



**KENYA METEOROLOGICAL SERVICE  
DEKADAL AGROMETEOROLOGICAL BULLETIN**

**WEATHER AND CROP REVIEW FOR DEKAD 08, 2015  
11-20 MARCH, 2015**

**1. HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

There was an increase in Rainfall activities both in intensity and in spatial distribution over the country during the dekad. The highest rainfall was reported in Coastal region where Mombasa, Mtwapa stations recorded 43.0mm and 13.1mm respectively compared to 0.02mm received at Voi station in the same region in the previous dekad.

Nakuru station in Rift Valley region received highest rainfall amount of 9.7mm. In Nyanza region, Kisii station recorded the highest rainfall amount of 2.9mm. Nyeri station in Central region received highest rainfall amount of 4.2mm. In Eastern region, Makindu station recorded the highest rainfall amount of 0.01mm. Marsabit station in North Eastern region received highest rainfall amount of 0.01mm. The remaining regions continued to report dry conditions.

During this dekad, the maximum temperatures decreased while the minimum temperatures increased in most stations. North-eastern region continued to record the highest maximum temperature of 38.3°C at Lodwar station compared to 38.5°C at the same station in the previous dekad. The lowest Minimum temperature of 5.8°C was recorded at Nyahururu station in central region compared to 5.4°C reported in 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 08:11- 20 MARCH, 2015**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station received no rainfall during the dekad. The mean air temperature and pan evaporation reported were 24.9°C and 7.0mm respectively. There was no report on sunshine duration.

*Farmers have started planting.*

**2.1.2 Kisii**

The station received rainfall amount of 2.9mm. The mean air temperature and pan evaporation recorded were 24.0°C and 6.0mm respectively. There was no record on sunshine parameter.

*Farmers have completed land preparation and are waiting for the long rains to plant.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale**

The station continued to report dry conditions during the dekad. The mean air temperature and pan evaporation recorded were 21.9°C and 7.0mm respectively. There was no report on sunshine duration.

*No phenological report.*

### **2.2.2 Eldoret-Kapsoya**

The station received no rainfall. The mean air temperature and pan evaporation recorded were 20.6°C and 9.0mm respectively. There was no record on sunshine duration.

*No phenological report.*

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

### **2.3.1 Nyeri**

The station received rainfall amount of 4.2mm as compared to 0.0mm reported in the previous dekad. The average air temperature was 19.3°C. There was no report on pan evaporation and sunshine parameters.

*Land preparations for the long rains season are complete.*

### **2.3.2 Kabete**

The station received no rainfall. The pan evaporation reported was 7.8mm. There was no report on the mean air temperature and sunshine duration.

Farmers are still preparing their farms for the long rains season.

### **2.3.3 Thika**

The station recorded rainfall amount of 0.02mm. The mean air temperature and pan evaporation recorded were 22.4°C and 6.2mm respectively. There was no report on sunshine duration.

*Farmers are still preparing their farms for next season.*

### **2.3.4 Nyahururu**

The station continued to report dry conditions. The mean air temperature and pan evaporation recorded were 15.7°C and 7.5mm respectively. There was no report on sunshine duration.

*Land preparation for the next season is still in progress.*

### **2.3.5. Dagoretti**

The station still reported no rainfall. The pan evaporation recorded was 7.1mm. There was no report on mean air temperature and sunshine duration.

*No phenological report.*

## **2.4 EASTERN KENYA REGION**

### **2.4.1 Embu**

The station continued to receive no rainfall. The pan evaporation recorded was 6.2mm. There was no report on mean air temperature and sunshine parameters.

Land preparation is still underway.

### **2.4.2 Meru**

The station received no rainfall. The mean air temperature and pan evaporation recorded were 19.6°C and 5.7mm respectively. There was no report on sunshine duration.

*Maize was at harvest stage and in poor state hence below normal yield is expected. Some farmers have started land preparation for the next season.*

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

The station still reported dry conditions. The average air temperature and pan evaporation were 21.7°C and 7.0mm respectively. There was no report on Sunshine duration.

*No phenological report.*

## **2.5. COASTAL REGION**

### **2.5.1 Msabaha**

The station received rainfall amount of 2.3mm. The average air temperature and pan evaporation recorded were 28.4°C and 6.2mm respectively. There was no report on sunshine duration.

*Mangoes were at 100% fruit setting stage and in good state. Land preparation is still in progress.*

### **2.5.2 Mtwapa.**

The station received rainfall amount of 13.1mm. The average air temperature recorded was 28.4°C. There was no report on Pan Evaporation and Sunshine duration.

*Mangoes were at flowering stage and in fair state. Land preparation for the next season is over.*

3.0 ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

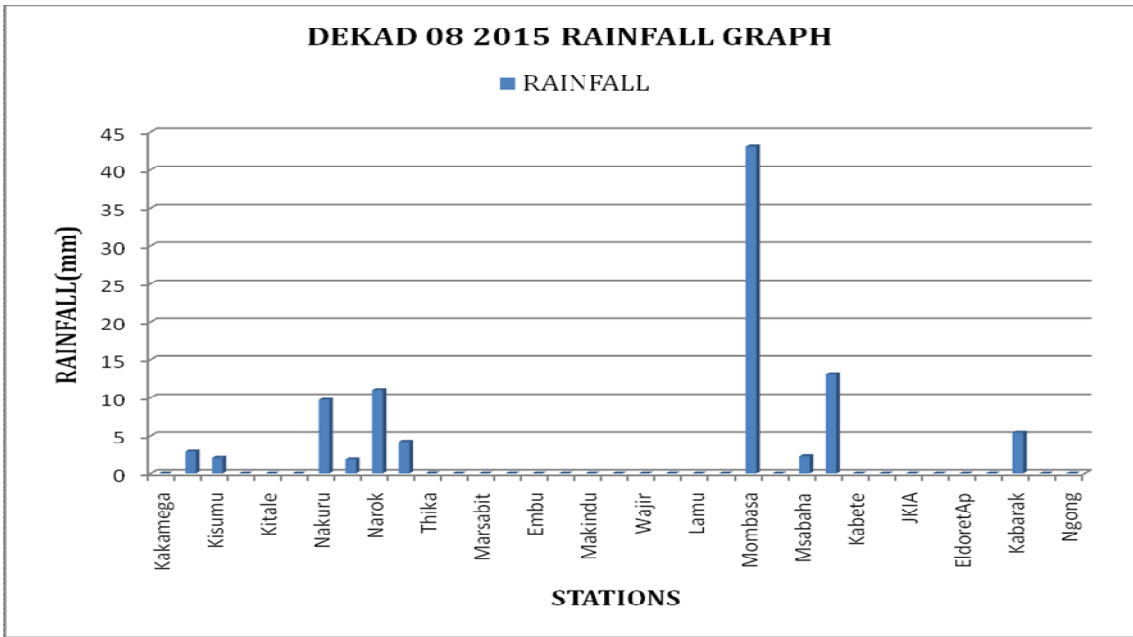


Figure 3.1: Dekadal rainfall totals for 11 – 20 MARCH 2015

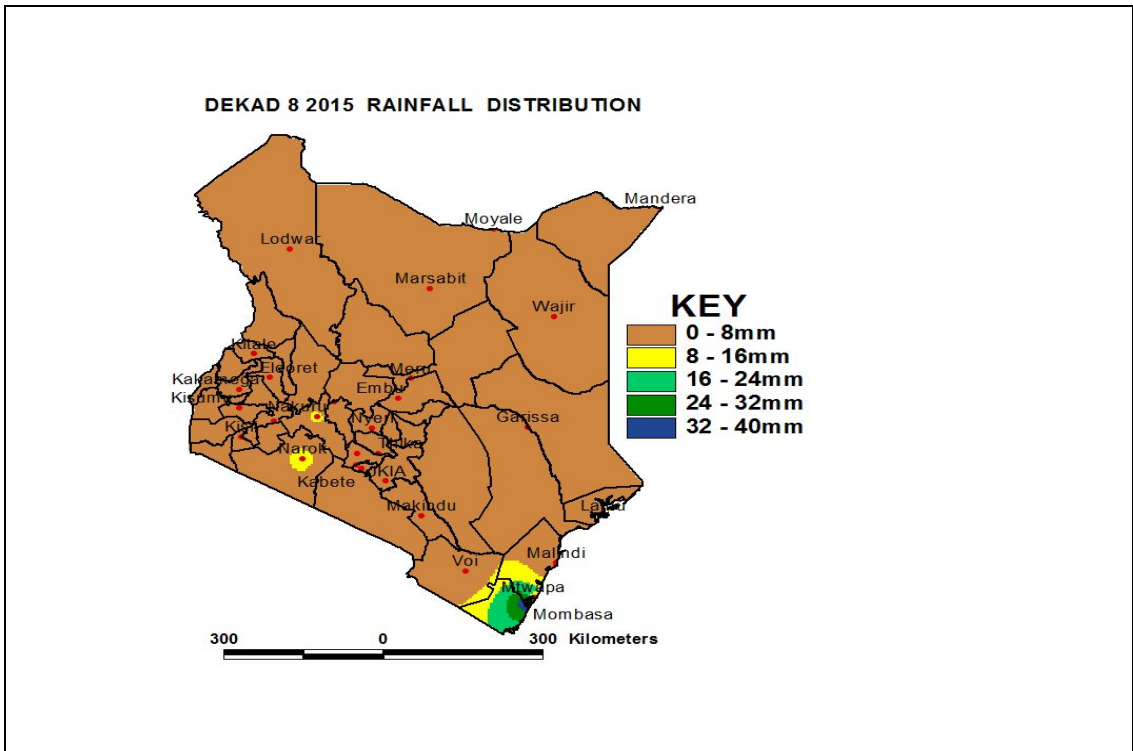


Figure 3.2: Dekadal rainfall distribution for dekad 08, 2015

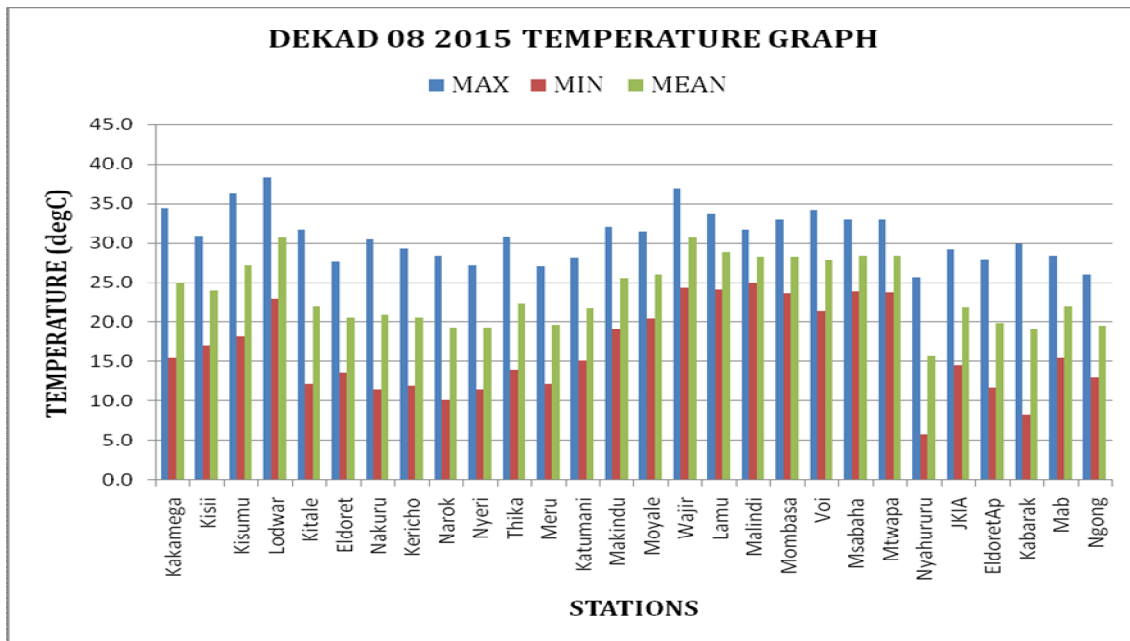


Figure 3.3: Maximum, Minimum and Average temperature for dekad 08 2015

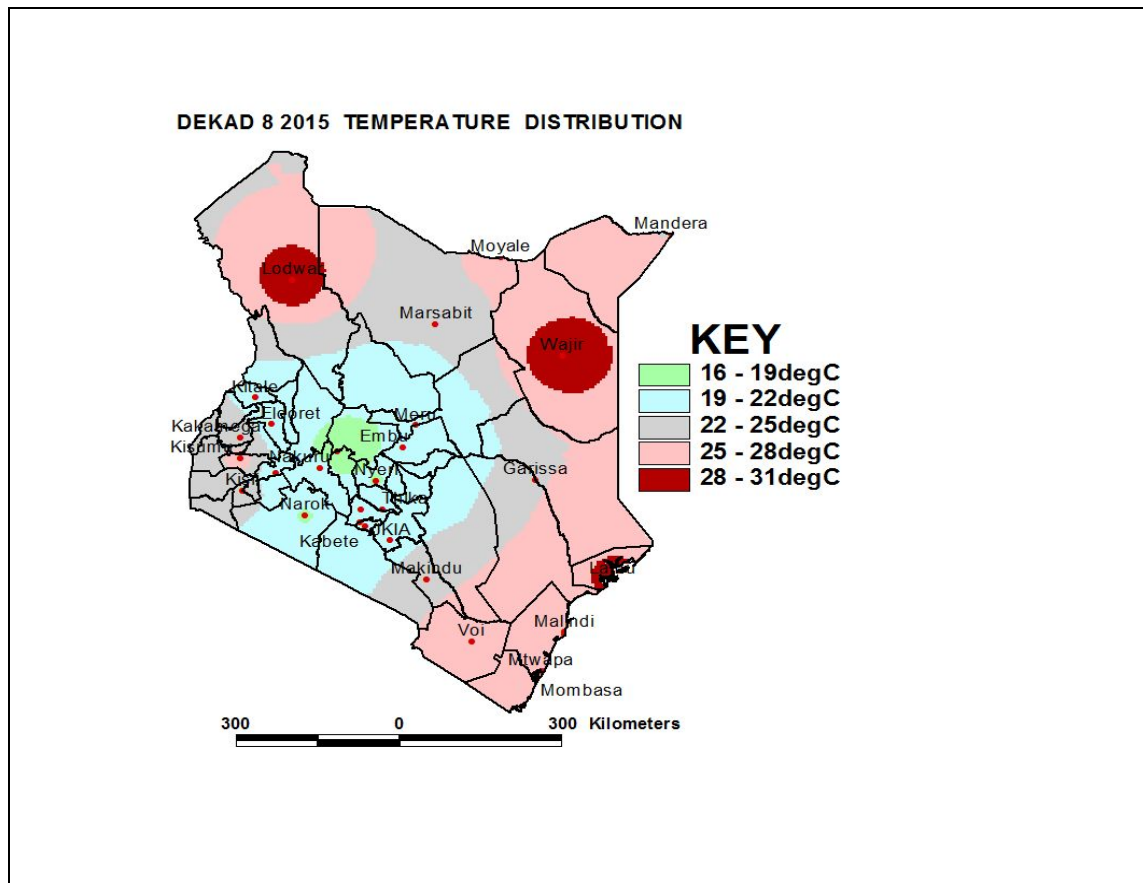


Figure 3.4: Mean temperature distribution for dekad 08 2015

#### **4. EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21-31 MARCH, 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 entire morning with occasional rains over few places for the entire forecast period. Afternoon/evening showers and thunderstorms over few places are expected at the beginning of the forecast period improving to several places as the period progresses.

*The rains and afternoon showers will replenish the soil with moisture that will affect positively on the growth of pasture and vegetation that supports livestock keeping in the region.*

- ❖ **The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals throughout the day for the entire forecast period.

*The sunny conditions will continue to deprive the soil with moisture that will affect negatively on the growth of pasture and vegetation hence affecting 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 with rains over few places giving way to sunny intervals. Afternoon/evening showers are expected over few places at the beginning of the forecast period improving to several places as the period progresses.

*The rains and showers might introduce aflatoxin to maize that is in the harvesting stage in places like Meru, etc.*

- ❖ **Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience morning rains over few places and afternoon/evening showers over few places throughout the forecast period.

*The rains and showers will enhance the growth of pasture and vegetation that sustain livestock keeping in this region.*

- ❖ **Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience sunny intervals in the morning with occasional rains over few places for the entire forecast period. Afternoon/evening showers are expected over few places throughout the forecast period.

*The morning rains and the afternoon showers will replenish the soil with moisture that will enhance the pasture and vegetation growth for livestock rearing in this region.*

- ❖ **In the Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc),** are expected to experience morning showers over few places giving way to sunny intervals in the afternoon throughout the forecast period.

*The morning showers will affect positively on the development of mangoes that are in the flowering and 100% fruit setting stages in places like Mtwapa and Msabaha respectively.*

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

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