



**KENYA METEOROLOGICAL SERVICE  
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 30, 21-31 OCTOBER, 2015**

**1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities countrywide remained on an increasing trend in both intensity and spatial distribution. The highest rainfall amount countrywide was 169.0 mm received at Kisii station in Nyanza region compared to 123.9 mm recorded in Embu station in Eastern region in the previous dekad. Kakamega station in the Western region, received the highest rainfall amount of 132.5 mm. In the Rift Valley region, Kericho station continued to receive the highest total rainfall amount of 118.9 mm. In the Eastern region Embu station reported the highest rainfall amount of 113.4 mm. Moi Air Base station in Nairobi region received the highest rainfall amount of 85.0 mm. In Central region, Thika station recorded the highest rainfall amount of 72.4 mm. In North Eastern region Mandera station continued to report the highest total rainfall amount of 59.5mm. The highest rainfall received in the Coastal region was 53.2 mm at Lamu station.

Maximum and minimum temperatures were still on decreasing and increasing trend respectively. Lodwar station in North-Eastern region continued to report the highest maximum temperature of 36.8°C compared to 37.2°C reported in the previous dekad. Nyahururu station in Central region continued to report the lowest minimum temperature of 9.5°C compared to 7.4°C reported 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 30: 21-31 OCTOBER, 2015**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station reported rainfall amount of 132.5 mm during the dekad. The mean air temperature was 21.4°C. There was no report on Pan Evaporation and sunshine parameters.

*Maize and Beans were at emergence and flowering stages respectively. Both crops were in fair state hence normal yield expected for beans.*

**2.1.2 Kisii**

The station reported total rainfall amount of 169.0 mm. The mean air temperature was 20.5°C. There was no report on Pan Evaporation and sunshine parameters.

*Maize and beans were at emergence and flowering stages respectively. Both crops are in fair state; though beans had been adversely affected by black aphids.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station received total rainfall amount of 118.5 mm. The mean air temperature and total Pan Evaporation recorded were 20.2°C and 36.5 mm respectively. There was no report on sunshine duration.

*Maize harvest is complete.*

### **2.2.2 Eldoret - Kapsoya**

The station received rainfall amount of 76.2 mm. The mean air temperature and total Pan Evaporation recorded were 19.0°C and 58.2 mm respectively. There was no report on sunshine parameter.

*No phenological report.*

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

### **2.3.1 Nyeri**

The station recorded total rainfall amount of 17.7 mm. The average air temperature was 19.7°C. There was no report on total Pan Evaporation and sunshine parameters.

*Both maize and Beans were at emergence stage and in fair state; though beans had been adversely affected by insects. Weeding is in progress.*

### **2.3.2 Kabete**

The station received rainfall amount of 80.0 mm. The total Pan Evaporation reported was 43.5mm. There was no report on Mean air Temperature and sunshine parameters.

*Both maize and beans were at emergence stage and in fair state; planting is still underway.*

### **2.3.3 Thika**

The station reported total rainfall amount of 72.4 mm. The mean air temperature and total Pan Evaporation recorded were 21.2°C and 52.4 mm respectively. There was no report on sunshine duration.

*Maize, beans and potatoes were all at emergence stage and in good state.*

### **2.3.4 Nyahururu**

The station recorded total rainfall amount of 47.1 mm. The mean air temperature and total Pan Evaporation recorded were 15.9°C and 39.0 mm respectively. There was no report on sunshine parameter.

*Maize was at maturity stage and in poor state. Below normal yield expected.*

### **2.3.5 Dagoretti**

The station recorded rainfall amount of 58.7 mm. The Mean air Temperature was 19.9°C. There was no report on Pan Evaporation and sunshine parameters.

*No Phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station reported total rainfall amount of 113.4mm. There was no report on Mean air temperature, pan and sunshine parameters.

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

### **2.4.2 Meru**

The station received total rainfall amount of 31.5mm. The Mean air Temperature and total Pan Evaporation reported were 20.4°C and 51.0mm respectively. There was no report on sunshine parameter.

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

### **2.4.3 Katamani (Machakos)**

The station reported total rainfall amount of 1.6mm. The Mean air Temperature and Pan Evaporation recorded were 21.6°C and 61.1mm respectively. Sunshine duration was 6.2 hours/day.

*No Phenological report.*

## **2.5. COASTAL REGION**

### **2.5.1 Msabaha**

The station recorded rainfall amount of 6.9mm. The average air temperature and total Pan Evaporation recorded were 28.2°C and 65.4mm respectively. There was no report on sunshine hours.

*Mangoes were at 50% fruit setting stages and in good state. Farmers are still preparing their farms awaiting the short rains.*

### **2.5.2 Mtwapa**

The station recorded rainfall amount of 2.1mm. The average air temperature and total Pan Evaporation reported were 28.0°C and 66.5 mm respectively. There was no report on Sunshine parameter.

*Most farmers had finished harvesting their maize crop.*

### 3. ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

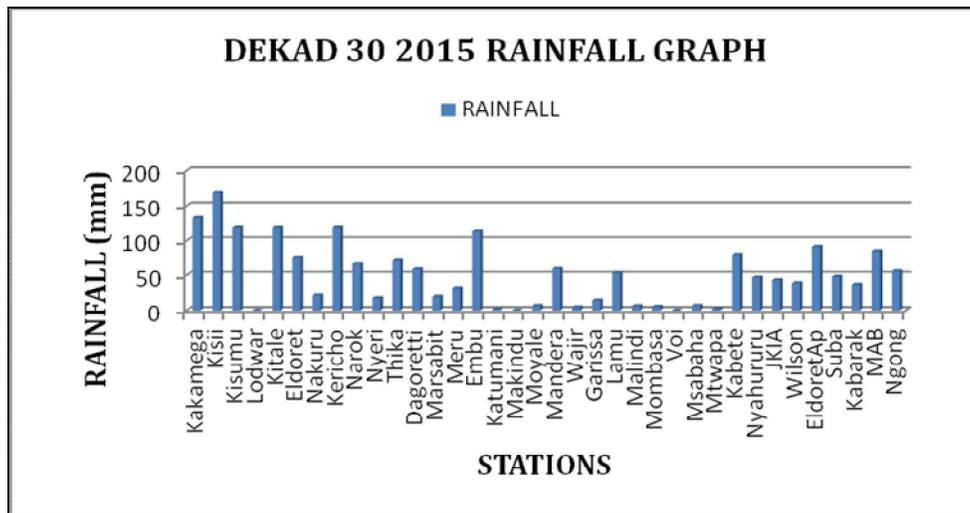


Figure 3.1: Dekadal rainfall totals for dekad 30, 2015

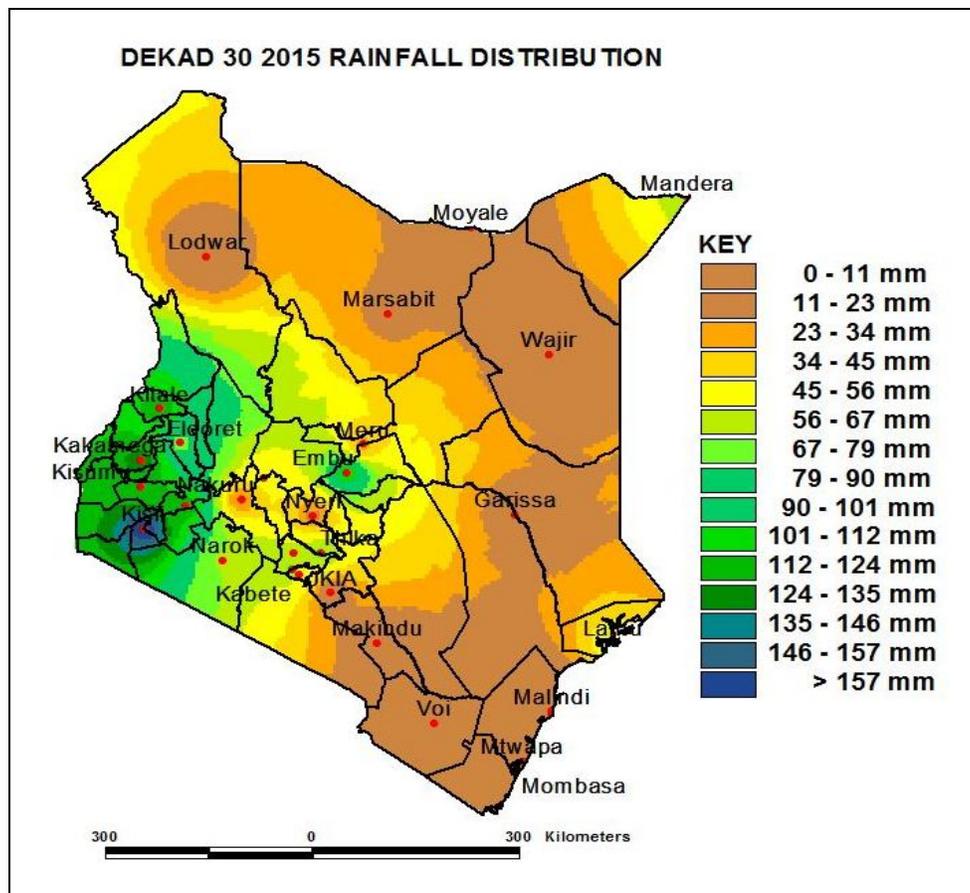


Figure 3.2: Dekadal rainfall distribution for dekad 30, 2015

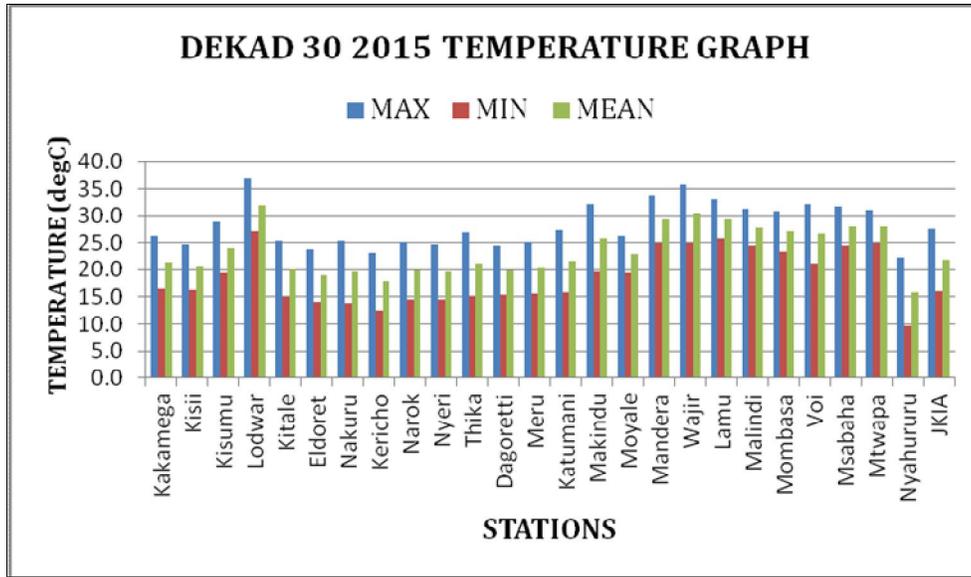


Figure 3.3: Maximum, Minimum and Average temperature for dekad 30, 2015

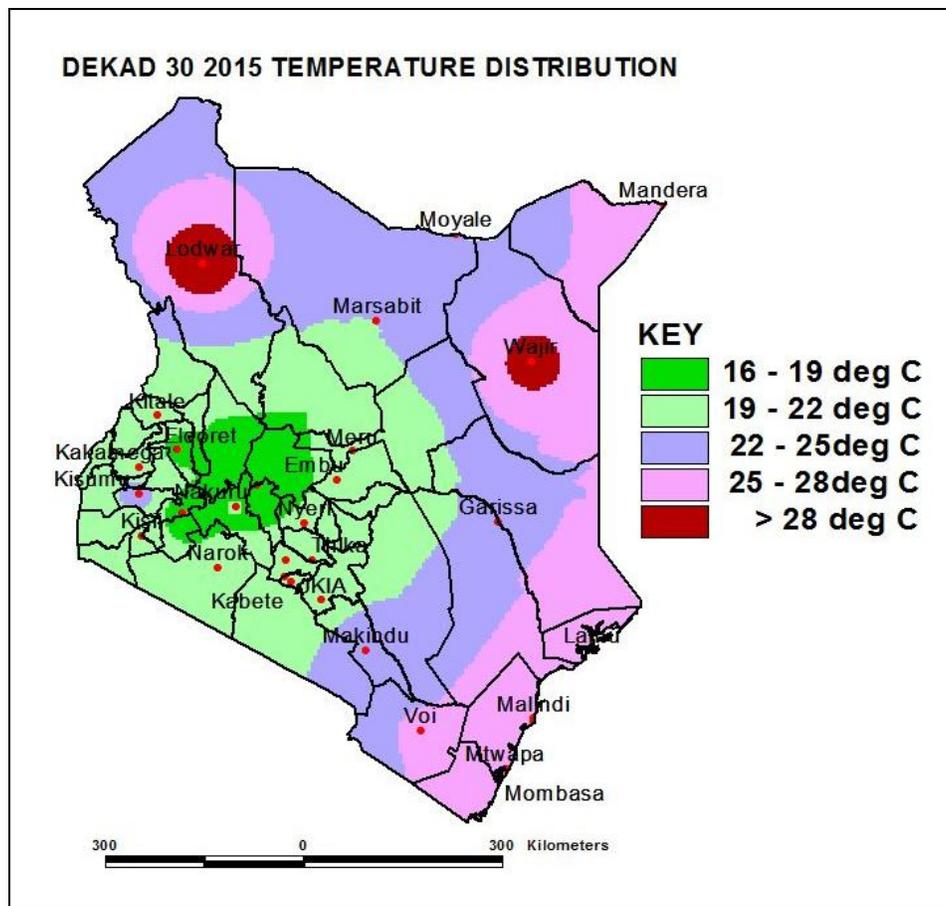


Figure 3.4: Mean temperature distribution for dekad 30, 2015

#### 4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1-10 NOVEMBER, 2015.

- ❖ **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 receive morning rains over several places reducing to few places on the third and fourth day, breaking sunny intervals thereafter. Afternoon showers and thunderstorms over several places are expected throughout the forecast period, with a reduction in intensity from the sixth day.

*The rains and the showers will favor the crops that are in emergence and flowering stages in places like Kisii and Kakamega respectively. The showers will also replenish the soil with moisture for the growth of pasture and vegetation for animals kept in this region.*

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to receive morning rains over several places reducing to few places on the third and fourth day, breaking into sunny intervals thereafter. Afternoons are expected to experience showers and thunderstorms over few places for the first four days, breaking into sunny intervals for the rest of the forecast period.

*The rains and showers will benefit the growth of 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),** are expected to experience morning rains over few places for the first four days of the forecast period, breaking into sunny intervals thereafter. Afternoons are expected to experience showers over several places for the first four days of the forecast period, reducing to few places thereafter.

*The rains and showers will be of advantage to the growth of maize, beans and potatoes in these regions.*

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience morning rains over several places for the first six days, reducing to few places thereafter. Afternoon showers over few places are expected throughout the forecast period except on the sixth and seventh day where sunny intervals will be experienced.

*The rains and showers will be beneficial to the growth of pasture and vegetation for the animals kept in these places.*

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** Mornings are expected to experience sunny intervals the entire forecast period except on the first and the fourth days. Afternoons are expected to experience showers over few places for the first four days, followed by sunny intervals thereafter.

*The rains and showers will benefit the growth of pasture and vegetation for livestock in these areas.*

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** Mornings are expected to experience showers over few places throughout the forecast period. Afternoons are expected to experience sunny intervals for the entire forecast period except the first day, which is expected to receive showers over few places.

*The showers will advantage the growth of mangoes, which are at fruit setting stage in places like Msabaha, and also enable planting for the next season.*

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

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