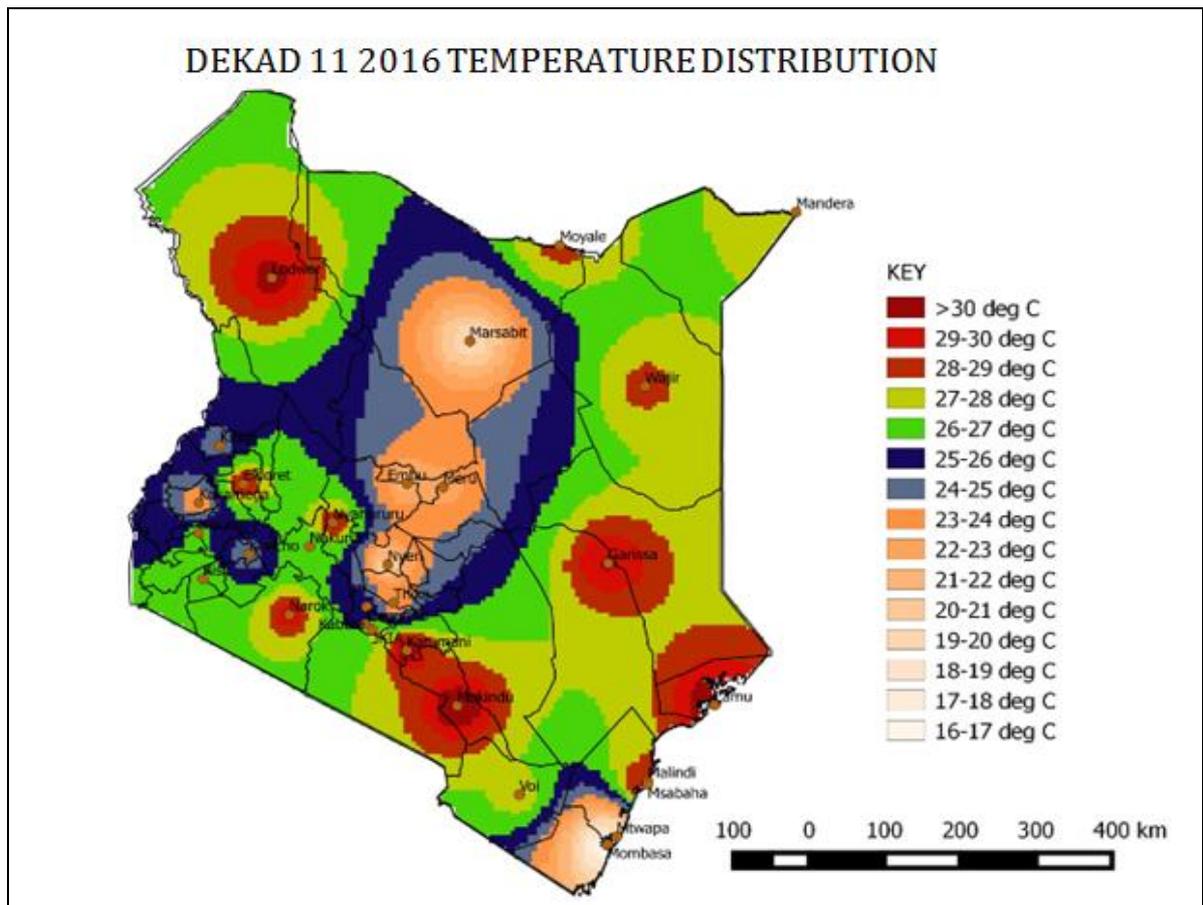


Figure 3.4: Mean temperature distribution for dekad 11, 2016

**3. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;  
21<sup>st</sup> - 30<sup>th</sup> April, 2016.**

- ❖ **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 rains over few places for the first eight days of the forecast period, followed by sunny intervals with occasional rains over few places thereafter. Afternoons/nights are expected to experience showers and thunderstorms over several places during the first half of the forecast period, reducing to few places thereafter.

*The Showers and sunny intervals will be beneficial to the growth of the crops that are at emergence stage in places like Kisii and Kakamega.*

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu)**, Mornings are expected to experience mainly sunny intervals throughout the forecast period. Afternoons/nights are expected to experience showers and thunderstorms over few places at the beginning of the forecast period, followed by sunny intervals thereafter.

*The showers continue to replenish pasture and vegetation for livestock kept in this region.*

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga)**, Mornings are expected to be cloudy with occasional rains over few places. Afternoons/Nights are expected to experience showers over few places for the entire forecast period.

*The rains and showers will be of great benefit to the crops, which are in their germinating stage in places like Thika, Nyeri, Meru etc.*

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo)**, Mornings are expected to experience rains over few places throughout the forecast period. Afternoons/nights are expected to experience mainly sunny intervals throughout the forecast period.

*The expected rains will continue replenishing the pasture and vegetation for the animals kept in these areas.*

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)**, Mornings are expected to experience cloudy mornings with occasional rains over few places for the entire forecast period. Afternoons/Night are expected to experience showers over few places for the entire forecast period.

*The Showers will continue to replenish 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 showers over few places for the entire forecast period. Afternoons are expected to experience mainly sunny intervals except on the sixth day of the forecast period where showers over few places are likely to occur.

*The showers will be beneficial to crops being planted and those in emergence stage in places like Msabaha and Mtwapa respectively. The rains will also benefit the mangoes, which are at 100% fruit setting and in flowering stages in Msabaha and Mtwapa respectively.*

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

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