



**KENYA METEOROLOGICAL SERVICE  
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 29, 11-20 OCTOBER, 2015**

**1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities countrywide continued to increase in both intensity and spatial distribution. Embu station in the Eastern region received the highest rainfall amount of 123.9mm countrywide. In Central region, Thika station reported the highest rainfall amount of 120.3mm. The highest rainfall amount received in the Coastal region was 87.9mm at Mombasa station. Kisii station in Nyanza region reported the highest rainfall amount of 64.9mm. In the Rift Valley region, Kericho station continued to report the highest total rainfall amount of 62.9mm. Kakamega station in the Western region, recorded the highest rainfall amount of 43.3mm. Mandera station in North Eastern region received the highest total rainfall amount of 43.0mm while Kabete station in Nairobi region reported the highest rainfall amount of 37.4mm.

Maximum temperatures were on a decreasing trend while Minimum temperatures were on an increasing trend compared to the previous dekad. 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 29: 11-20 OCTOBER, 2015**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega.**

The station received rainfall amount of 43.3mm during the dekad. The mean air temperature and Pan Evaporation recorded were 22.3°C and 38.3mm respectively. There was no report on sunshine parameters.

*Maize was at Emergence stage while Beans were at flowering stage and both in fair state.*

**2.1.1 Kisii.**

The station recorded total rainfall amount of 64.9mm. The mean air temperature and total Pan Evaporation reported were 21.1°C and 35.2mm respectively. There was no report on sunshine parameter.

*Both maize and Beans were still at emergence stage and in fair state though beans had been adversely affected by bean fly.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station received total rainfall amount of 13.9mm. The mean air temperature and total Pan Evaporation recorded were 20.6°C and 36.9mm respectively. There was no report on sunshine duration.

*Most farmers have completed harvesting their maize crop.*

### **2.2.2 Eldoret - Kapsoya**

The station reported rainfall amount of 32.9mm. The mean air temperature and total Pan Evaporation recorded were 19.2°C and 57.9mm 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 64.2mm. The average air temperature was 19.5°C. There was no report on total Pan Evaporation and sunshine parameters.

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

### **2.3.2 Kabete**

The station reported rainfall amount of 37.4mm. The total Pan Evaporation reported was 47.9mm. There was no report on Mean air Temperature and sunshine parameters.

*Planting of crops going on*

### **2.3.3 Thika**

The station reported total rainfall amount of 120.3mm. The mean air temperature and total Pan Evaporation recorded were 21.5°C and 46.8mm respectively. There was no report on sunshine duration.

*Farmers are still planting their crops.*

### **2.3.4 Nyahururu**

The station recorded total rainfall amount of 5.3mm. The mean air temperature and total Pan Evaporation recorded were 16.8°C and 47.3mm respectively. There was no report on sunshine parameter.

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

### **2.3.5 Dagoretti**

The station recorded rainfall amount of 16.0mm. The Mean air Temperature and total Pan Evaporation reported were 20.5°C and 48.0mm respectively. There was no report on sunshine hours.

*No Phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station reported total rainfall amount of 123.9mm. There was no report on Mean air temperature, pan and sunshine parameters.

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

### **2.4.2 Meru**

The station reported total rainfall amount of 69.1mm. The Mean air Temperature and total Pan Evaporation reported were 19.9°C and 44.2mm respectively. There was no report on sunshine parameter.

*Some crops are at emergence stage while others are still being planted.*

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

The station reported total rainfall amount of 8.8mm. The Mean air Temperature and Pan Evaporation recorded were 21.2°C and 58.3mm respectively. Sunshine duration was 7.8hours/day.

*No Phenological report.*

## **2.5. COASTAL REGION**

### **2.5.1 Msabaha**

The station reported rainfall amount of 24.3mm. The average air temperature and total Pan Evaporation recorded were 27.7°C and 56.5mm respectively. There was no report on sunshine hours.

*Mangoes were at 80% flowering and 40% fruit setting stages and in good state. Farmers are still preparing their farms in readiness for the short rains season.*

### **2.5.2 Mtwapa.**

The station recorded rainfall amount of 48.7mm. The average air temperature and total Pan Evaporation reported were 27.2°C. There was no report on Pan Evaporation and Sunshine parameters.

*Harvesting of maize is still in progress as farmers continue preparing their farms for planting.*

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

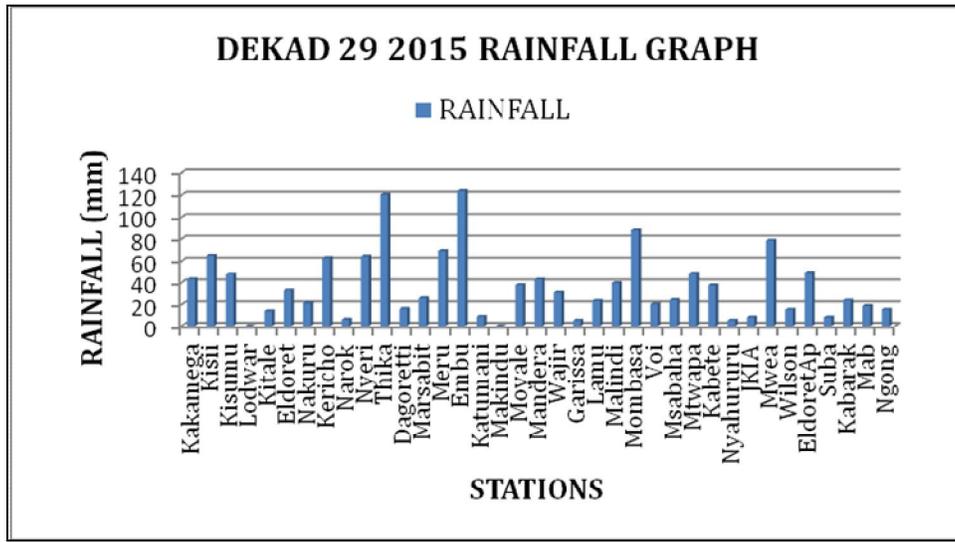


Figure 3.1: Dekadal rainfall totals for 11 –20 October 2015

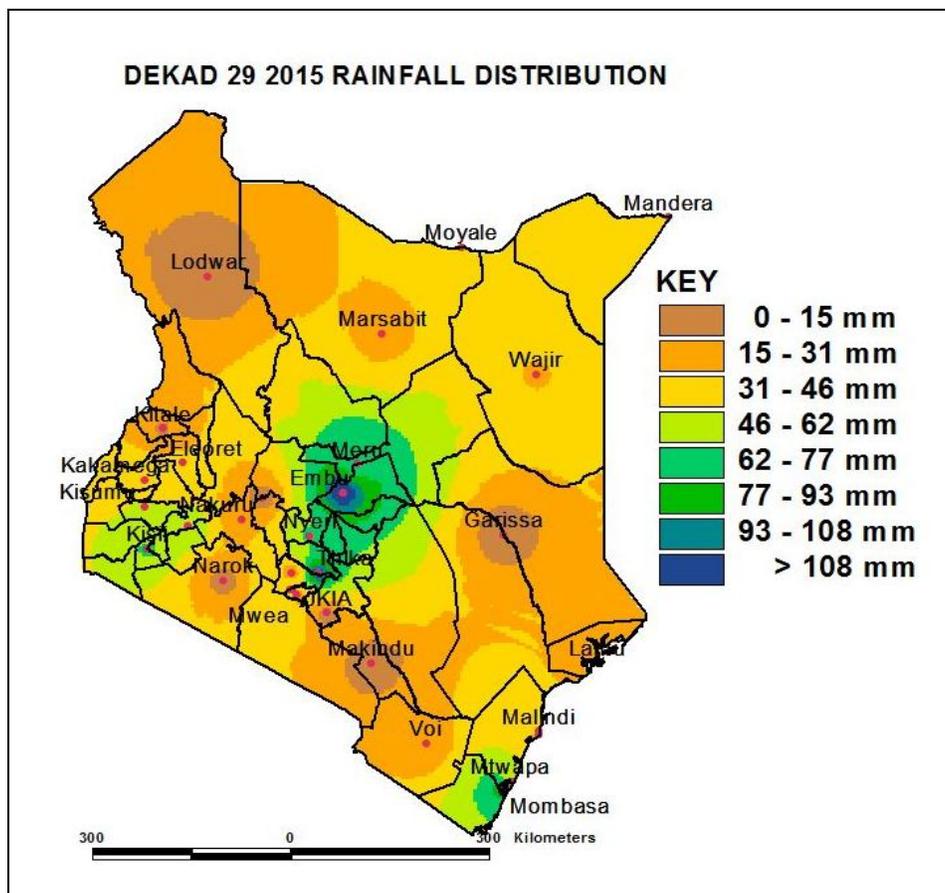


Figure 3.2: Dekadal rainfall distribution for dekad 29, 2015

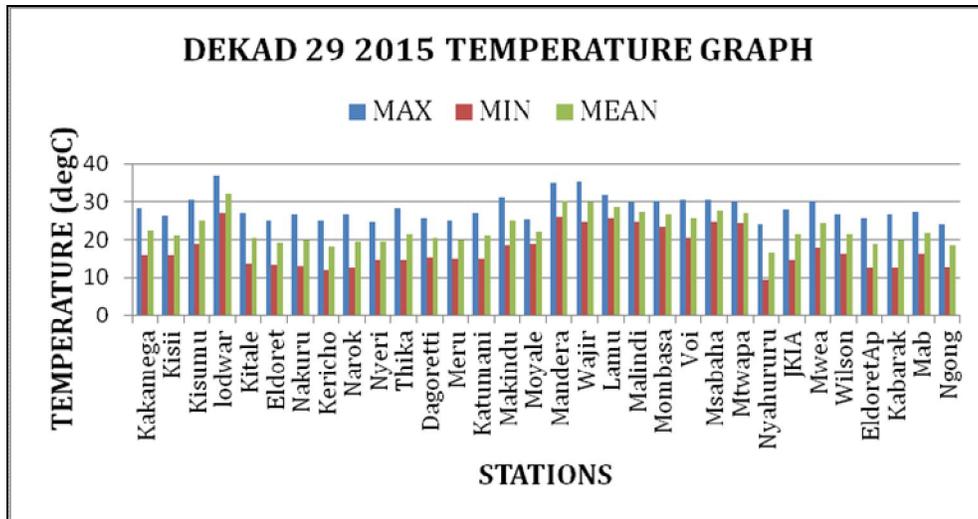


Figure 3.3: Maximum, Minimum and Average temperature for dekad 29, 2015

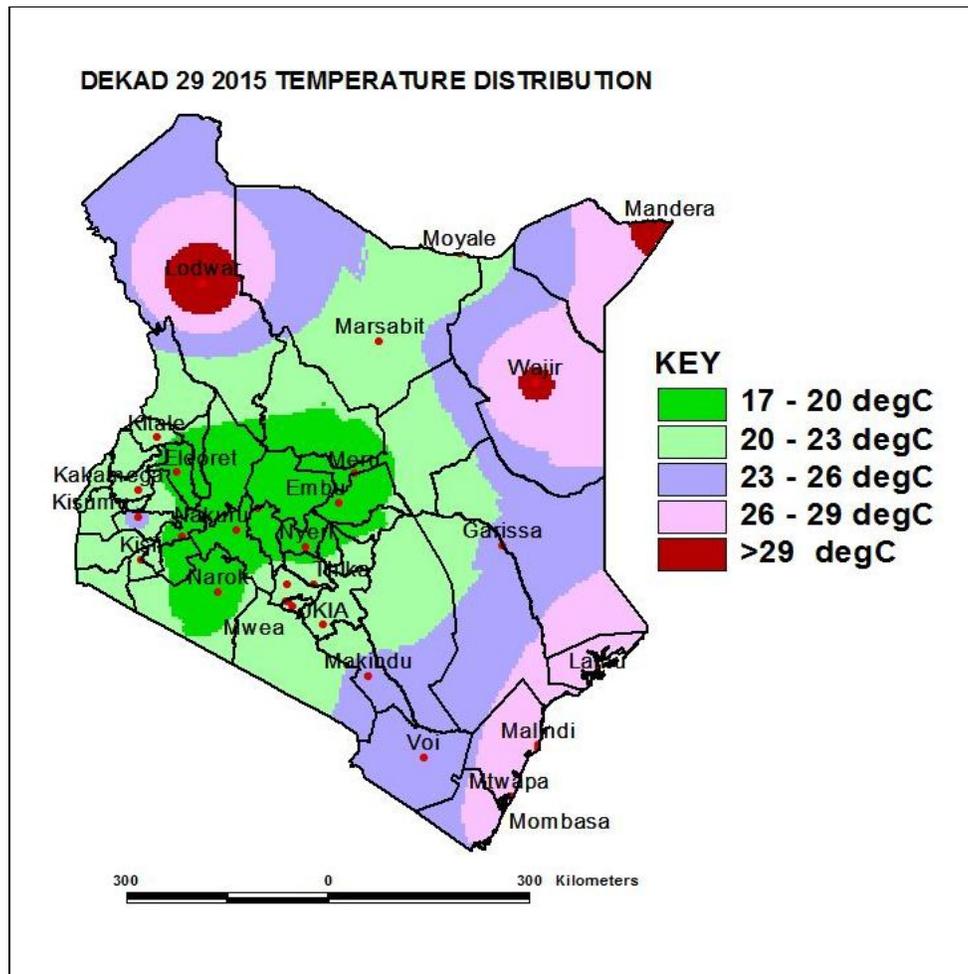


Figure 3.4: Mean temperature distribution for dekad 29, 2015

#### 4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-31 OCTOBER, 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 experience morning rains over few places throughout the forecast period. Afternoon showers and thunderstorms over several places are expected to occur for the entire forecast period.

*The rains and the showers will benefit 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 experience sunny intervals in the morning except on the last day of the forecast period when rains are expected over few places. Afternoons are expected to experience sunny intervals for the first six days followed by showers and thunderstorm over few places, breaking into sunny intervals on the eighth day then showers and thunderstorms over several places thereafter.

*The rains and showers will be of advantage to 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)**, mornings are expected to experience rains over few places increasing to several places from the seventh day. Afternoons are expected to experience showers over few places increasing to several places from the seventh day to the end of the forecast period.

*The rains and showers will be beneficial to the development of maize crops that are in the emergence stage in places like Nyeri.*

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo)**, Mornings are expected to experience rains over few places throughout the forecast period except on the eighth day. Afternoons are expected to experience showers over few places for the first four days breaking into sunny intervals to the eighth day, followed by showers over several places thereafter.

*The rains and showers will benefit the growth and development 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 interval the entire forecast period. Afternoons are expected to experience sunny intervals for the first seven days except the fourth day, followed by showers over few places thereafter.

*The afternoon 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 sunny intervals for the first two days followed by showers over few places thereafter. Afternoons are expected to experience sunny intervals for the entire forecast period except the last day, which is expected to receive showers over several places the whole day.

*The morning showers will be of great benefit to the growth of mangoes, which are at flowering and fruit setting stages in Msabaha, while the afternoon sun will hasten the drying of maize, which is at harvesting stage in places like Mtwapa.*

---

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

Director,  
Kenya Meteorological Services,  
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)

©2015 Kenya Meteorological Services.