



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 33, 21<sup>ST</sup> – 30<sup>TH</sup> NOVEMBER, 2018.

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Rainfall activities decreased drastically both in intensity and in spatial distribution during the dekad. Eastern region received the highest rainfall amount of 73.2, 69.0 and 61.4mm at Kitui, Katumani and Meru stations respectively; compared to 115.7mm reported at Meru station in the same region in the previous dekad. Wilson station in Nairobi region received the highest rainfall amount of 34.1mm. North-Eastern region recorded the highest rainfall amount of 31.9 mm at Marsabit station. Thika station recorded the highest rainfall amount of 28.3 mm in Central region. Coastal region reported the highest rainfall amount of 25.7mm at Mombasa station. Kisii station in Nyanza region received the highest rainfall amount of 14.3mm. Rift Valley region recorded the highest rainfall amount of 9.2mm at Kericho station; while Kakamega and Matungu stations in Western region reported the highest rainfall amount of 0.01mm.

Maximum temperatures were still on a reducing trend; while Minimum temperatures increased drastically in most stations during the dekad. The highest Maximum temperature of 36.1<sup>0</sup>C was recorded at Lodwar station in North Eastern region compared to 36.6<sup>0</sup>C reported at the same station in the previous dekad.

Nyahururu station in Central region continued to record the lowest Minimum temperature of 10.0<sup>0</sup>C, compared to 7.3<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 33, 21<sup>ST</sup> – 30<sup>TH</sup> NOVEMBER, 2018.

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

The station recorded 0.01 mm of rainfall. The Mean air temperature reported was 22.5<sup>0</sup>C. There was no report on total Pan Evaporation and sunshine parameters.

*Beans harvesting is on-going and normal yield is expected.*

#### 2.1.2 Kisii

The station reported total rainfall amount of 14.3mm. Mean air temperature recorded was 21.2<sup>0</sup>C. Total Pan Evaporation recorded and sunshine parameter were 37.3mm.

*Maize was at flowering stage and in poor state; while Beans were at harvest stage and in failure state. Maize and Beans have been affected by Fall Army Worms and Black Aphids respectively, hence below normal yield is expected for both crops.*

## **2.2 RIFT VALLEY REGION.**

### **2.2.1 Kitale.**

The station reported dry conditions. The Mean air temperature was 19.6°C. Total Pan Evaporation recorded was 43.5mm. There was no report on sunshine parameter.

No Phenological report.

### **2.2.2 Eldoret – Kapsoya.**

The station received 0.01mm of rainfall. The Mean air temperature recorded was 17.9°C. There was no report on 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 12.6mm of rainfall. There was no report on Mean air temperature and total Pan Evaporation parameters

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

### **2.3.2 Kabete**

The station received 29.8mm of rainfall. There was no report on mean air temperature, total Pan Evaporation and sunshine duration parameters.

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

### **2.3.3 Nyahururu**

The station received 6.4 mm of rainfall. The mean air temperature recorded was 15.8°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize harvesting is over.*

### **Dagoretti**

The station recorded 13.1mm of rainfall. The Mean air temperature recorded was 19.5°C. Total Pan Evaporation recorded was 39.6mm.

*No Phenological report.*

### **2.3.4 Thika**

The station reported 28.3mm of rainfall. Total Pan Evaporation was 46.7mm. There was no report on Mean Air Temperature.

*Maize and Beans are still in emergence and in fair state.*

## **EASTERN REGION.**

### **2.3.5 Embu**

The station recorded 19.3 mm of rainfall. Total Pan Evaporation recorded was 49.3mm. There was no report on Mean Air Temperature.

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

### **2.3.6 Meru**

The station reported 61.4mm of rainfall. The mean air temperature recorded was 19.2<sup>0</sup>C. There was no report on total Pan Evaporation.

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

### **2.3.7 Katumani (Machakos)**

The station reported 69.0mm of rainfall. Mean air temperature recorded was 19.8<sup>0</sup>C. Total Pan Evaporation recorded was 50.5mm.

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

## **2.4 COASTAL REGION.**

### **2.5.1 Msabaha**

The station recorded 43.3. Total Pan Evaporation was 45.8 mm. 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 3.6mm of rainfall. The Mean Air temperature recorded was 27.8<sup>0</sup>C. Total Pan Evaporation recorded was 49.1mm.

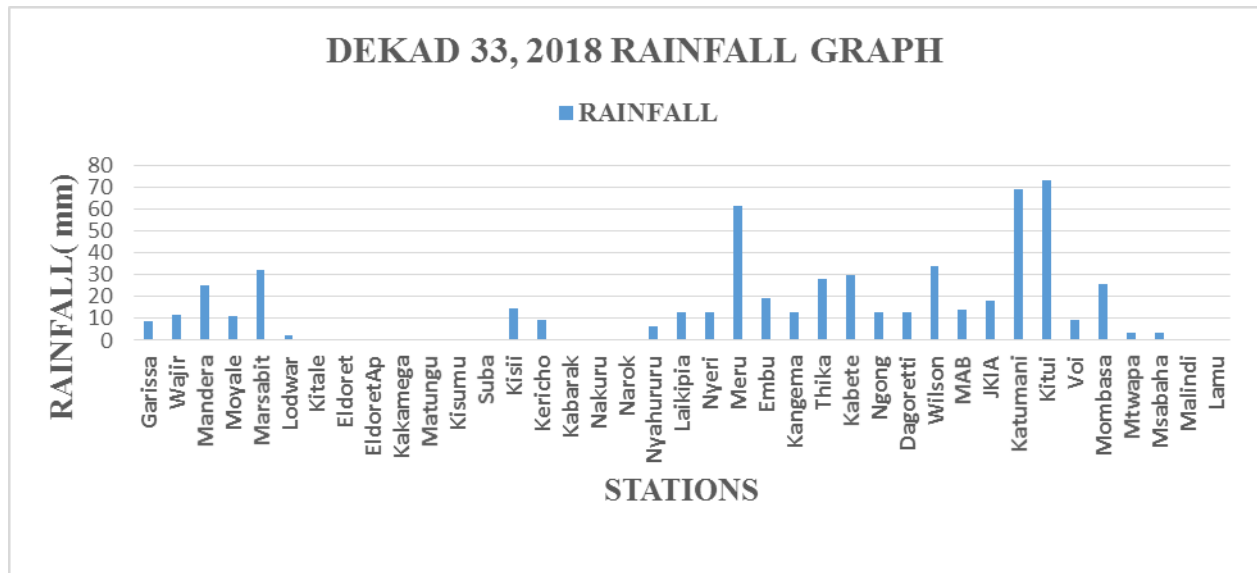
*Maize and Beans were still in emergence stage and in fair state. Mangoes are in dormant stage.*

### **2.5.3 Lamu**

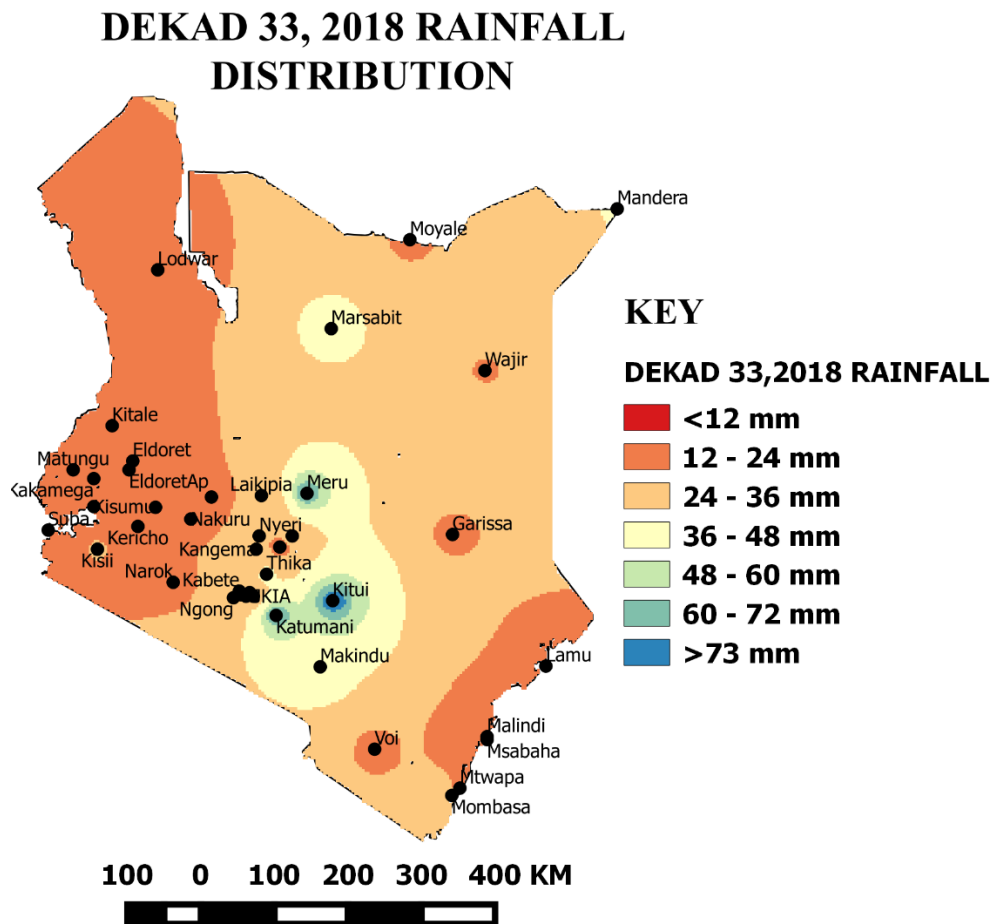
The station recorded 0.01mm of rainfall. Mean air temperature recorded was 28.4 °C. There was no report on total Pan Evaporation

*There was no phenological report.*

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**



**Figure 3.1: Dekadal rainfall totals for dekad 33, 2018.**



**Figure 3.2: Dekadal rainfall distribution for dekad 33, 2018.**

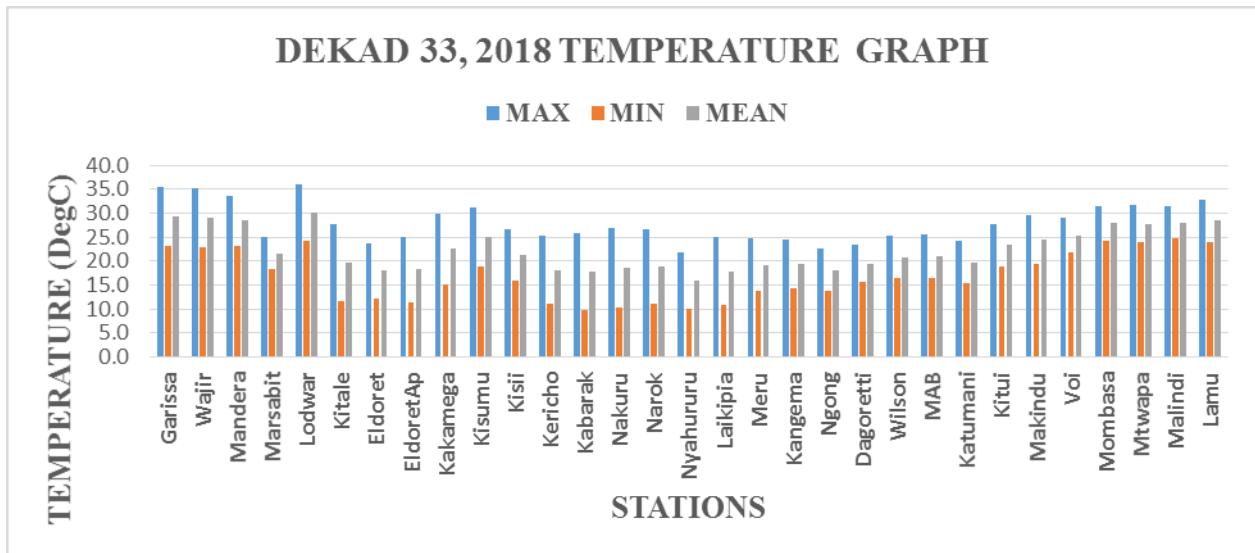


Figure 3.3: Maximum, Minimum and Average temperature for dekad 33, 2018.

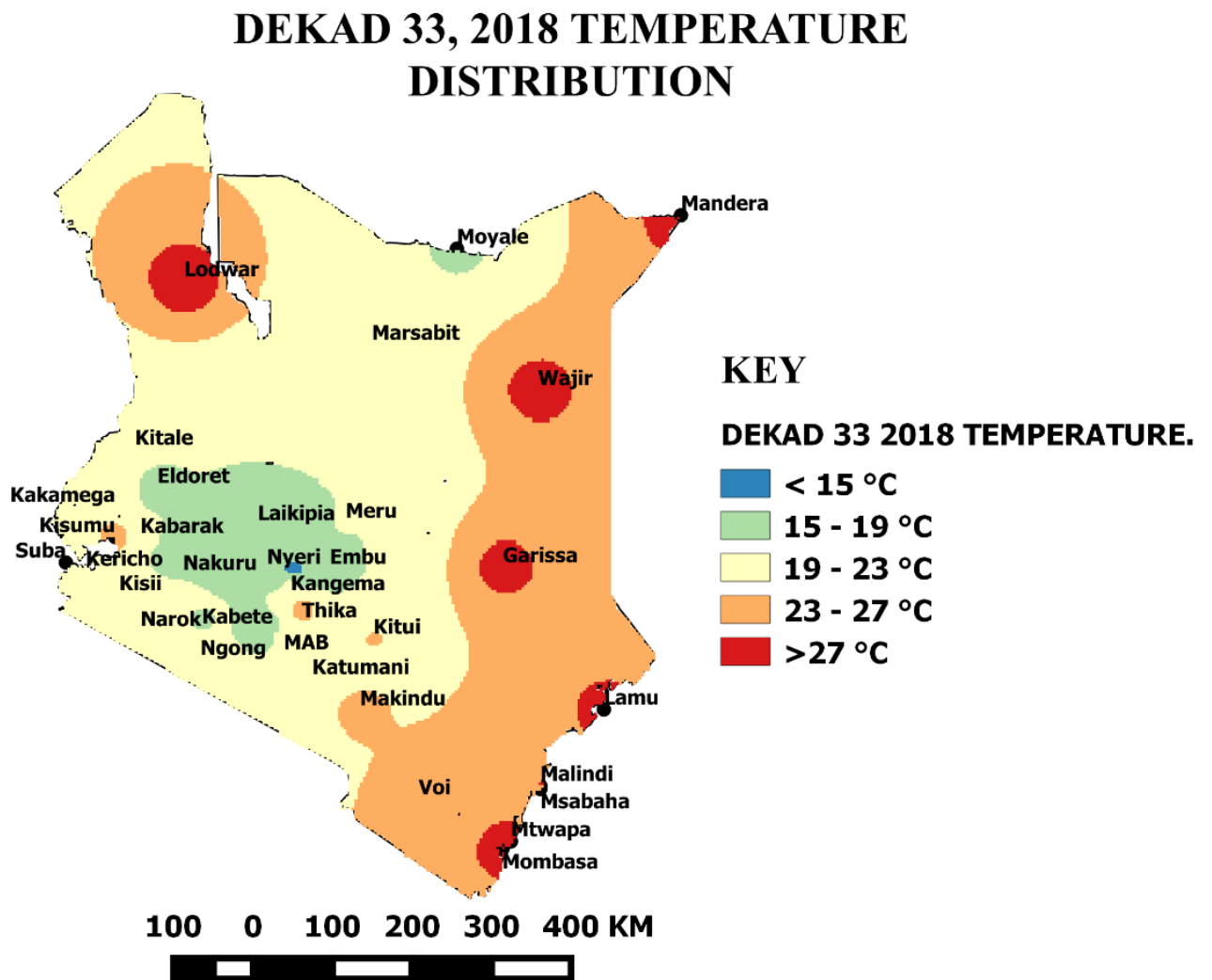


Figure 3.4: Mean temperature distribution for dekad 33, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;  
1<sup>ST</sup>– 10<sup>TH</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 mainly rains over few places throughout the forecast period. Afternoons/Evenings are expected to experience mainly showers and thunderstorms over several 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),** Mornings are expected to experience rains over few places throughout the forecast period. Afternoons/Evenings are expected to experience showers and thunderstorms over few places throughout the forecast period

*The expected rains 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 throughout the forecast period. The afternoons/evenings will experience showers over few places for the first 4 days of the forecast period, increasing to several places thereafter.

*The Showers will continue to benefit the 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 mainly rains over several places during the forecast period. Afternoon/evening are expected to experience showers over several places during the forecast period.

*The showers will continue to replenish 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 mainly rains over few places during the forecast period. Afternoon/Evening are expected to experience showers over several places throughout the forecast period.

*The wet conditions will continue having a positive effect on 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 the entire day throughout the forecast period.

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

For feedback or further guidance, Contact:

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