



**KENYA METEOROLOGICAL DEPARTMENT  
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 13, 1<sup>st</sup> – 10<sup>th</sup> MAY 2016**

**1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities decreased in intensity but increased slightly in spatial distribution. Coastal region recorded the highest rainfall amount of 190.4mm at Lamu station compared to 294.9mm received at Marsabit station in Eastern region in the previous dekad. The second highest rainfall of 164.8mm was reported at Kisumu station in Nyanza region. Nairobi region recorded the highest rainfall amount of 157.1mm at Kabete station. Eldoret Airport station in Rift Valley region received the highest rainfall amount of 129.4mm. Eastern region reported the highest rainfall amount of 96.9mm at Mwea station. Kakamega station in the Western region received the highest rainfall amount of 87.0mm. Central region recorded the highest rainfall amount of 61.7mm at Nyahururu station, while North Eastern region reported the highest rainfall amount of 55.7mm at Moyale station.

Both Maximum and Minimum temperatures were on decreasing trend. The highest Maximum temperature of 34.8<sup>o</sup>C was recorded at Garissa Station in North Eastern region compared to 36.5<sup>o</sup>C at the same station in the previous dekad. Nyahururu station continued to record the lowest Minimum temperature of 9.5<sup>o</sup>C compared to 10.9<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 13, 1<sup>st</sup> – 10<sup>th</sup> MAY 2016**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station received rainfall amount of 87.0mm. The mean air temperature and Total pan Evaporation were 21.7<sup>o</sup>C and 32.5mm respectively. There was no report on and sunshine hours.

*Beans and Maize are in flowering and emergence stages respectively and in good state.*

**2.1.2 Kisii**

The station reported total rainfall amount of 111.9mm. The mean air temperature and total Pan Evaporation recorded were 20.9<sup>o</sup>C and 30.4mm respectively. There was no report on Sunshine hours.

*Beans were in flowering stage and in fair state, while maize were at emergence stage and in good state.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station recorded total rainfall amount of 86.4mm. Total Pan Evaporation reported was 28.4mm. There was no report on the mean air temperature, and Sunshine duration.

*Maize and Beans were at emergence state and in good state.*

### **2.2.2 Eldoret - Kapsoya**

The station received 100mm of rainfall. The mean air temperature and Total Pan Evaporation reported were 18.0°C and 21.4mm respectively. There was no report on sunshine hours.

*Maize and beans were at emergence and flowering stages and in good state.*

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

### **2.3.1 Nyeri**

Total rainfall amount recorded was 42.3mm. The average air temperature reported was 20.1°C. There was no report on Total Pan Evaporation and sunshine parameters.

*Maize and Beans were at emergence and flowering stages respectively and in fair state*

### **2.3.2 Kabete**

The station reported rainfall amount of 157.1mm. The total Pan Evaporation recorded was 47.6mm. There was no report on Mean air Temperature and Sunshine parameters.

*Both Maize and Beans are at emergence stage and in fair state.*

### **2.3.3 Thika**

The station recorded 19.9mm of rainfall. The average air temperature and Total Pan Evaporation recorded were 19.8°C and 52.4mm respectively. There was no report on Sunshine duration.

*Maize and beans crops were at emergence and flowering stages, and in fair and poor states respectively due to excessive rainfall. Potatoes also are at flowering state and in poor state.*

### **2.3.4 Nyahururu**

The station recorded total rainfall amount of 61.7mm the mean air temperature and Total Pan Evaporation reported were 17.0°C and 44.5mm respectively. There was no report on Sunshine hours.

*Maize and beans were at emergence stage and in fair state. Potatoes too were at emergence stage and in fair state.*

### **2.3.5 Dagoretti**

The station received 117.4mm of rainfall. Total Pan Evaporation recorded was 28.4mm. No report on mean air temperature and Sunshine parameters.

*No Phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station reported 17.4mm rainfall. There was no report on the Mean air temperature, total Pan Evaporation, and sunshine parameters.

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

### **2.4.2 Meru**

The station recorded total rainfall amount of 35.2mm. The Average air Temperature reported was 20.0°C. There was no report on Total Pan Evaporation and Sunshine parameters.

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

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

The station reported total rainfall amount of 30.0mm. Total Pan Evaporation reported was 31.2mm. There was no report on the Mean air Temperature and Sunshine hours.

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

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station recorded 87.2mm of rainfall. The average air temperature and Total Pan Evaporation recorded were 27.8°C and 33.7mm respectively. There was no report on sunshine duration.

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

### **2.5.2 Mtwapa**

The station received total rainfall amount of 103.4mm. The Mean air temperature and Total Pan Evaporation reported were 27.3°C and 24.7mm respectively. There was no report on sunshine parameters.

*Maize were at emergence stage and in good state, while Mangoes were at flowering stage and in fair state.*

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

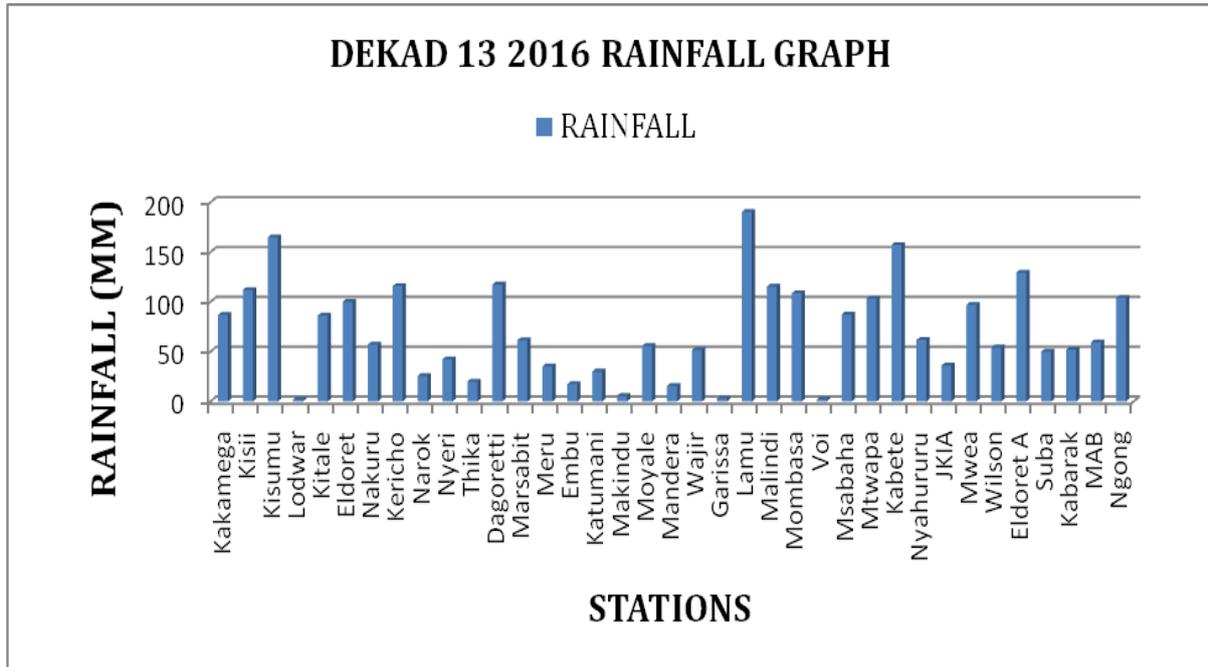


Figure 3.1: Dekadal rainfall totals for dekad 13, 2016

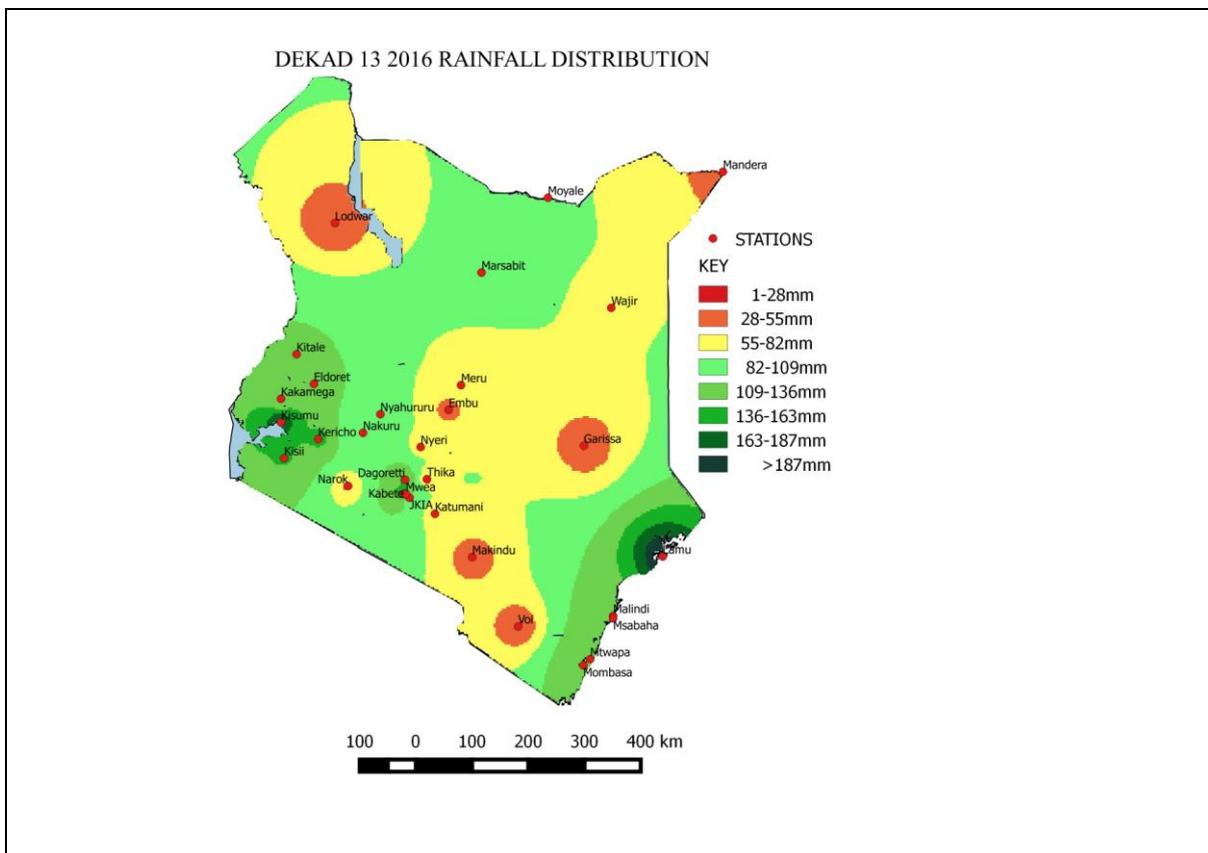
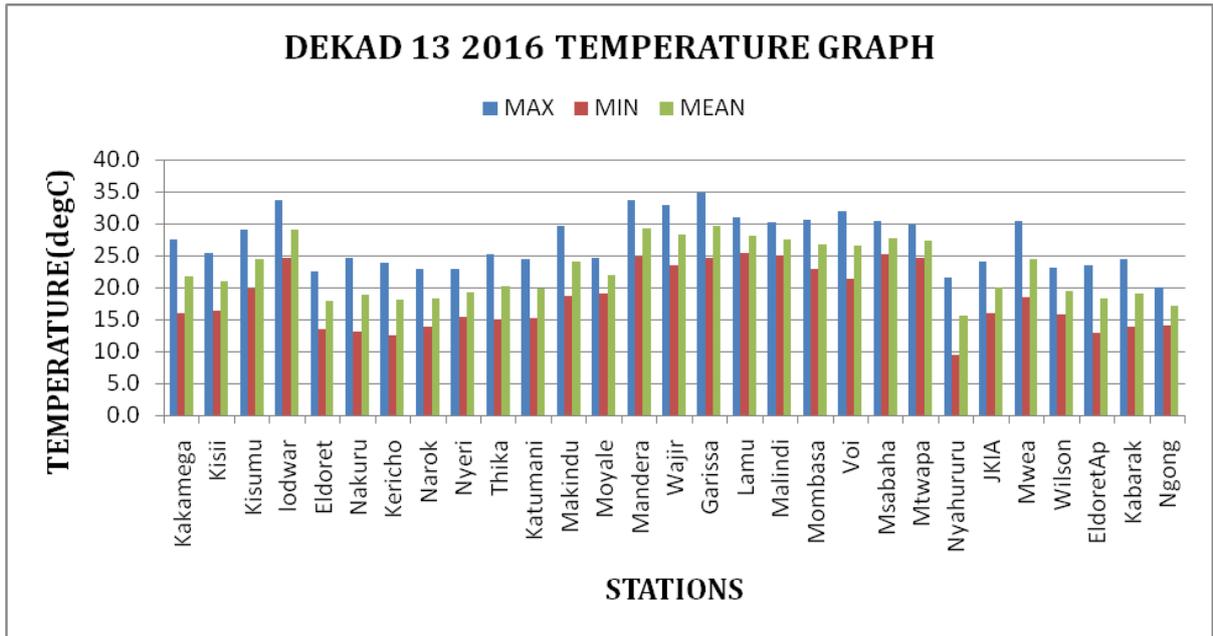
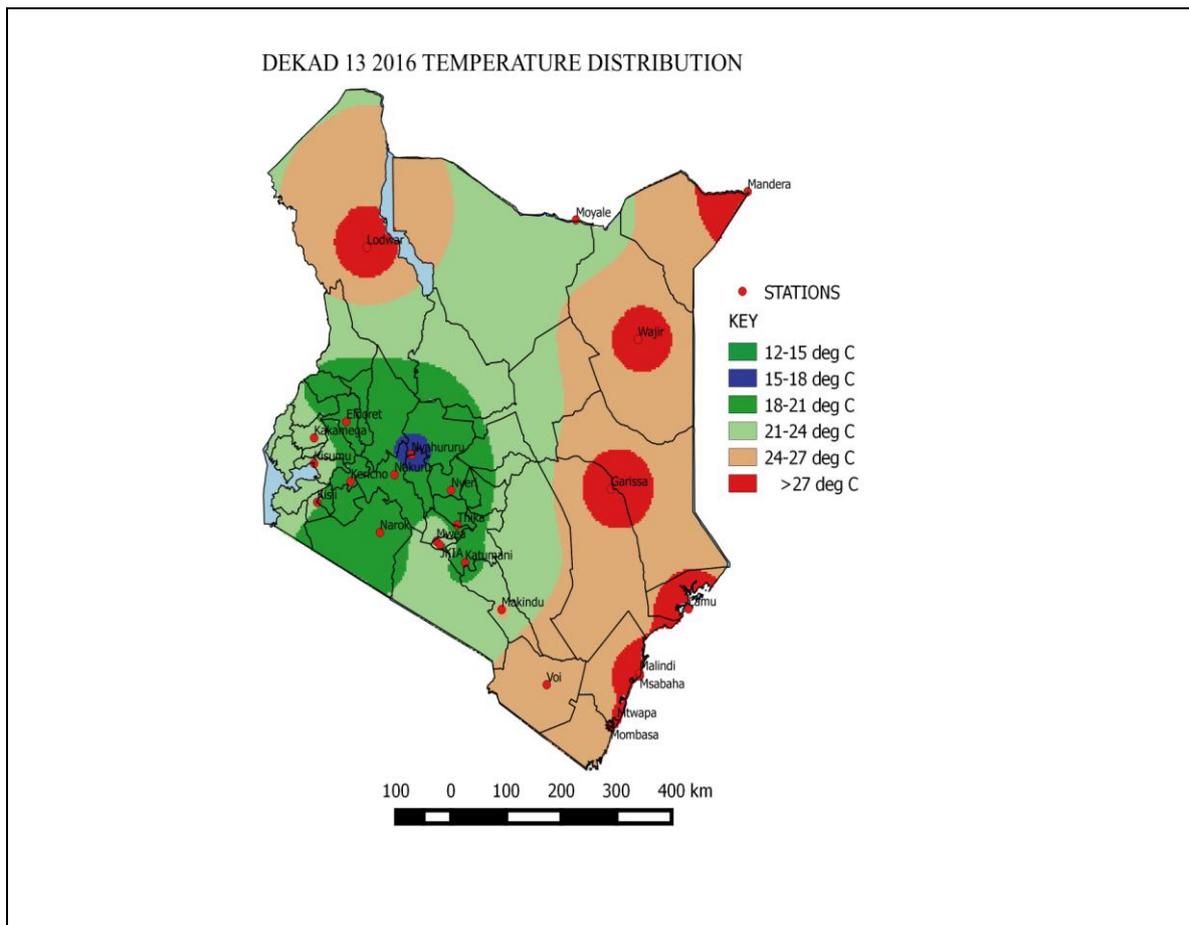


Figure 3.2: Dekadal rainfall distribution for dekad 13, 2016



**Figure3.3: Maximum, Minimum and Average temperature for dekad 13, 2016**



**Figure 3.4: Mean temperature distribution for dekad 13, 2016**

### 3. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11<sup>th</sup> - 20<sup>th</sup> MAY, 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 four days of the forecast period followed by sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over several places for the first six days of the forecast period reducing to few places thereafter.

*The Showers will be beneficial to the growth of the crops that are at emergence and flowering stages in places like Kisii, Kakamega and Kitale.*

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu)**, Mornings are expected to experience rains over few places for the first three days of the forecast period, followed by sunny intervals thereafter. Afternoons/Evenings are expected to experience showers and thunderstorms over few places throughout the forecast period.

*The showers will continue to replenish the 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 rains breaking into sunny intervals for the first five days, followed by sunny intervals thereafter. Afternoons/Night are expected to experience showers over few places throughout the forecast period.

*The rains and showers will continue benefiting the crops, which are in their germinating and flowering stages in places like Thika, Meru, Embu and Nyahururu.*

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo)**, are expected to experience sunny intervals the whole day throughout the forecast period.

*The sunny intervals will have a negative impact to 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 sunny intervals throughout the forecast period. Afternoons/Night are expected to experience sunny intervals on the first two days, followed by showers over few places for the next four days, then sunny intervals thereafter.

*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 first two days, followed by sunny intervals thereafter. Afternoons/Evenings are expected to experience mainly sunny intervals throughout the forecast period.

*The showers will benefit the mangoes, which are at 100% fruit setting and flowering stages in Msabaha and Mtwapa respectively.*

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