



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 32, 11<sup>TH</sup> - 20<sup>TH</sup> NOVEMBER, 2018.

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Rainfall activities increased both in intensity and in spatial distribution during the dekad. Meru station in Eastern region received the highest rainfall of 115.7mm, compared to 87.1mm reported at Kisii station in Nyanza region in the previous dekad. Kisumu station in Nyanza region received the highest rainfall amount of 96.8mm. North-Eastern region recorded the highest rainfall amount of 82.4 mm at Mandera station. Central region recorded the highest rainfall amount of 52.0 mm at Nyeri station. Matungu station in western region reported the highest rainfall amount of 51.8mm. Coastal region received the highest rainfall amount of 49.7mm at Voi station. Kericho station in Rift Valley region reported the highest rainfall amount of 38.4mm.; while Nairobi region reported the highest rainfall amount of 35.0mm at Dagoretti station.

Both Maximum and Minimum temperatures reduced in most stations during the dekad. The highest Maximum temperature of 36.6<sup>0</sup>C was recorded at Lodwar station in North Eastern region compared to 36.9<sup>0</sup>C recorded at the same station in the previous dekad.

Nyahururu station in Central region reported the lowest Minimum temperature of 7.3<sup>0</sup>C, compared to 7.7<sup>0</sup>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.

## CROP AND WEATHER REVIEW FOR DEKAD 32, 11<sup>TH</sup> – 20<sup>TH</sup> NOVEMBER, 2018.

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

The station recorded 12.5 mm of rainfall. The Mean air temperature reported was 22.3<sup>0</sup>C. There was no report on total Pan Evaporation and sunshine parameters.

*Beans were at harvest stage and in fair state; hence normal yield is expected.*

#### 2.1.2 Kisii

The station received total rainfall amount of 36.4mm. Mean air temperature recorded was 20.9<sup>0</sup>C. Total Pan Evaporation reported and sunshine parameter were 35.4mm and 8.0 hrs per day respectively.

*Maize was at flowering stage and in poor state; while Beans were at maturity 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 recorded 12.6 mm of rainfall. The Mean air temperature was 19.5°C. Total Pan Evaporation recorded was 38.1mm. There was no report on sunshine parameter.

*Maize harvesting is over.*

### **2.2.2 Eldoret – Kapsoya.**

The station received 4.4mm of rainfall. The Mean air temperature recorded was 18.4°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize harvesting is over in most farms.*

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

### **2.3.1 Nyeri**

The station recorded 52.0mm of rainfall. Sunshine duration recorded was 6.5hrs/day. 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 15.6mm 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 6.6 mm of rainfall. The mean air temperature recorded was 14.9°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize harvesting is underway in some farms.*

### **Dagoretti**

The station recorded 35.0mm of rainfall. The Mean air temperature was 19.5°C. Sunshine hrs reported were 7.3hr/day. There was no report on total Pan Evaporation parameter.

*No Phenological report.*

### **2.3.4 Thika**

The station reported 24.0mm of rainfall. Total Pan Evaporation was 35.0mm. There was no report on Mean Air Temperature.

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

## **EASTERN REGION.**

### **2.3.5 Embu**

The station recorded 29.2 mm of rainfall. There was no report on Mean Air Temperature and total Pan Evaporation.

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

### **2.3.6 Meru**

The station reported 115.7mm of rainfall. The mean air temperature recorded was 19.3<sup>0</sup>C. There was no report on total Pan Evaporation and sunshine duration parameters.

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

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

The station received 69.9mm of rainfall. Mean air temperature recorded was 20.5<sup>0</sup>C. There was no report on total Pan Evaporation and sunshine parameters.

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

## **2.4 COASTAL REGION.**

### **2.5.1 Msabaha**

The station reported dry conditions. Total Pan Evaporation was 46.5 mm. There was no report on Mean Air Temperature and sunshine duration.

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

### **2.5.2 Mtwapa**

The station received 6.0mm of rainfall. The Mean Air temperature recorded was 27.2<sup>0</sup>C. There was no report on total Pan Evaporation and sunshine duration.

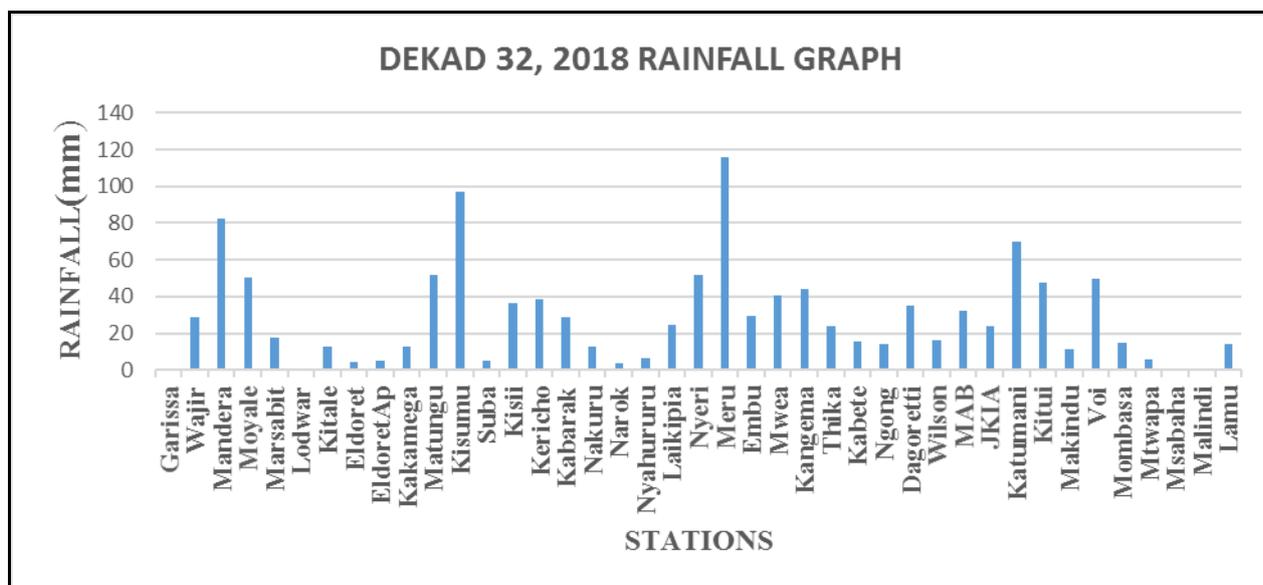
*Maize and Beans were in emergence stage and in fair state. Mangoes are in dormant stage.*

### **2.5.3 Lamu**

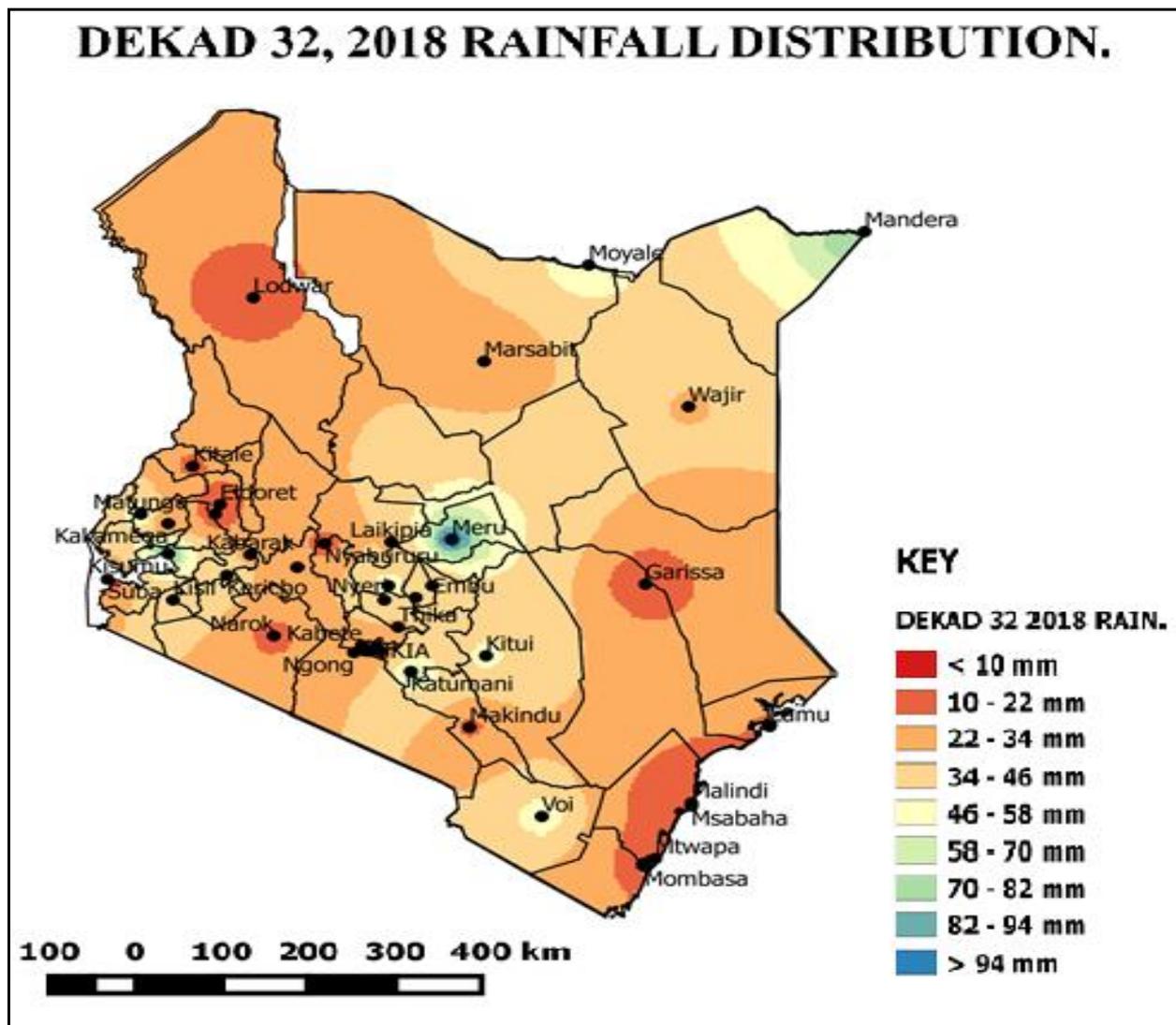
The station recorded 14.0mm of rainfall. Mean air temperature recorded was 28.4 °C. There was no report on total Pan Evaporation and sunshine parameters.

*There was no phenological report.*

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**



**Figure 3.1: Dekadal rainfall totals for dekad 32, 2018.**



**Figure 3.2: Dekadal rainfall distribution for dekad 32, 2018.**

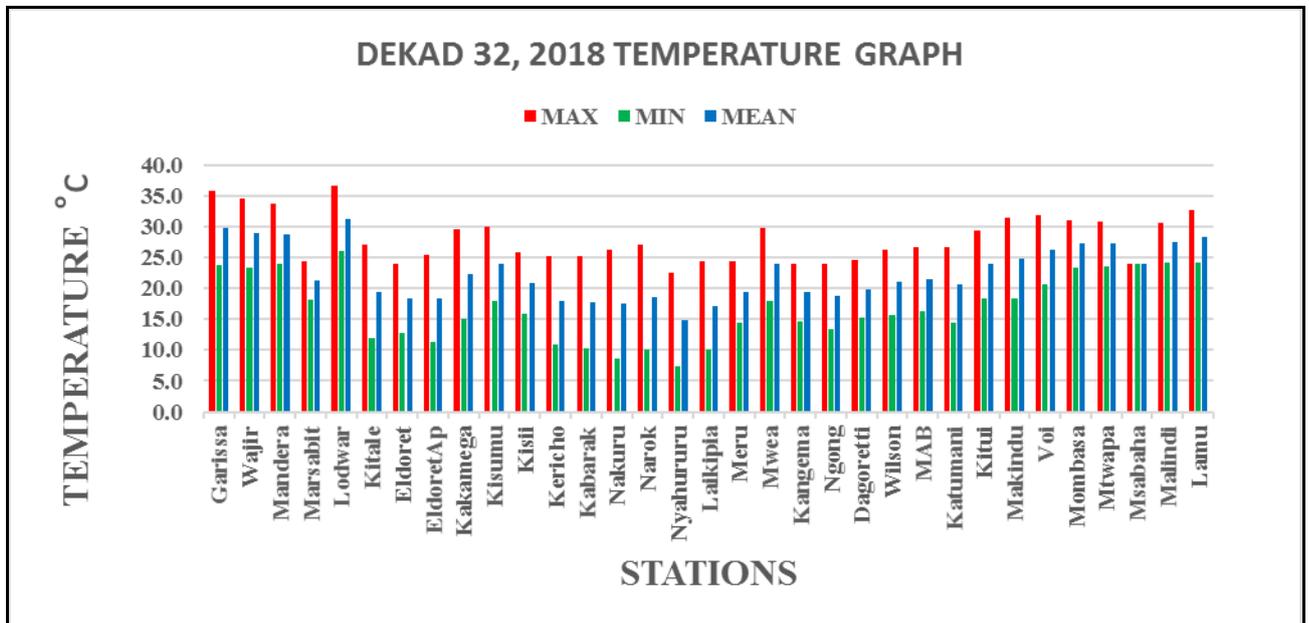


Figure3.3: Maximum, Minimum and Average temperature for dekad 32, 2018.

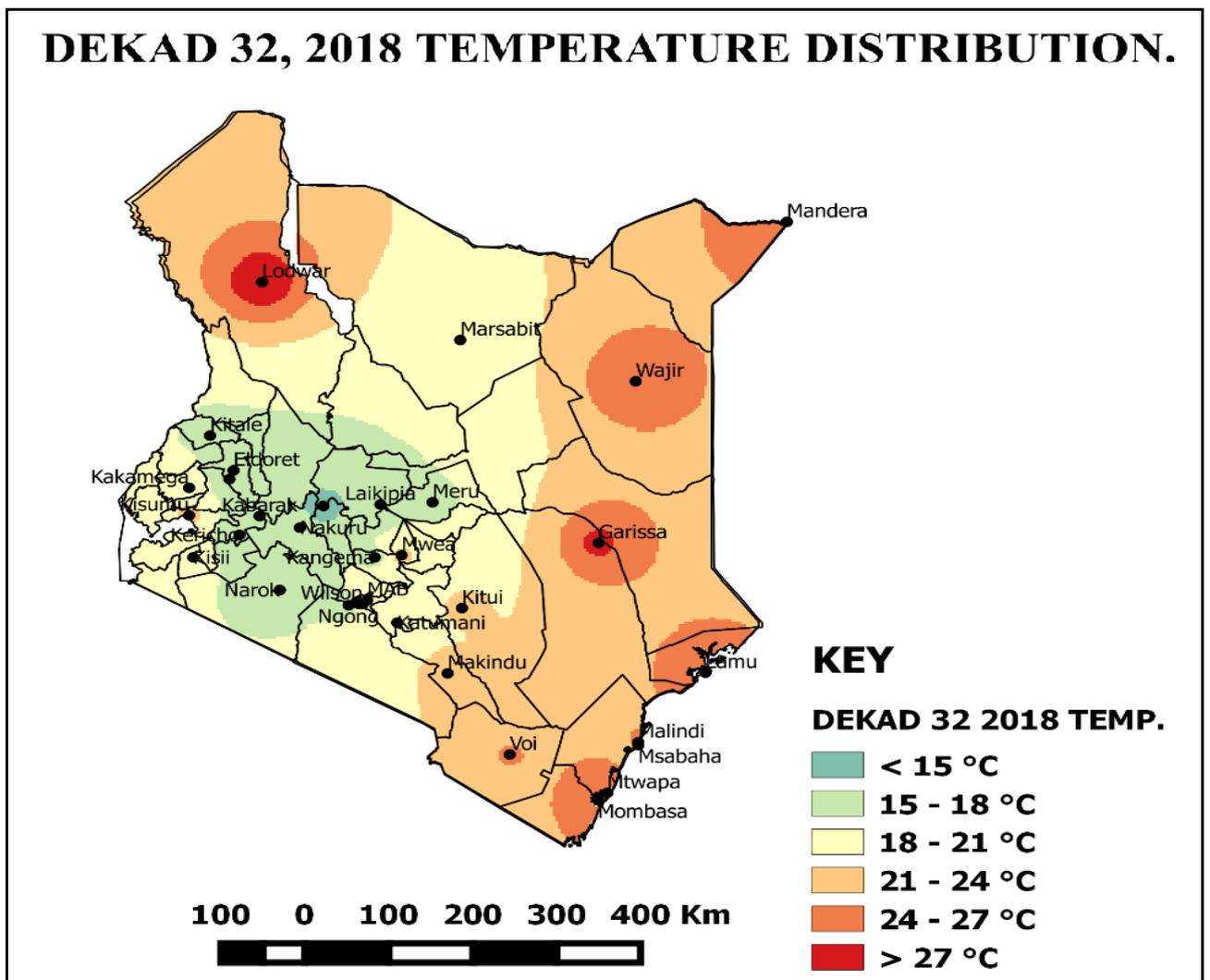


Figure 3.4: Mean temperature distribution for dekad 32, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;  
21<sup>ST</sup>– 30<sup>TH</sup>, NOVEMBER 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 sunny intervals throughout the forecast period. Afternoons/Evenings are expected to experience showers and thunderstorms over several places for the first 2 days during the forecast period, reducing to few places thereafter.

*The showers will continue to benefit the crops that are still at flowering stage in places like Kisii.*

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

*The sunny intervals will negatively impact on 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 mainly cloudiness breaking into sunny intervals throughout the forecast period. The afternoons/evenings will experience showers over few places for the first 2 days of the forecast period, reducing to few places for the next 3 days, followed by sunny intervals thereafter.

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

**North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** Mornings are expected to experience mainly rains over few places during the forecast period. Afternoon/evening are expected to experience mainly showers over few places during the forecast period.

*The showers will replenish the pasture for the animals kept in this region.*

**South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui,** Are expected to experience rains over few places for the first 4 days of the forecast period, followed by sunny intervals thereafter.

*The rains will benefit the crops that are still 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 showers over few places the entire day for the first 4 days of the forecast period, followed by sunny intervals the entire day thereafter.

*The showers will have a positive impact to the crops that are in emergence stage in this region.*

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