



**KENYA METEOROLOGICAL DEPARTMENT  
DEKADAL AGROMETEOROLOGICAL BULLETIN  
WEATHER AND CROP REVIEW FOR DEKAD 34, 1<sup>ST</sup> – 10<sup>TH</sup> DECEMBER, 2018.**

**HIGHLIGHTS ON RAINFALL AND TEMPERATURE.**

Rainfall activities increased drastically both in intensity and in spatial distribution in most stations. Central region received the highest rainfall amount of 159.0mm at Thika station compared to 73.2mm reported at Kitui station in Eastern region in the previous dekad. Katumani station in Eastern region received the highest rainfall amount of 133.5mm. Nairobi region recorded the highest rainfall amount of 105.2 mm at JKIA station. Narok station recorded the highest rainfall amount of 70.9 mm in Rift Valley region. North-Eastern region reported the highest rainfall amount of 69.4mm at Garissa station. Kisii station in Nyanza region received the highest rainfall amount of 63.3mm. Coastal region recorded the highest rainfall amount of 49.4mm at Mombasa station; while Matungu station in Western region reported the highest rainfall amount of 40.5mm.

Both Maximum and Minimum temperatures reduced in most stations during the dekad. The highest Maximum temperature of 35.1<sup>0</sup>C was recorded at Lodwar and Garissa stations in North Eastern region compared to 36.1<sup>0</sup>C reported at Lodwar station in the same region in the previous dekad.

Nyahururu station in Central region continued to record the lowest Minimum temperature of 7.5<sup>0</sup>C compared to 10.0<sup>0</sup>C reported 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.

**CROP AND WEATHER REVIEW FOR DEKAD 34, 1<sup>ST</sup> – 10<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 63.3mm. Mean air temperature recorded was 20.4°C. Total Pan Evaporation recorded was 27.8mm.

*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 68.1 mm of rainfall. The Mean air temperature was 19.6°C. There was no report on total Pan Evaporation.

No phenological Report

### **2.2.2 Eldoret – Kapsoya.**

The station recorded 37.4mm of rainfall. The Mean air temperature recorded was 18.5°C. There was no report on and total Pan Evaporation and sunshine parameters.

No phenological Report

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

### **2.3.1 Nyeri**

The station recorded 95.8mm of rainfall. There was no report on Mean air temperature, total Pan Evaporation and Sunshine duration.

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

### **2.3.2 Kabete**

The station received 62.7mm of rainfall. There was no report on mean air temperature, total Pan Evaporation and sunshine duration parameters.

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

### **2.3.3 Nyahururu**

The station received 9.0 mm of rainfall. The mean air temperature recorded was 15.0°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize harvesting is over.*

### **2.3.4 Dagoretti**

The station recorded 49.5 mm of rainfall. The Mean air temperature and total Pan Evaporation were 19.5°C and 35.3mm respectively.

*No Phenological report.*

### **2.3.5 Thika**

The station reported 159.07mm of rainfall. Total Pan Evaporation was 51.5mm. There was no report on Mean Air Temperature and sunshine parameters.

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

## **EASTERN REGION.**

### **2.4.1 Embu**

The station recorded 123.1mm of rainfall. Total Pan Evaporation recorded was 49.3mm. There was no report on total Pan Evaporation and Mean Air Temperature.

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

### **2.4.2 Meru**

The station reported 111.7mm of rainfall. The mean air temperature recorded was 19.7°C. There was no report on total Pan Evaporation.

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

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

The station reported 133.5mm of rainfall. Mean air temperature recorded was 19.8°C. There was no report on total Pan Evaporation.

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

## **2.5 COASTAL REGION.**

### **2.5.1 Msabaha**

The station recorded 31.7mm of rainfall. The Total Pan Evaporation recorded was 45.2mm. There was no report on Mean Air Temperature.

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

### **2.5.2 Mtwapa**

The station received 28.3mm of rainfall. The Mean Air temperature recorded was 28.2°C. Total Pan Evaporation recorded was 53.3mm.

*Maize and Beans were still in 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.**

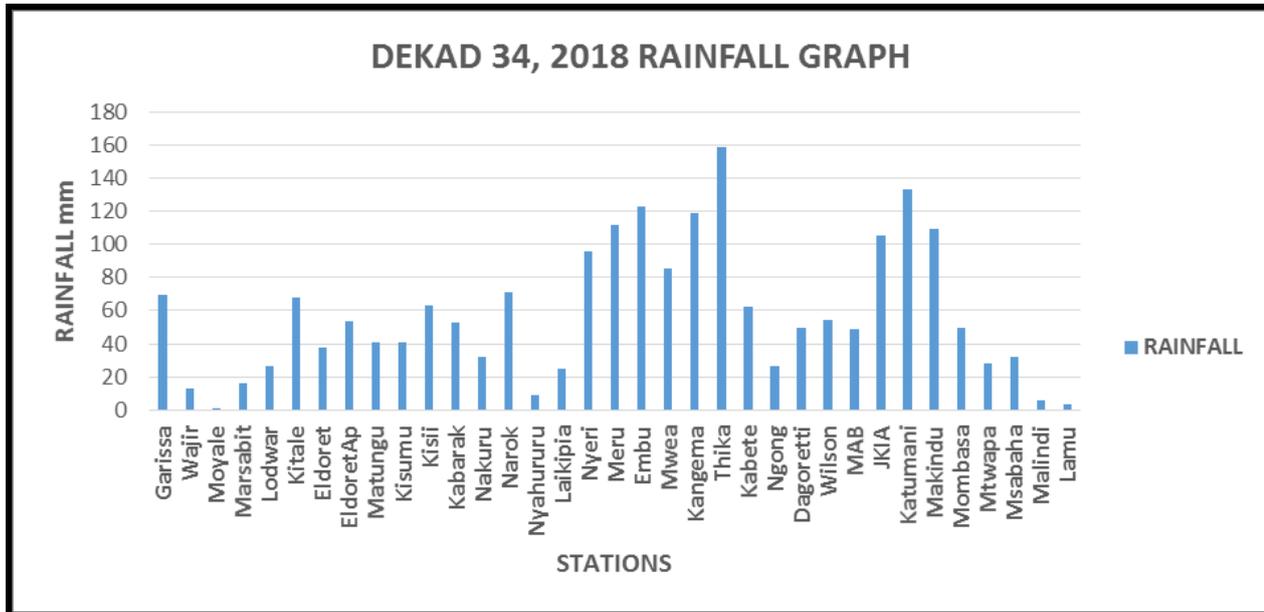


Figure 3.1: Dekadal rainfall totals for dekad 34, 2018.

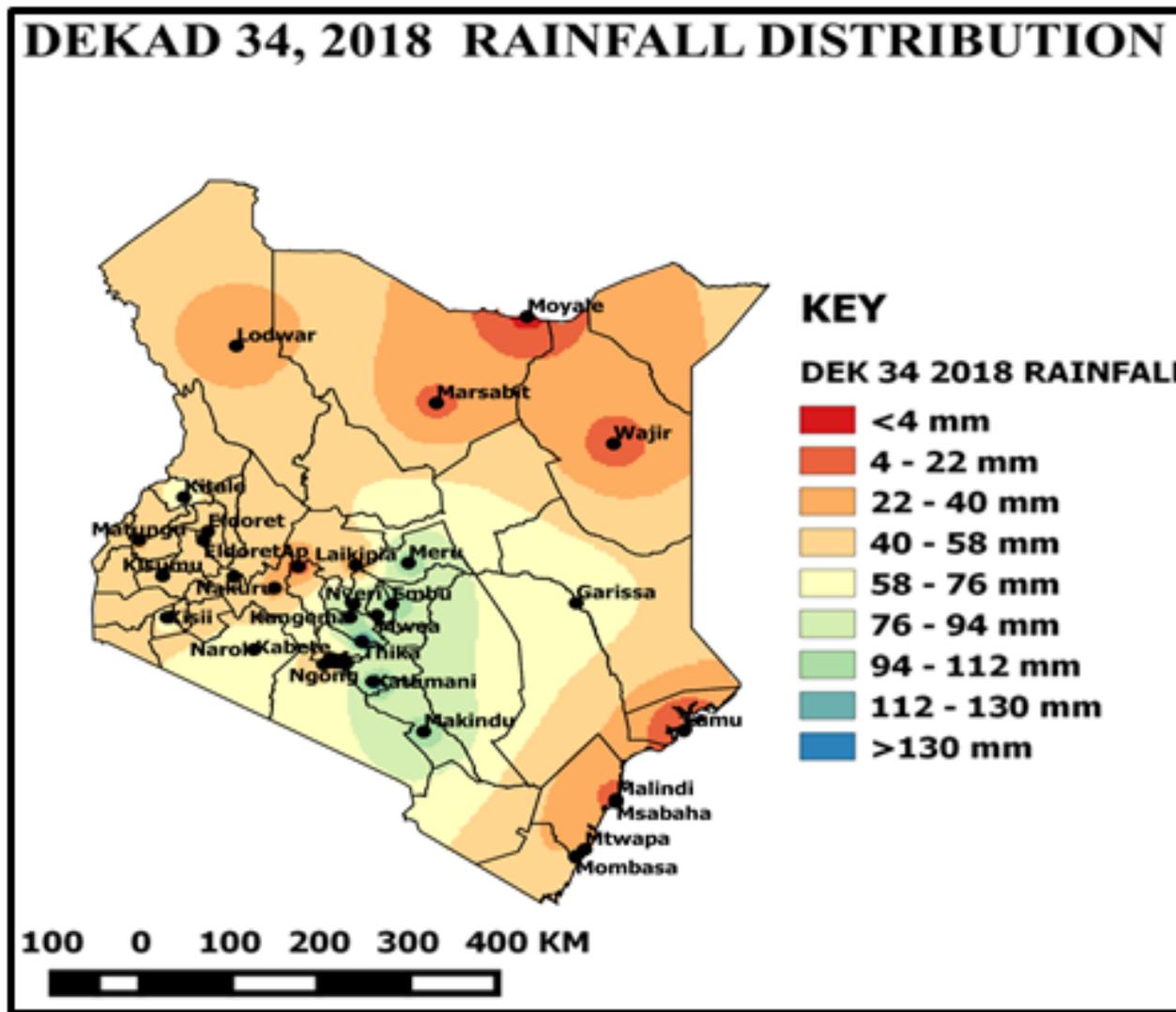


Figure 3.2: Dekadal rainfall distribution for dekad 34, 2018.

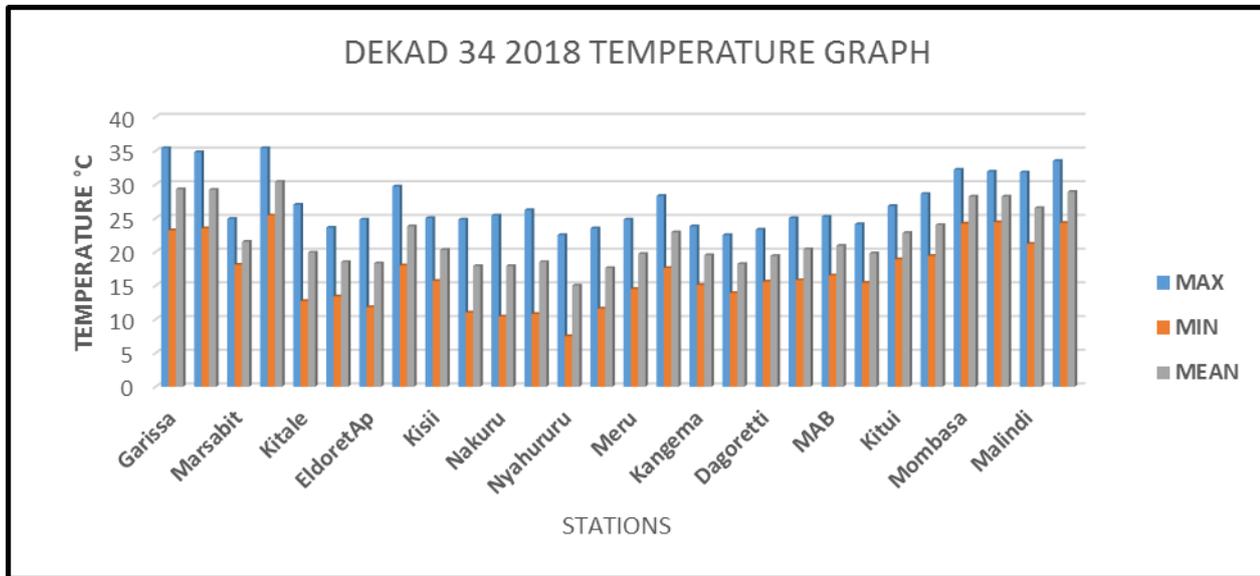


Figure 3.3: Maximum, Minimum and Average temperature for dekad 34, 2018.

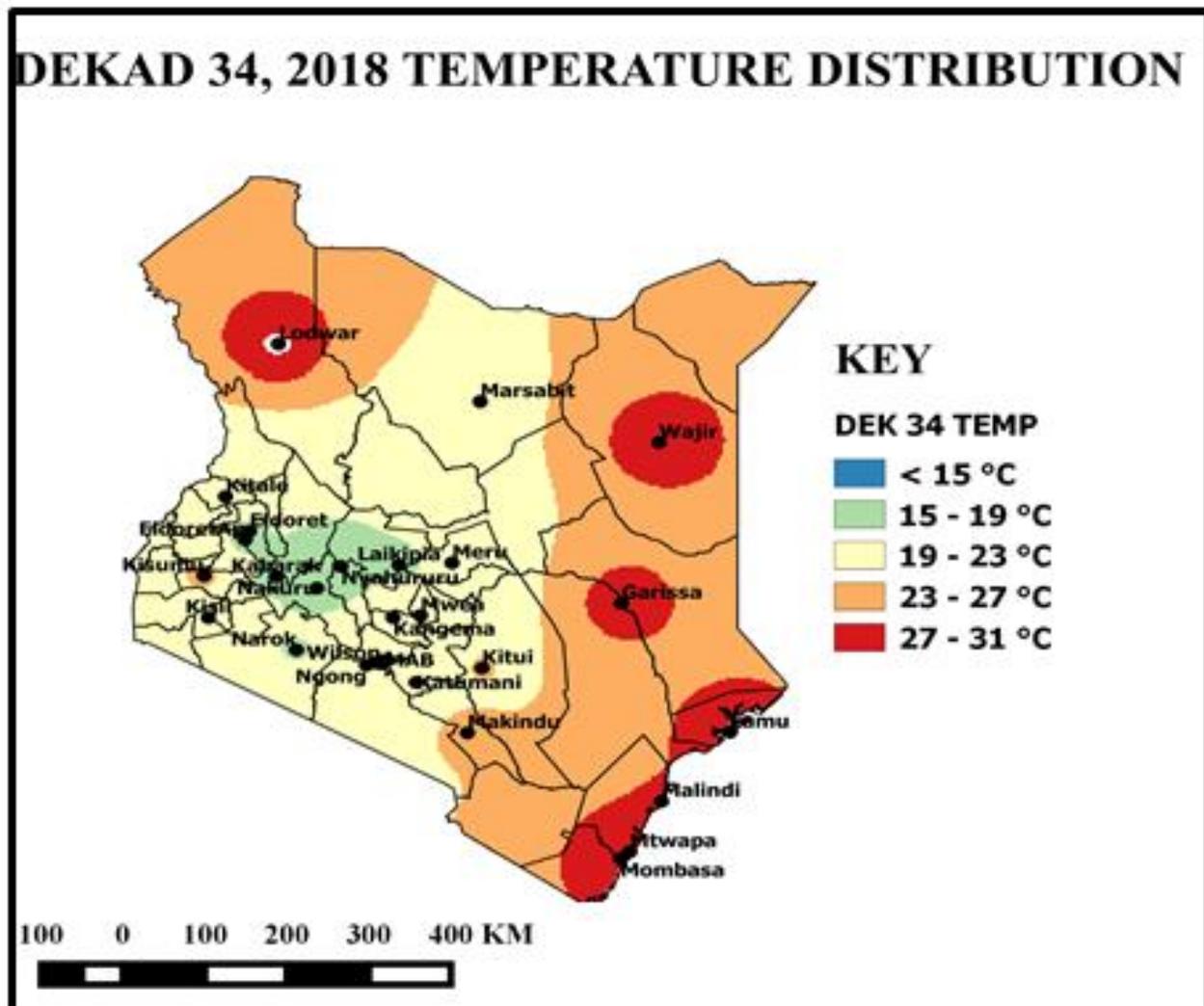


Figure 3.4: Mean temperature distribution for dekad 34, 2018.

**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 five days of the forecast period, followed by sunny intervals thereafter. Afternoons/Evenings are expected to experience showers and thunderstorms over several places for the first five days of the forecast period, reducing to few places thereafter.

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

*The expected rains and showers will continue replenishing the vegetation for the animals 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 cloudiness with rains 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.*

---

For feedback or further guidance, Contact:

Director,  
Kenya Meteorological Department,  
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)

©2018 Kenya Meteorological Department  
A