



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 35, 11<sup>TH</sup> – 20<sup>TH</sup> DECEMBER, 2018.

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Rainfall activities decreased drastically in intensity but increased in spatial distribution in most stations. Voi station in Coastal region received the highest rainfall amount of 112.5mm compared to 159.0mm reported at Thika station in Central region in the previous dekad. Central region received the highest rainfall amount of 88.0mm at Thika station. Kitui station in Eastern region recorded the highest rainfall amount of 82.5mm. Nyanza region recorded the highest rainfall amount of 72.5 mm at Suba station. Dagoretti station in Nairobi region received the highest rainfall amount of 60.7mm. Western region reported the highest rainfall amount of 51.9mm at Matungu station. Kericho station in the Rift Valley region recorded the highest rainfall amount of 35.1mm; while Garissa station in North Eastern region received the highest rainfall amount of 20.1mm.

Both Maximum and Minimum temperatures reduced in most stations during the dekad. The highest Maximum temperature of 35.7<sup>0</sup>C was recorded at Wajir station in North Eastern region.

Nyahururu station in Central region continued to record the lowest Minimum temperature of 9.5<sup>0</sup>C.

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 35, 11<sup>TH</sup> – 20<sup>TH</sup> DECEMBER, 2018.

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

There was no report on rainfall, mean air temperature, total Pan Evaporation nor sunshine parameters.

#### 2.1.2 Kisii

The station reported total rainfall amount of 29.9mm. Mean air temperature recorded was 20.1<sup>0</sup>C. Total Pan Evaporation recorded was 27.4mm.

*Maize was at flowering stage and in poor state as it has been affected by Fall Army Worms; hence below normal yield is expected.*

## **2.2 RIFT VALLEY REGION.**

### **2.2.1 Kitale.**

The station recorded 10.2 mm of rainfall. The Mean air temperature and Total Pan Evaporation reported were 19.5°C and 35.2mm respectively.

No phenological Report

### **2.2.2 Eldoret – Kapsoya.**

The station recorded 11.3mm of rainfall. The Mean air temperature and Total Pan Evaporation reported were 17.8°C and 49.3mm respectively. There was no report on sunshine parameters.

No phenological Report

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

### **2.3.1 Nyeri**

The station recorded 38.3mm of rainfall. There was no report on Mean air temperature, total Pan Evaporation and Sunshine duration.

*Maize and beans were in emergence and flowering stages respectively; both crops were in fair state.*

### **2.3.2 Kabete**

The station received 39.2mm of rainfall. Total Pan Evaporation was 51.1mm. There was no report on mean air temperature and sunshine duration parameters.

*Maize and Beans were in emergence and flowering stages respectively; both crops were in fair state.*

### **2.3.3 Nyahururu**

The station received 40.7mm of rainfall. The mean air temperature recorded was 15.4°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize harvesting is over.*

### **2.3.4 Dagoretti**

The station recorded 60.7mm of rainfall. The Mean air temperature and total Pan Evaporation were 19.2°C and 39.1mm respectively.

*No Phenological report.*

### **2.3.5 Thika**

The station reported 88.0mm of rainfall. Total Pan Evaporation was 43.5mm. There was no report on Mean Air Temperature and sunshine parameters.

*Maize and Beans were at emergence and flowering stages respectively; both crops were in fair state.*

## 2.4 EASTERN REGION.

### 2.4.1 Embu

The station recorded 31.5mm of rainfall. Total Pan Evaporation recorded was 38.0mm. There was no report on Mean Air Temperature and sunshine parameters.

*Maize was at emergence stage while the beans were at the flowering stage; both crops were in fair state.*

### 2.4.2 Meru

There was no report on rainfall, mean air temperature, total Pan Evaporation nor sunshine parameters.

*There was no phenological report.*

### 2.4.3 Katumani (Machakos)

The station reported 74.8mm of rainfall. Mean air temperature and Total Pan Evaporation recorded were 19.3<sup>0</sup>C and 47.3mm. There was no report on sunshine parameter.

*Maize and Bean crops were at emergence and flowering stages respectively; both were in good state.*

## 2.5 COASTAL REGION.

### 2.5.1 Msabaha

The station recorded 3.3mm of rainfall. The Total Pan Evaporation recorded was 45.8mm. There was no report on Mean Air Temperature.

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

### 2.5.2 Mtwapa

The station received 9.4mm of rainfall. The Mean Air temperature recorded was 28.3°C. Total Pan Evaporation recorded was 54.4mm.

*Maize and Beans were still at emergence stage and in fair state. Mangoes are in dormant stage.*

### 2.5.3 Lamu

The station recorded 3.7mm of rainfall. The Mean air temperature recorded was 28.9 °C. There was no report on total Pan Evaporation

*There was no phenological report.*

## ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

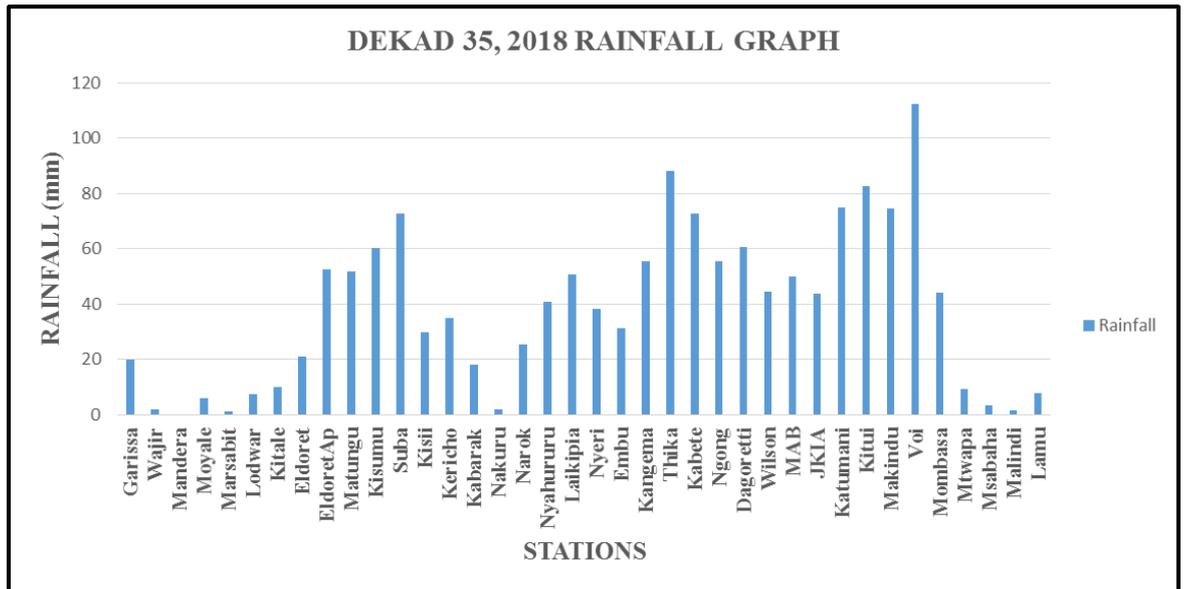


Figure 3.1: Dekadal rainfall totals for dekad 35, 2018.

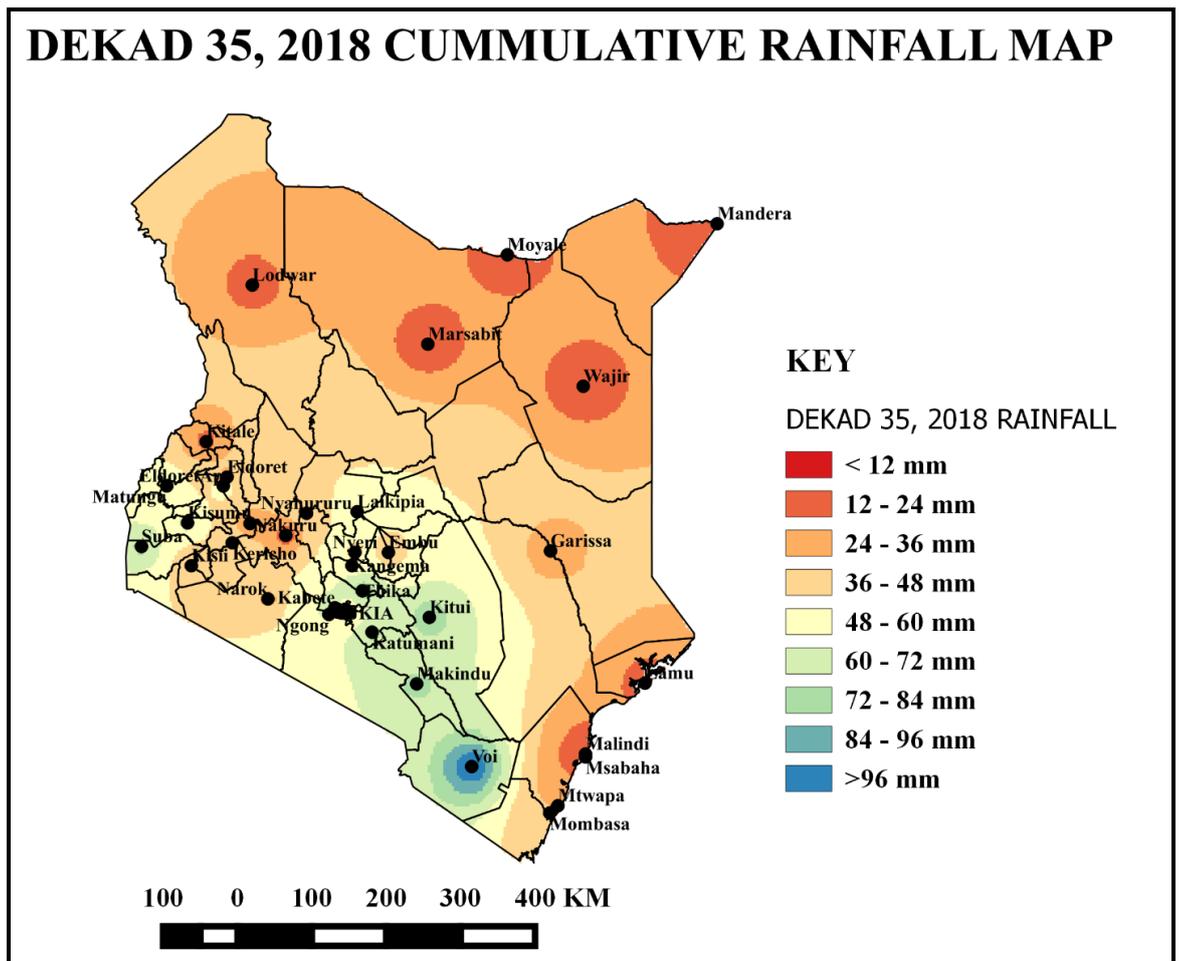


Figure 3.2: Dekadal rainfall distribution for dekad 35, 2018.

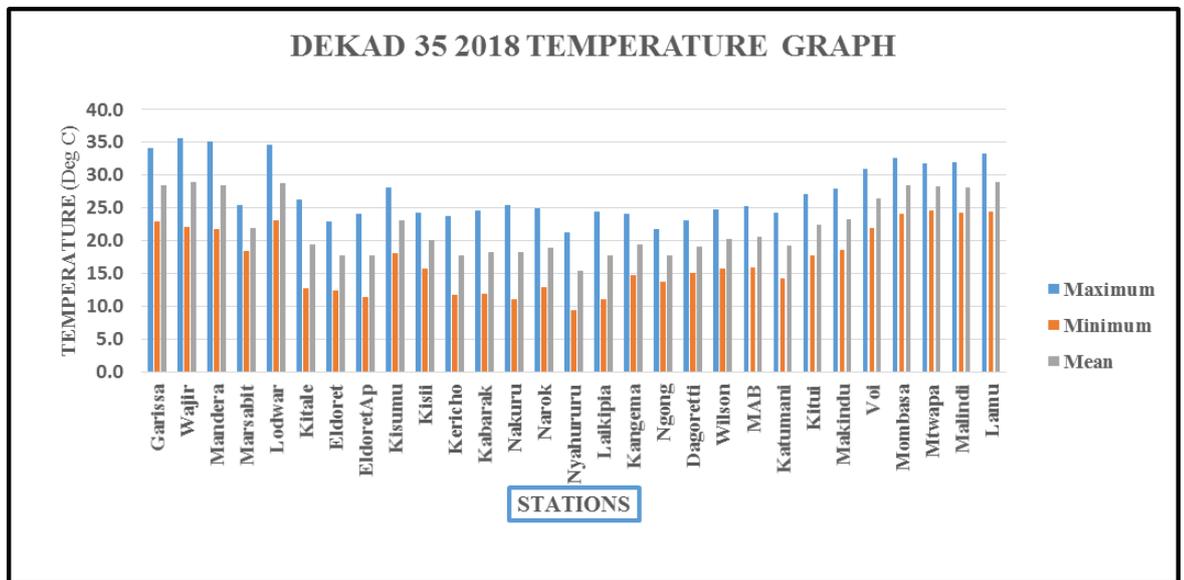


Figure3.3: Maximum, Minimum and Average temperature for dekad 35, 2018.

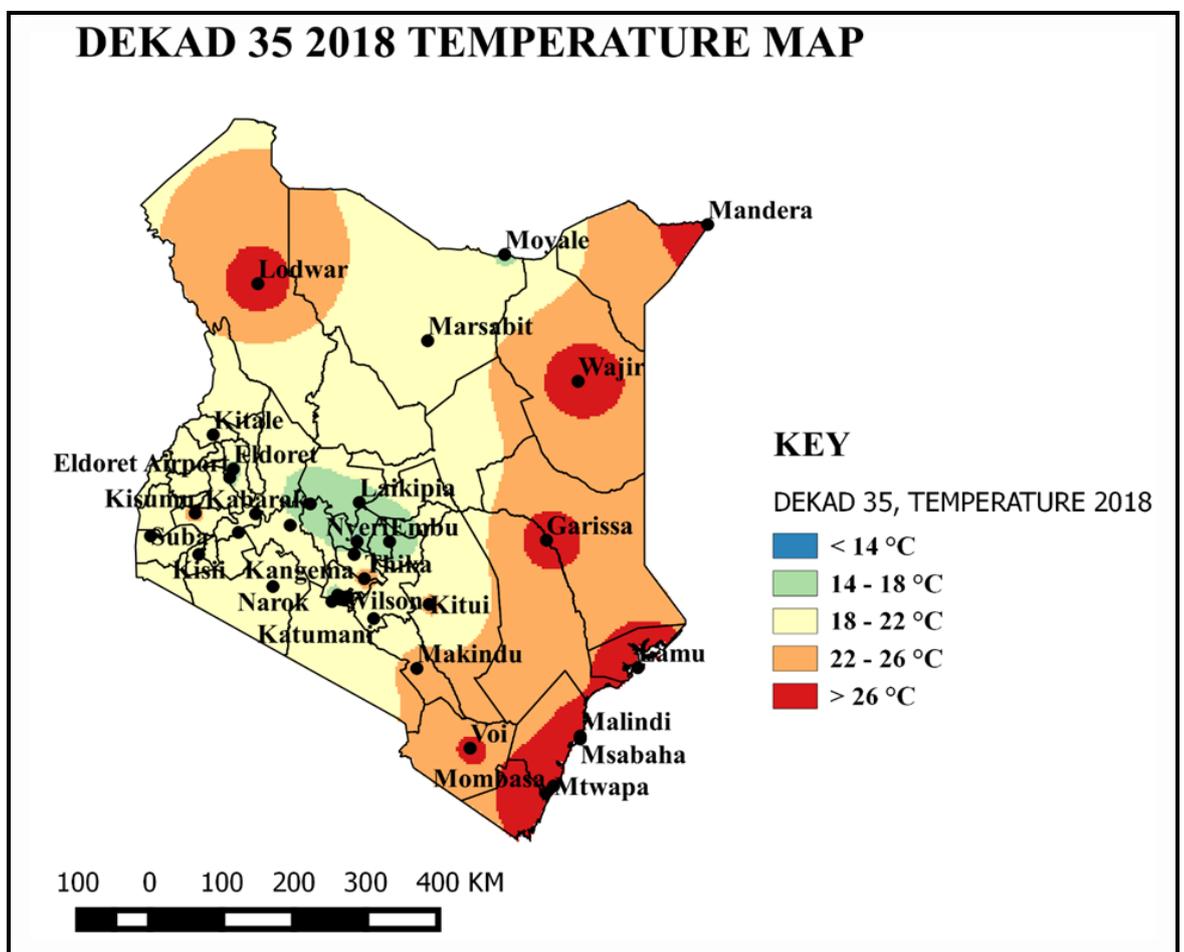


Figure 3.4: Mean temperature distribution for dekad 35, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21<sup>ST</sup>– 31<sup>ST</sup>, DECEMBER 2018.**

**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),** Mornings are expected to experience rains over few places for the first three days of the forecast period, followed by sunny intervals thereafter. Afternoons/Evenings are expected to experience showers and thunderstorms over few places throughout the forecast period.

*The showers will benefit the crops that are at flowering and maturity stages in places like Kisii and Kakamega.*

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

*The sunny intervals will have a negative effect on the pasture and vegetation for the animals 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 cloudiness with light drizzle over few places breaking into sunny intervals for the first five days of the forecast period, followed by cloudiness breaking into sunny intervals thereafter.

Afternoons are expected to experience showers over several places for the first four days, reducing to few places for the next two days, followed by sunny intervals thereafter.

*The Showers will continue to benefit maize and Beans crops that are in emergence stage in places like Kabete, Thika and Meru.*

**North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** Mornings are expected to experience rains over few places for the first five days of the forecast period, followed by sunny intervals thereafter. Afternoon/evening are expected to experience mainly showers over few places for the first six days of the forecast period, followed by sunny intervals thereafter.

*The showers will continue to have a positive impact to the pasture for the animals kept in this region.*

**South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** Mornings are expected to experience rains over several places for the first three days of the forecast period, reducing to few places for the next two days, followed by sunny intervals thereafter. Afternoon/Evening are expected to experience mainly showers over several places for the first six days of the forecast period, followed by sunny intervals thereafter.

*The rains and showers will continue to replenish the crops that are in emergence stage and the pasture for the animals kept in this region.*

**Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.)** are expected to experience mainly showers over few places for first six days of the forecast period, followed by sunny intervals thereafter.

*The showers will benefit the crops that are in emergence stage in this region.*

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For feedback or further guidance, Contact:

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