



**KENYA METEOROLOGICAL SERVICE  
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 14, 2015  
11-20 MAY, 2015**

**1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities decreased both in intensity and spatial distribution during the dekad in the country. The highest rainfall amount of 175.7mm and 156.2mm were recorded at Kabete and Wilson stations respectively in Nairobi region compared to 206mm received at Lamu station in Coastal region in the previous dekad. Western region reported the highest rainfall amount of 127.7mm at Kakamega station. Kericho station in Rift Valley region recorded the highest rainfall amount of 99.8mm. Eastern region received the highest rainfall amount of 85.9mm at Embu station. In Coastal region, Malindi station recorded the highest rainfall amount of 69.2mm. Thika station in Central region received the highest rainfall amount of 68.3mm. Nyanza region reported the highest rainfall amount of 64.7mm at Kisii station. Moyale station in North Eastern region recorded the highest rainfall amount of 15.5mm.

Maximum and minimum temperatures were on an increasing trend during the dekad. North-eastern region continued to record the highest maximum temperature of 37.1°C at Mandera station compared to 35.9°C reported at the same station in the previous dekad. The lowest Minimum temperature of 9.0°C was recorded at Nyahururu station in central region compared to 8.8°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 14:11- 20 MAY, 2015**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station received rainfall amount of 127.7mm during the dekad. The mean air temperature and Pan Evaporation recorded were 21.6°C and 4.3mm respectively. The sunshine reported was 7.3hrs/day.

*Maize and beans were at emergence and flowering stages respectively. Normal yield is expected for beans though adversely affected by excessive rainfall.*

**2.1.2 Kisii**

The station reported rainfall amount of 64.7mm. The mean air temperature and pan evaporation recorded were 20.6°C and 3.8mm respectively. There was no report on sunshine parameter.

*Maize and beans were both at emergence stage and in fair state. Most farmers are still weeding.*

## 2.2 RIFT VALLEY REGION

### 2.2.1 Kitale

The station reported rainfall amount of 14.9mm. The mean air temperature and pan evaporation recorded were 20.6°C and 3.6mm respectively. There was no report on sunshine duration.

*Both maize and beans are at emergence stage and in good state as weeding is in progress.*

### 2.2.2 Eldoret-Kapsowea

The station received rainfall amount of 29.6mm. The mean air temperature and pan evaporation recorded were 18.3°C and 5.2mm respectively. There was no record on sunshine duration.

*Maize is at emergence stage and in good state. Farmers are doing second weeding.*

## 2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION

### 2.3.1 Nyeri

The station received rainfall amount of 9.8mm. The average air temperature was 19.6°C. There was no report on pan evaporation and sunshine parameters.

*Maize and beans were at ninth leaf and flowering stages respectively and both are in fair state. Beans had been adversely affected by leaf hoppers though normal yield is expected.*

### 2.3.2 Kabete

The station received rainfall amount of 175.7mm. There was no report on Mean air temperature, Pan Evaporation and sunshine duration.

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

### 2.3.3 Thika

The station recorded rainfall amount of 68.3mm. The mean air temperature and pan evaporation recorded were 21.8°C and 4.0mm respectively. There was no report on sunshine duration.

*Maize is at emergence stage while Beans and Potatoes were at flowering stages and all are in fair state. Normal yield is expected for both beans and potatoes.*

### 2.3.4 Nyahururu

The station reported rainfall amount of 3.3mm. The mean air temperature and pan evaporation recorded were 16.0°C and 4.3mm respectively. There was no report on sunshine hours.

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

### **2.3.5. Dagoretti**

The station reported rainfall amount of 115.1mm. There was no report on mean air temperature, pan evaporation and sunshine hours.

*Maize was at 93% ninth leave stage and in good state.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station received rainfall amount of 85.9mm. There was no report on mean air temperature, Pan Evaporation and sunshine parameters.

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

### **2.4.2 Meru**

The station received rainfall amount of 0.02mm. The mean air temperature and Pan Evaporation recorded were 19.4°C and 4.5mm respectively. There was no report on sunshine duration.

*Maize and Beans were at flowering and maturity stages respectively and both are in fair state. Normal yield is expected for both crops.*

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

The station reported rainfall amount of 8.2mm. The average air temperature and pan evaporation recorded were 20.6°C and 4.0mm respectively. The Sunshine duration report was 6.3hrs/day.

*Maize and Beans were both at flowering stage and in fair and good state respectively. Normal yield is expected for both crops.*

## **2.5. COASTAL REGION**

### **2.5.1 Msabaha**

The station received rainfall amount of 10.4mm. The average air temperature and pan evaporation recorded were 27.5°C and 4.5mm respectively. There was no report on sunshine duration.

*Maize was at emergence stage and in fair state while mangoes were at 80% flowering stage and in good state.*

### **2.5.2 Mtwapa**

The station received rainfall amount of 53.4mm. The average air temperature recorded was 27.0°C. There was no report on Pan Evaporation and Sunshine duration.

*Maize was at emergence stage and in fair state. Mangoes were at maturity stage and in fair state with normal yield expected.*

### 3.0 ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

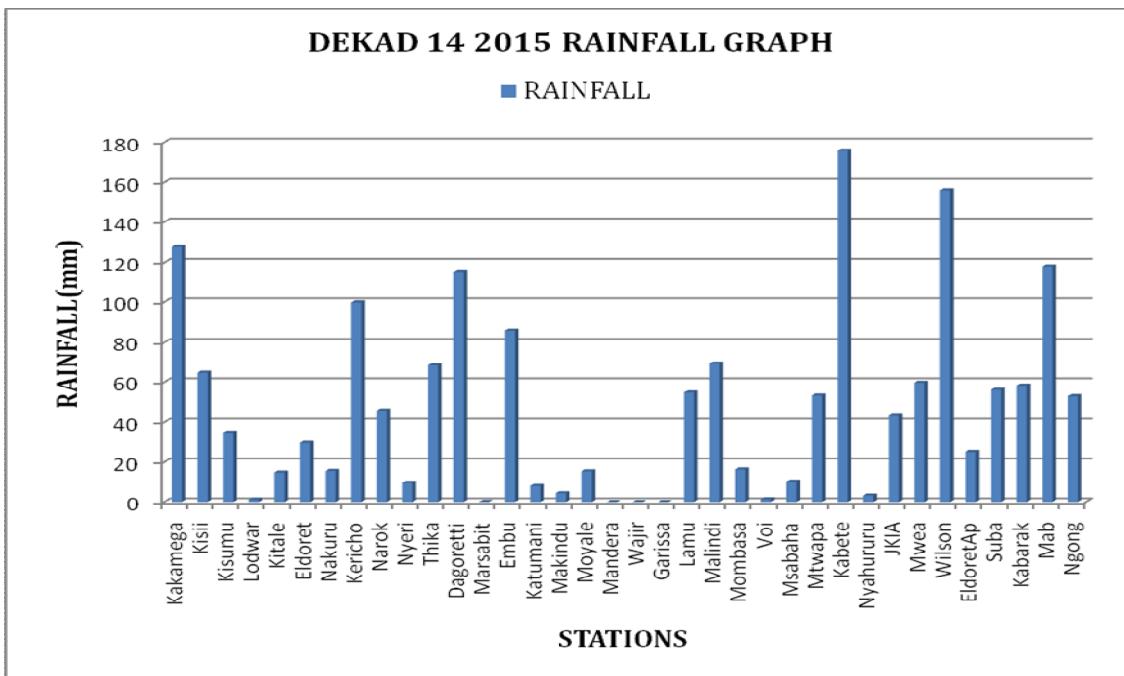


Figure 3.1: Dekadal rainfall totals for 11 -20 MAY 2015

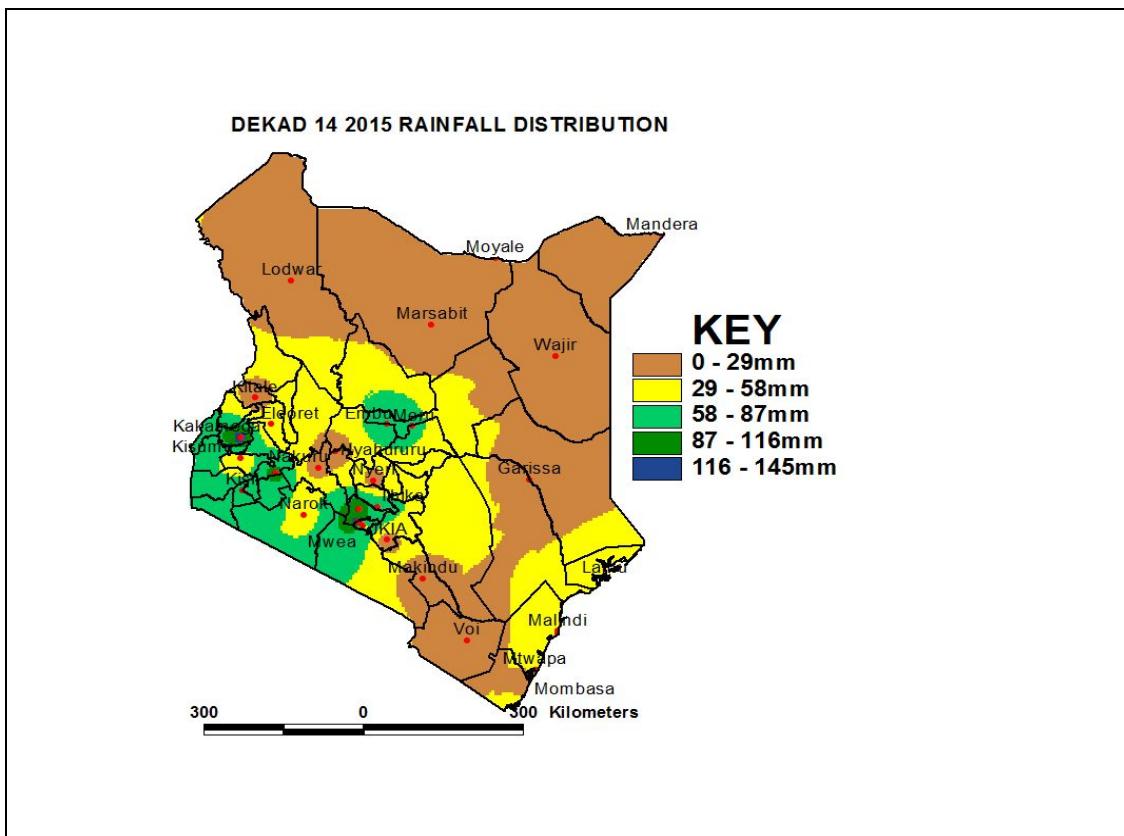


Figure 3.2: Dekadal rainfall distribution for dekad 14, 2015

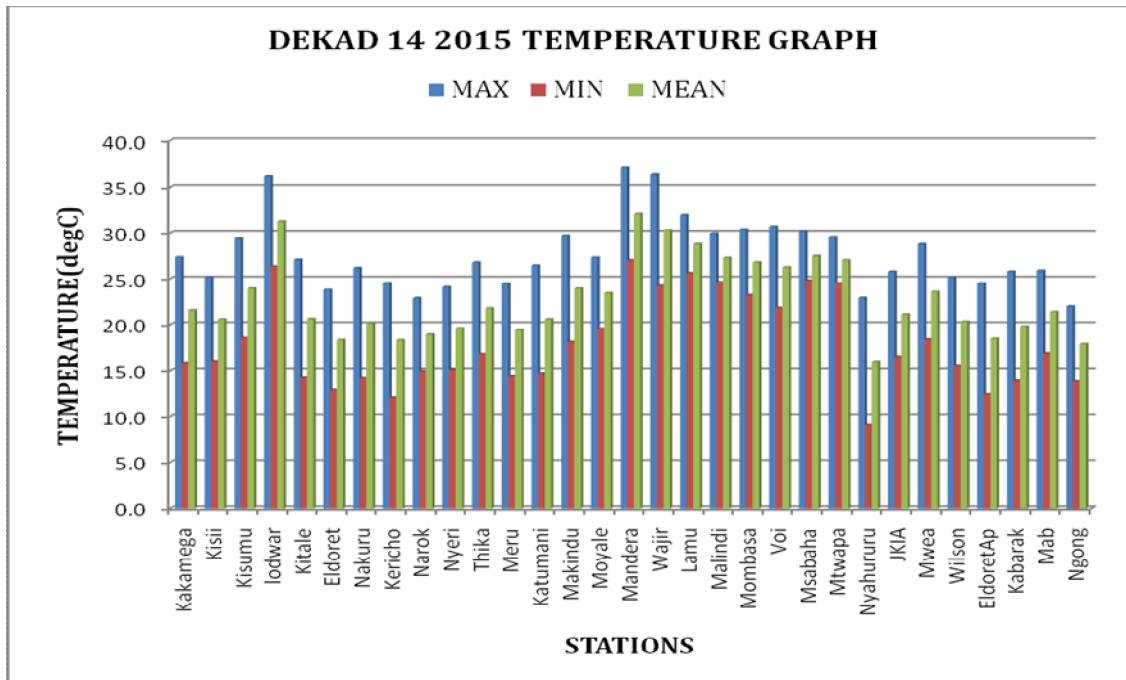


Figure 3.3: Maximum, Minimum and Average temperature for dekad 14, 2015

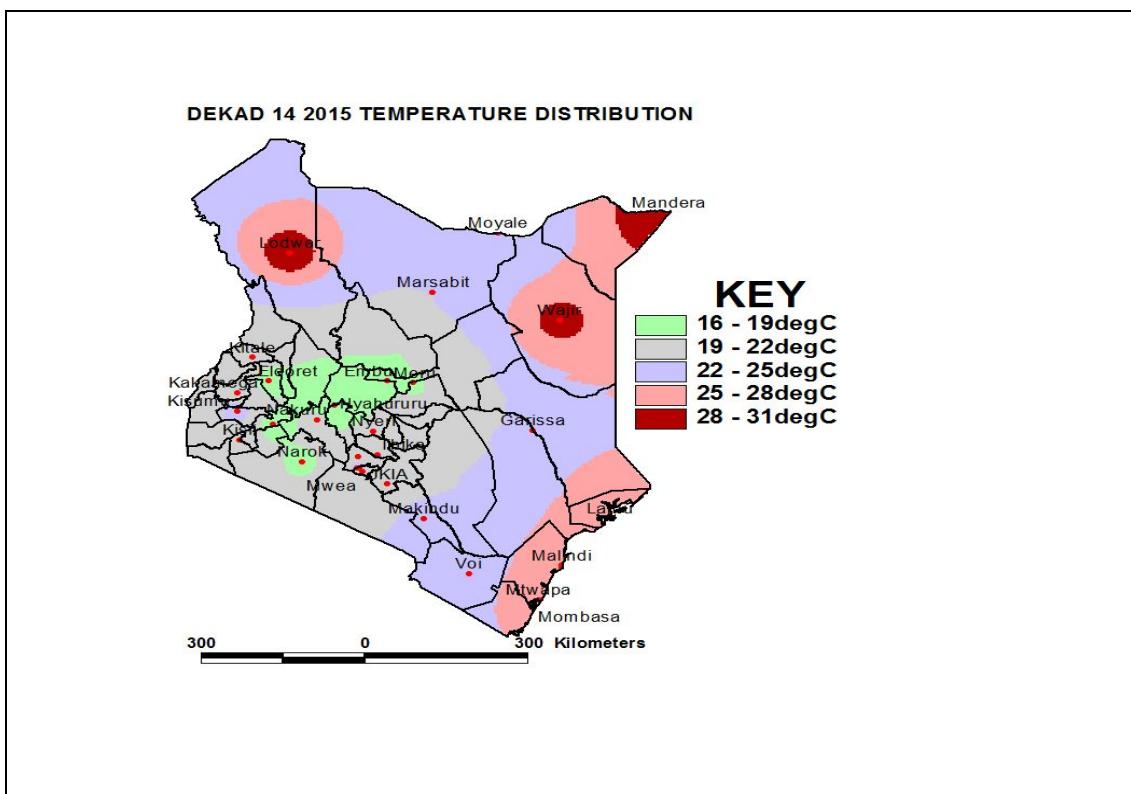


Figure 3.4: Mean temperature distribution for dekad 14, 2015

#### **4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-30 MAY, 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 sunny intervals in the morning for the first four days followed by rains over few places for the remainder of the forecast period. Afternoon/evening are expected to experience showers and thunderstorms over few places for the first four days thereafter increasing to several places throughout the entire forecast period.

*The rains and showers will be of great benefit to the crops, which are mostly in emergence stage in places like Kisii. They will also replenish the soil with moisture that will affect positively on the growth of pasture and vegetation that supports livestock keeping in this region.*

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu)**, are expected to experience sunny intervals in the morning throughout the entire forecast period. Afternoons are expected to experience sunny intervals for the first three days followed by showers over few places from 24<sup>th</sup> to 26<sup>th</sup> on the Kenya-Uganda border then breaking to sunny intervals for the remainder of the forecast period.

*The afternoon showers will be of advantage to the growth of pasture and vegetation that supports the livestock kept in these regions.*

- ❖ **The Central highlands including Nairobi area (counties of Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga)**, are expected to experience cloudy early mornings giving way to sunny intervals. Afternoon/evening showers are expected over few places for the first half of the forecast period and sunny intervals thereafter.

*Afternoon/evening showers will be of great benefit to the development of crops that are in the flowering stage in places like Meru etc.*

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

*The sunny conditions will be of disadvantage to the growth of pasture and vegetation that supports the livestock kept in these regions.*

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui)**, are expected to experience sunny intervals the entire day during the forecast period.

*The sunny conditions will be of disadvantage to the pasture and vegetation growth for livestock rearing in this region and also the maize and Beans that are at flowering stage in places like Katumani.*

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc)**, are expected to experience sunny intervals with showers over few places in the morning. Afternoons are expected to experience sunny intervals for the first seven days of the forecast period followed by showers over few places thereafter.

*The showers will continue benefiting the growth and development of Maize that is at emergence stage in places like Msabaha and Mtwapa.*

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

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