



# KENYA METEOROLOGICAL DEPARTMENT

## DEKADAL AGROMETEOROLOGICAL

### WEATHER AND CROP REVIEW FOR DEKAD 11; 11<sup>TH</sup> –20<sup>TH</sup> APRIL, 2017

#### HIGHLIGHTS ON RAINFALL AND TEMPERATURE

Rainfall activities drastically increased both in intensity and spatial distribution during the dekad. Kitui station in Eastern region recorded the highest rainfall amount of 314.0mm compared to 104.8mm reported at Katumani station in the same region in the last dekad. Suba station in Nyanza region received the highest rainfall amount of 140.7mm. Western region reported the highest rainfall amount of 119.9mm at Matungu station. Kabete station in Nairobi region received the highest rainfall amount of 82.9mm. Coastal region recorded the highest rainfall amount of 81.2mm at Mtwapa station. Rift Valley region recorded the highest amount of rainfall of 70.7mm at Kericho station. North Eastern region at Garissa station received the highest rainfall amount of 34.8mm; while Central region reported the highest rainfall amount of 29.4mm at Embu station.

Maximum temperatures continued to decrease while minimum temperatures increased drastically. Mandera station in North Eastern region reported the highest maximum temperature of 37.2°C compared to 38.0°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 7.8°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.

#### CROP AND WEATHER REVIEW FOR DEKAD 11, 11<sup>th</sup> – 20<sup>th</sup> APRIL, 2017

##### 2.1 NYANZA AND WESTERN REGIONS

###### 2.1.1 Kakamega

Total rainfall amount recorded was 44.5mm. The mean air temperature reported was 23.4°C. There was no report on total pan evaporation and sunshine parameters.

*Maize and Beans are in emergence stage and flowering stages respectively. Both crops are in fair state although army worms have affected maize.*

###### 2.1.2 Kisii

The station recorded total rainfall amount of 122.8mm. The mean air temperature reported was 21.7°C. Sunshine hours recorded were 7.2hr/day. There was no report on total pan evaporation.

*Maize and beans are both in flowering and in good state; hence expected yield is normal. Most farmers are still weeding their crops.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station recorded total rainfall amount of 45.4mm. The mean air temperature and total Pan Evaporation reported were 21.7°C and 48.4mm respectively. There was no report on sunshine parameter.

*Maize and Beans are still at emergence stage and in good state. Some farmers are still planting.*

### **2.2.2 Eldoret - Kapsoya**

The station reported total rainfall amount of 34.5mm. The mean air temperature and total Pan Evaporation were 20.0°C and 71mm respectively. Sunshine hours recorded were 8.7hr/day.

*Beans and maize are in emergence stage and in fair state. Some farmers are still planting.*

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

### **2.3.1 Nyeri**

Total amount of rainfall recorded was 1.7mm. The mean air temperature reported was 20.4°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize and beans are in emergence stage and in fair state. Some farmers are still planting.*

### **2.3.2 Kabete**

The station received 82.9mm of rainfall. The mean air temperature reported was 15.4°C. Sunshine hours recorded was 7.5hr/day. There was no report on total Pan Evaporation.

*Maize and beans are in emergence stage and in fair state. Some farmers are still planting.*

### **2.3.3 Nyahururu**

The station recorded 7.2mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 16.7 °C and 56.8mm respectively. Sunshine hours recorded was 7.7hr/day.

*Maize and beans are in emergence stage and in fair state. Some farmers are still planting.*

### **2.3.4 Dagoretti**

The station reported total rainfall amount of 58.0mm. Total Pan Evaporation was 46.2mm. Sunshine hours recorded was 8.1hr/day. There was no report on Mean air temperature.

*No Phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station recorded 29.4mm of rainfall. Total Pan Evaporation reported was 48.2mm. There was no report on mean air temperature and sunshine parameters.

*Maize and beans are in emergence stage and in fair state.*

### **2.4.2 Meru**

The station received 21.1mm of rainfall. Mean Air Temperature reported was 20.2°C. There was no report on Pan Evaporation and sunshine.

*Maize and beans are in emergence stage and in fair state. Some farmers are still planting.*

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

The station recorded 128.0mm of rainfall. The mean air temperature reported was 20.5°C. Sunshine hours recorded was 9.4hr/day. There was no report on Pan Evaporation.

*Maize and Beans are at emergence stage and in fair state. Some farmers have started weeding.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

Total amount of rainfall received was 18.5mm. Total Pan Evaporation reported was 55.5mm. There was no report on mean air Temperature and sunshine hours.

*Maize and Beans are at emergence stage and in fair state. Some farmers are still planting their crops.*

### **2.5.2 Mtwapa**

The station recorded total rainfall amount of 81.2mm. The Mean air temperature recorded was 28.6°C. There was no report on mean air Temperature and sunshine hours.

*Maize and Beans are at emergence stage and in fair state. Some farmers are still planting their crops. Mangoes were at flowering stage and in fair state.*

## ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS

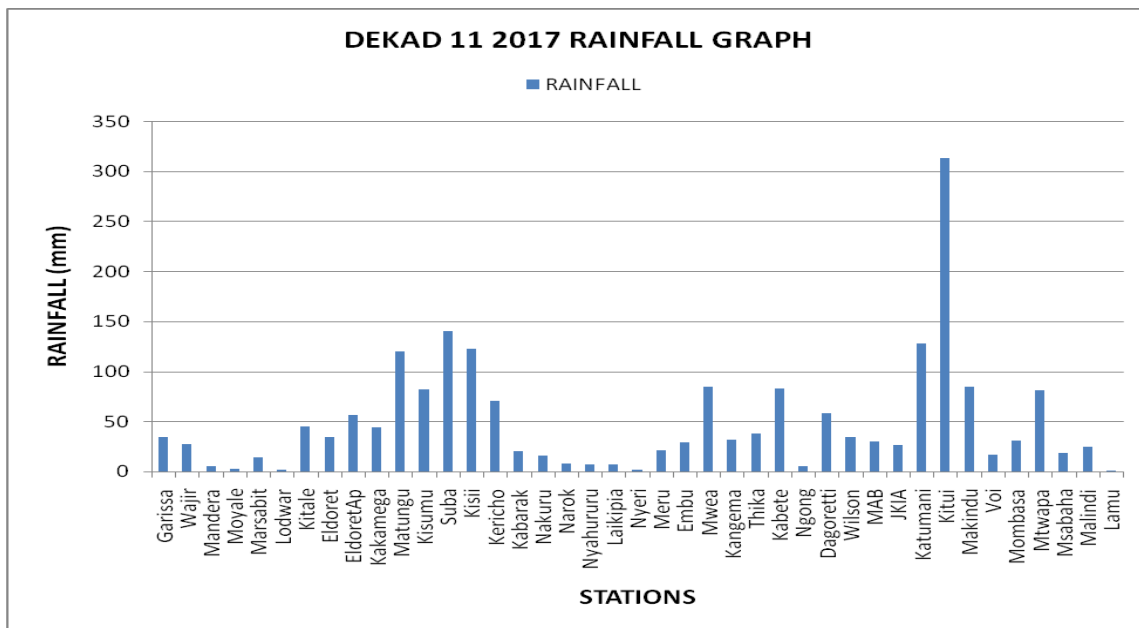


Figure 3.1: Dekadal rainfall totals for dekad 11, 2017

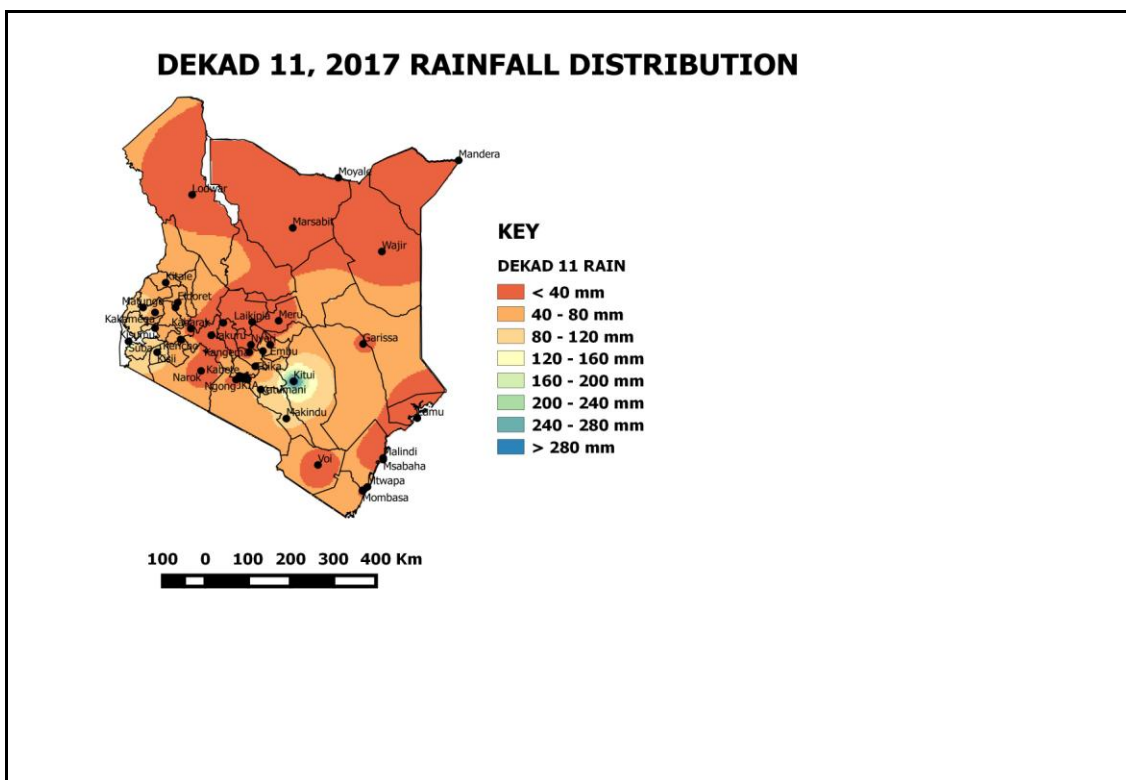


Figure 3.2: Dekadal rainfall distribution for dekad 11, 2017

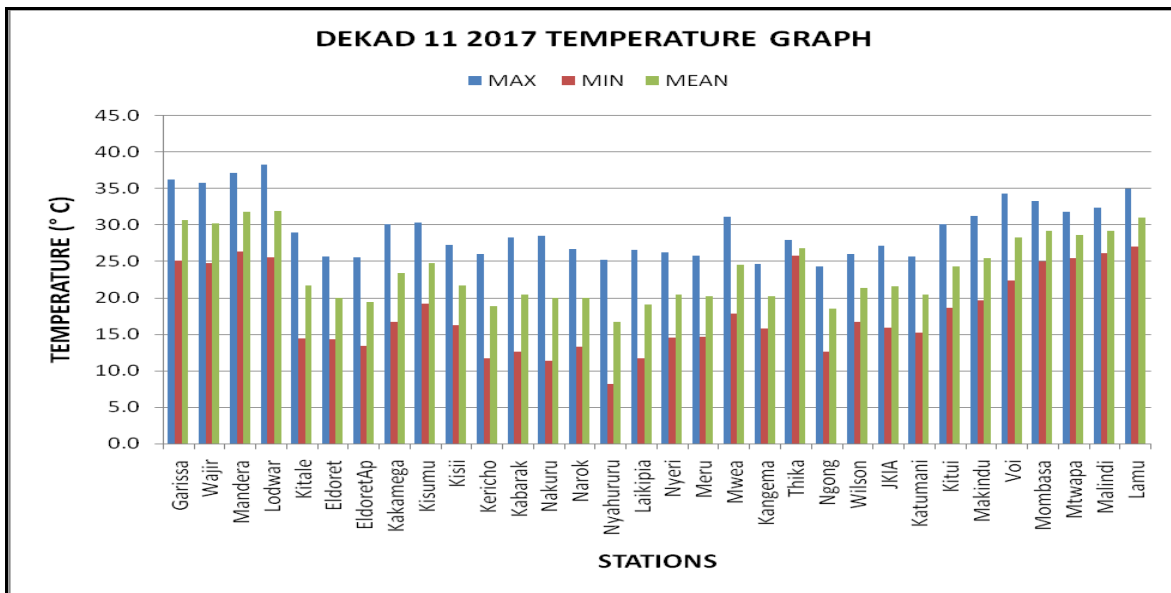


Figure3.3: Maximum, Minimum and Average temperature for dekad 11, 2017

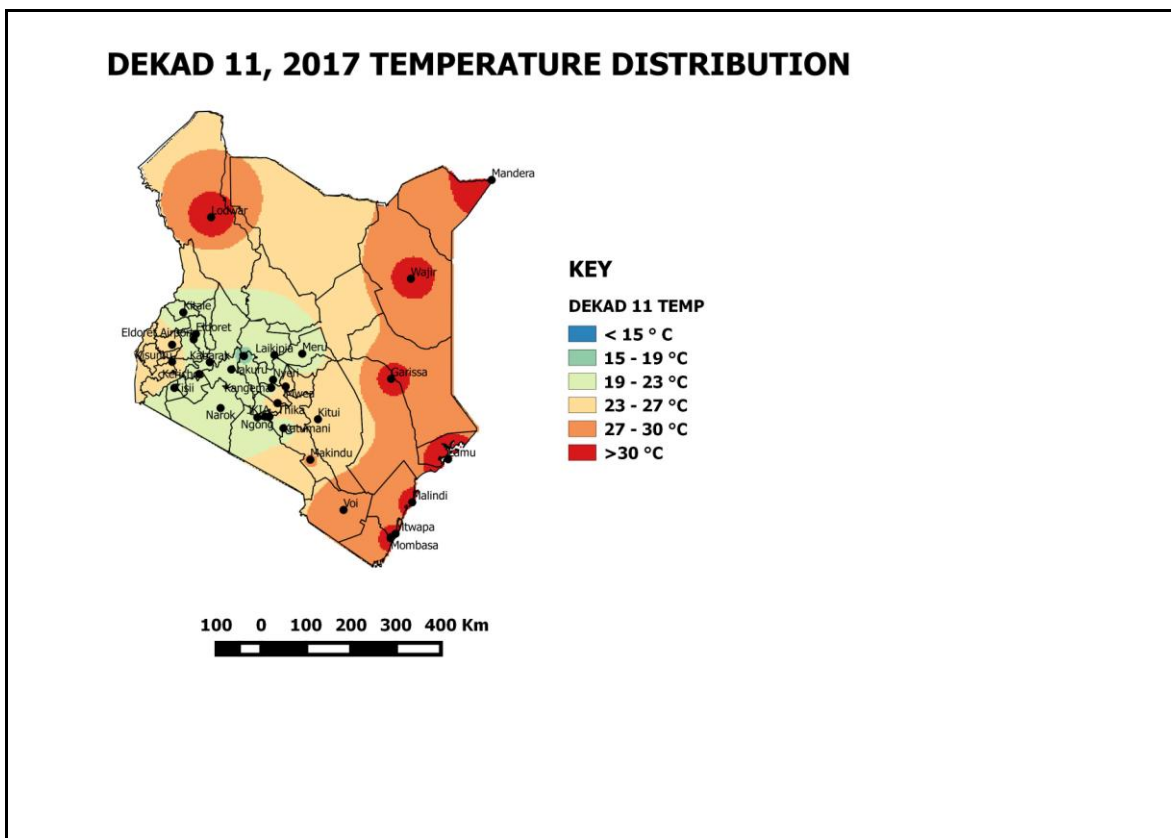


Figure 3.4: Mean temperature distribution for dekad 11, 2017

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21st \_ 30th 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 sunny intervals in the mornings except on the 3<sup>rd</sup>, 5<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> days when we will experience rains over few places. Afternoons are expected to experience showers and thunderstorms over few places on the 2<sup>nd</sup> to the 8<sup>th</sup> day of the forecast period increasing to several places thereafter.

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

**The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals the entire day on the first eight days of the forecast period. The 9<sup>th</sup> and the 10<sup>th</sup> days are expected to experience morning rains over few places and showers and thunderstorms over few places in the afternoon.

*The expected rains and showers will benefit 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),** mornings are expected to experience sunny intervals except on the 3<sup>rd</sup>, and the 5<sup>th</sup> day of the forecast period which are expected to experience rains over few places. Afternoons are expected to experience showers over few places except on the 6<sup>th</sup> and 7<sup>th</sup> days of the forecast period, which are expected to experience sunny intervals. The 8<sup>th</sup> to the 10<sup>th</sup> day of the forecast period are expected to experience heavy rains in the morning and showers in the afternoon over several places.

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

**Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience morning rains over few places except on the 6<sup>th</sup> to the 8<sup>th</sup> day of the forecast period which are expected to experience sunny intervals the entire day. Afternoons are expected to experience showers over few places on the 2<sup>nd</sup> to 5<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> days of the forecast period.

*The expected rains and showers 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 entire forecast period. Afternoons are expected to experience sunny intervals except from the 8<sup>th</sup> to the 10<sup>th</sup> day of the forecast period which are expected to experience showers over few places.

*The 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 rains over few places from the 5<sup>th</sup> to the 8<sup>th</sup> day increasing to several places on the 9<sup>th</sup> and 10<sup>th</sup> days of the forecast period. Afternoons are expected to experience sunny intervals except from the 5<sup>th</sup> to the 10<sup>th</sup> day of the forecast period which are expected to experience showers over few places.

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

For feedback or further guidance, Contact:

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