



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 30, 21<sup>ST</sup> –31<sup>ST</sup> OCTOBER, 2018.

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Rainfall activities increased drastically both in intensity and in spatial distribution in most stations countrywide. The highest rainfall was received in Coastal region with Mombasa, Mtwapa, Msabaha, Lamu and Malindi stations recording 257.5, 184.7, 113.3, 108.8 and 105.6mm respectively; compared to 75.7mm reported at Kakamega station in Western region in the previous dekad. Kabete station in Nairobi region received the highest rainfall amount of 89.0mm. North Eastern region recorded the highest rainfall amount of 83.9 and 76.7mm at Marsabit and Moyale stations respectively. Central region recorded the highest rainfall amount of 73.1 mm at Nyeri station. Meru station in Eastern region reported the highest rainfall amount of 53.8mm. Nyanza region received the highest rainfall amount of 51.8 mm at Kisumu station. Matungu station in Western region recorded the highest rainfall amount of 47.0 mm; while Rift Valley region reported highest rainfall amount of 28.4 mm at Kitale station.

Both Maximum and Minimum temperatures decreased drastically in most stations. The highest Maximum temperature of 35.8<sup>0</sup>C was recorded at Lodwar station in North Eastern region compared to 36.8<sup>0</sup>C recorded at the same station in the previous dekad.

Nyahururu station in Central region reported the lowest Minimum temperature of 7.7<sup>0</sup>C compared to 7.9<sup>0</sup>C recorded 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 30, 21<sup>ST</sup> – 31<sup>ST</sup> OCTOBER, 2018.

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

The station recorded 23.0 mm of rainfall. The Mean air temperature reported was 21.6<sup>0</sup>C. There was no report on total Pan Evaporation and sunshine parameters.

*Beans were at flowering stage and in good state; hence normal yield is expected.*

#### 2.1.2 Kisii

The station reported total rainfall amount of 32.7mm. Mean air temperature recorded was 20.5<sup>0</sup>C. The total Pan Evaporation recorded and the sunshine parameter were 40.7mm and 6.2 hrs / day respectively.

*Maize was at emergence stage and in fair state; while the Beans were at flowering stage and in poor state as they have been invaded by black aphids.*

## **2.2 RIFT VALLEY REGION.**

### **2.2.1 Kitale.**

The station recorded 28.4 mm of rainfall. The Mean air temperature was 19.4°C. There was no report on total Pan Evaporation.

*Some farmers have not yet finished harvesting their maize crop.*

### **2.2.2 Eldoret – Kapsoya.**

The station recorded 3.2mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 17.7°C and 62.2mm respectively.

*Some farmers have started Maize harvesting.*

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

### **2.3.1 Nyeri**

The station recorded 73.1mm of rainfall. Sunshine duration was 5.1 hrs/day. There was no report on Mean air temperature and total Pan Evaporation.

*Maize and beans are in germination stage.*

### **2.3.2 Kabete**

The station received 89.0mm of rainfall. The total Pan Evaporation reported was 50.1mm, there was no report on mean air temperature and sunshine duration.

*Maize and Beans are in emergence stage and in good state.*

### **2.3.3 Nyahururu**

The station received 13.0 mm of rainfall. The mean air temperature recorded was 14.6°C. There was no report on total Pan Evaporation and sunshine parameters.

*Maize was still at maturity stage and in good state hence the expected yield is above normal.*

### **2.3.4 Dagoretti**

The station recorded 26.4 mm of rainfall. The Mean air temperature and total Pan Evaporation were 18.1°C and 32.9mm respectively.

*No Phenological report.*

### **2.3.5 Thika**

The station reported 34.7mm of rainfall. Total Pan Evaporation was 40.7mm. There was no report on Mean Air Temperature.

*Most farmers have planted their Maize and Beans crops.*

## **2.4 EASTERN REGION.**

### **2.4.1 Embu**

The station recorded 44.6 mm of rainfall. The total Pan Evaporation was 36.5mm. There was no report on Mean Air Temperature.

*Farmers have finished planting maize and beans crops.*

### **2.4.2 Meru**

The station reported 53.8mm of rainfall. The mean air temperature recorded was 19.4°C. There was no report on total Pan Evaporation and sunshine duration parameters.

*Farmers have started planting their Maize and beans crops.*

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

The station reported 11.5mm of rainfall. Mean air temperature and total Pan Evaporation recorded were 19.5°C and 48.7mm respectively.

*Most farmers have started planting their Maize and Beans crops for this season.*

## **2.5 COASTAL REGION.**

### **2.5.1 Msabaha**

The station received 113.2 mm of rainfall. The total Pan Evaporation was 45.2 mm. There was no report on Mean Air Temperature.

*Some farmers have started planting their Maize and Beans crops.*

### **2.5.2 Mtwapa**

The station received 184.7 mm of rainfall. The Mean Air temperature and total Pan Evaporation reported were 26.1 °C and 50.2 mm respectively.

*Some farmers have started planting their Maize and Beans crops. Mangoes are in dormant stage.*

### **2.5.3 Lamu**

The station recorded 108.8 mm of rainfall. The Mean air temperature recorded was 26.7 °C. There was no report on total Pan Evaporation.

*There was no phenological report.*

ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

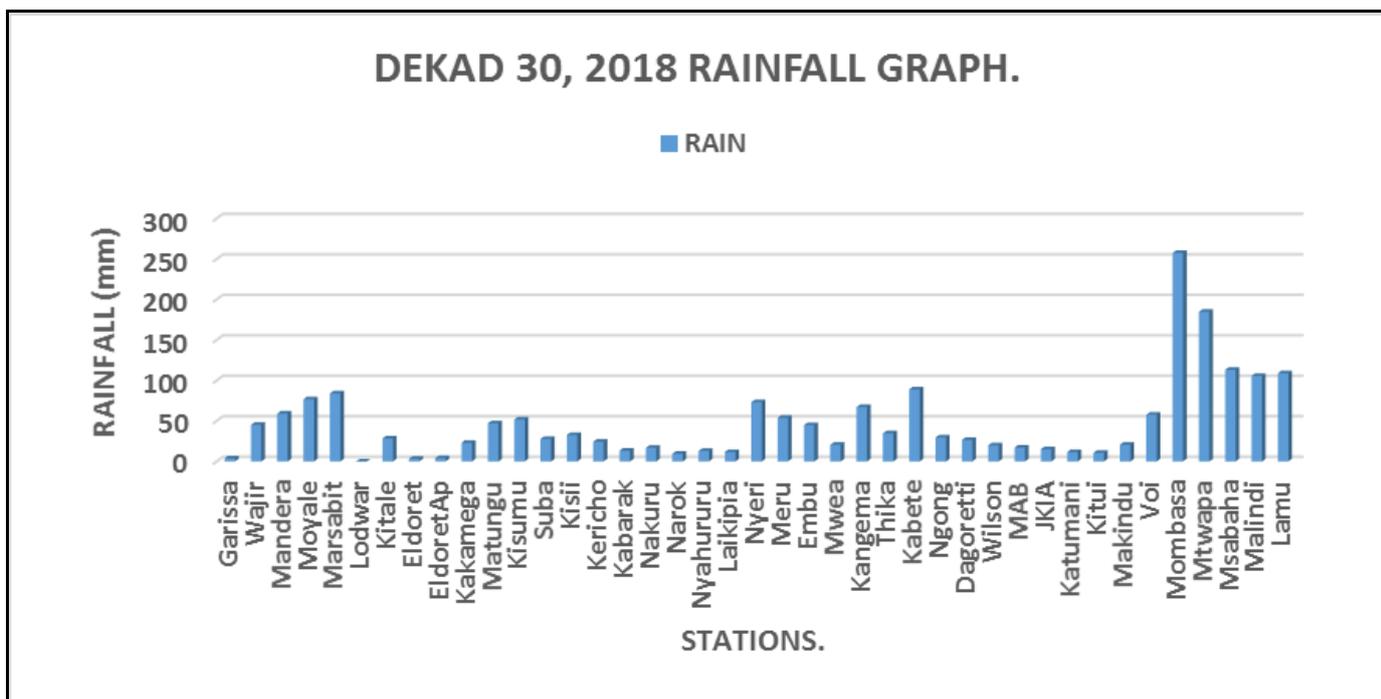


Figure 3.1: Dekadal rainfall totals for dekad 30, 2018.

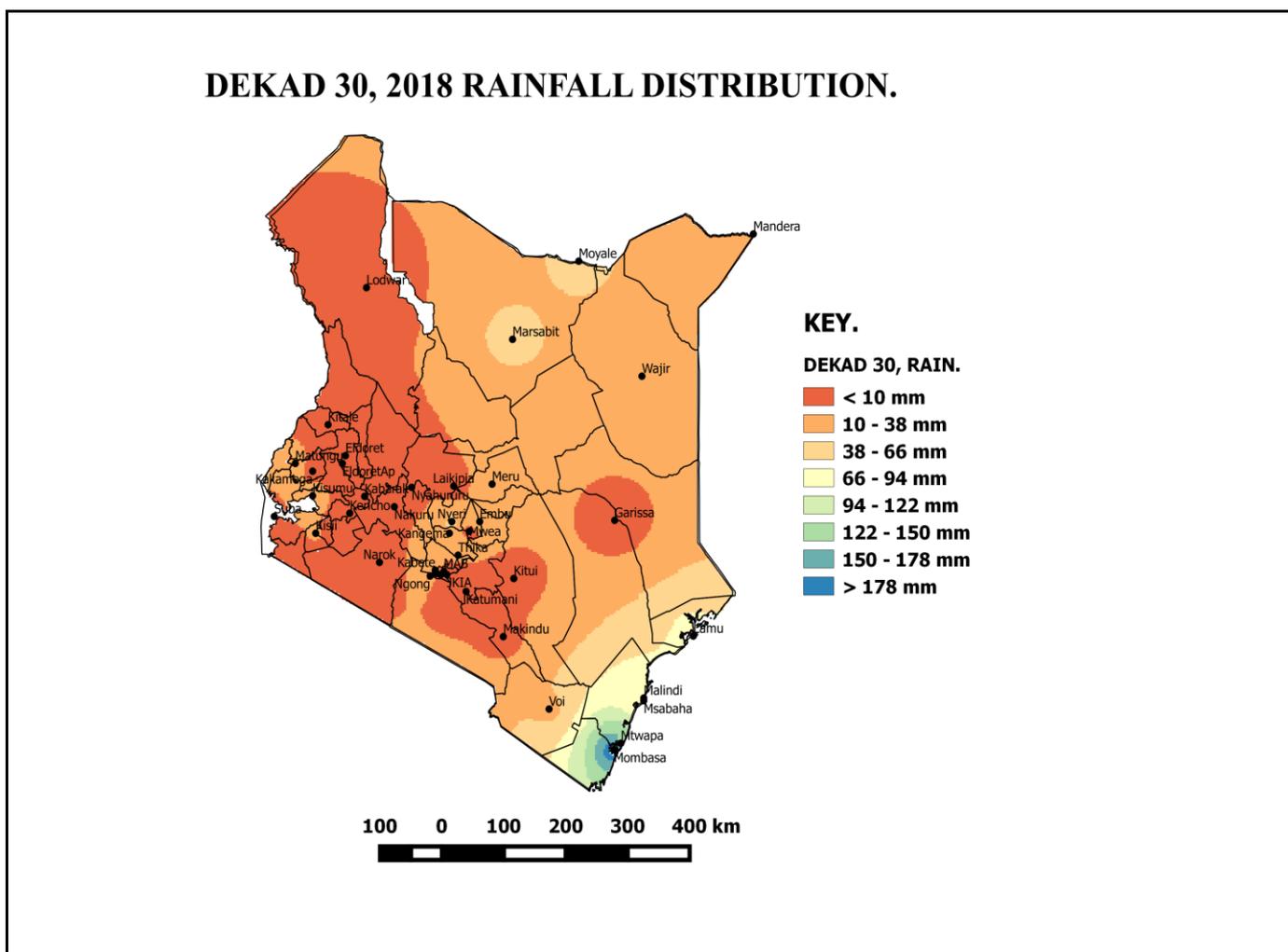


Figure 3.2: Dekadal rainfall distribution for dekad 30, 2018.

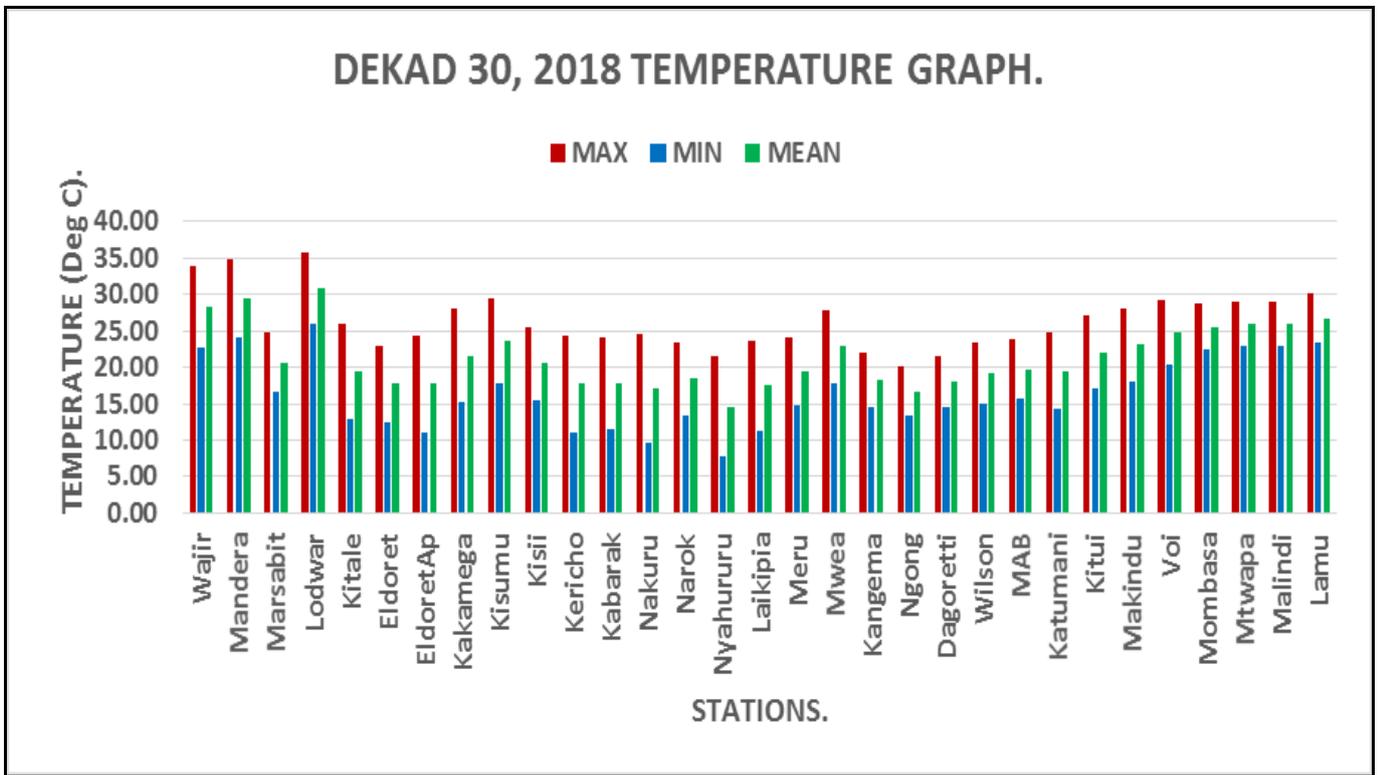


Figure 3.3: Maximum, Minimum and Average temperature for dekad 30, 2018.

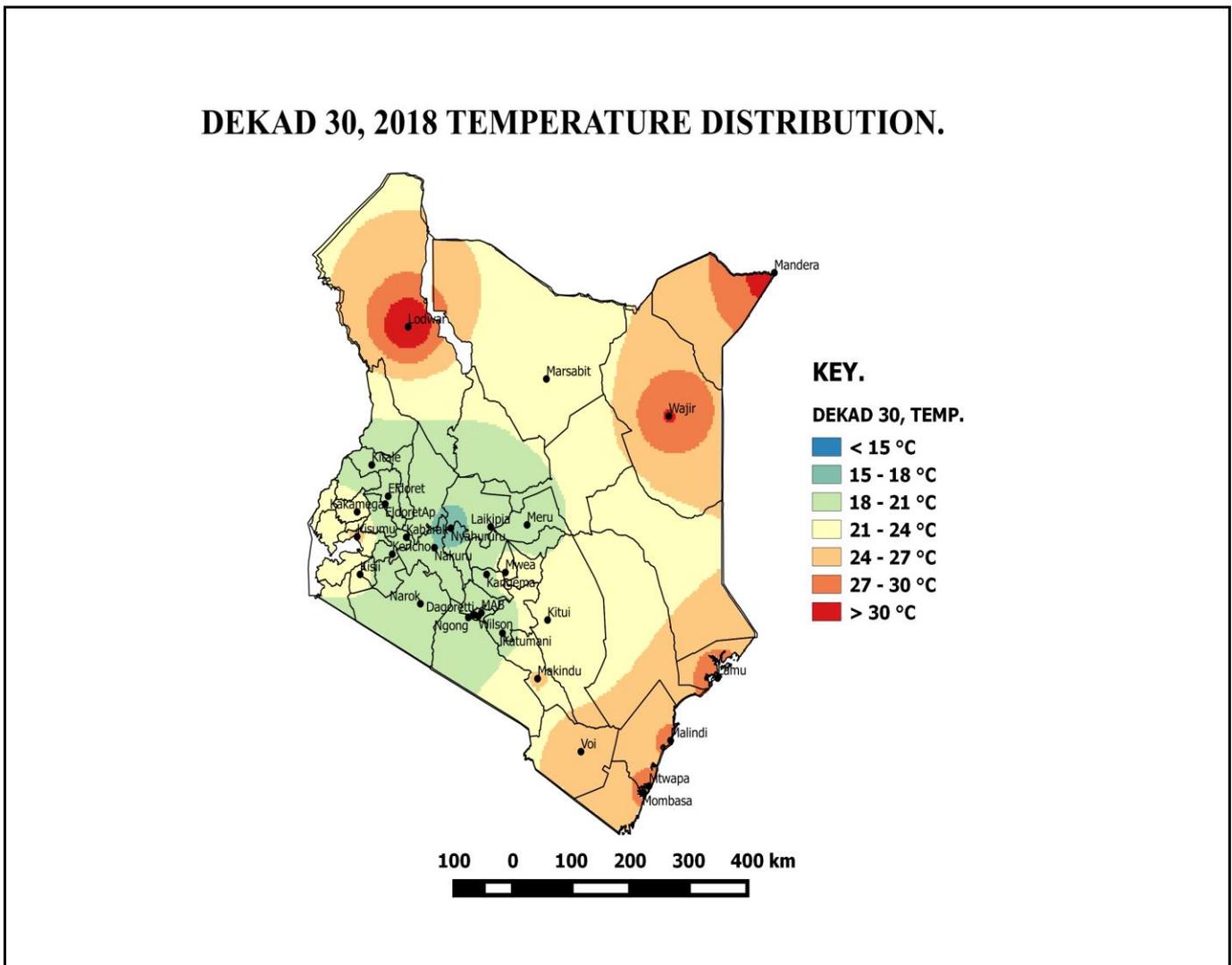


Figure 3.4: Mean temperature distribution for dekad 30, 2018.

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

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

**The North-western counties (Turkana, West Pokot and Samburu),** mornings are expected to experience sunny intervals during the forecast period. Afternoons/Evenings are expected to experience mainly showers and thunderstorms on the 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> day of the forecast period except on the 3<sup>rd</sup> and 7<sup>th</sup> day when sunny intervals are expected.

*The wet conditions will have a positive effect 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 except on the 3<sup>rd</sup> day when rains over few places are expected. The afternoons/evenings will experience mainly showers over few places during the forecast period.

*The Showers will benefit the maize that are at maturity stage in Nyahururu and emergence stage in Nyeri.*

**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 benefit 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 sunny intervals except on the third day when rains over few places are expected. Afternoons /evenings are expected to experience mainly showers over few places during the forecast period.

*The wet conditions will benefit the crops that are being planted 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 in the morning during the forecast period. Afternoons/Evenings are expected to experience mainly sunny intervals except on the 2<sup>nd</sup> day when there will be showers over few places.

*The showers will benefit the seeds that have been planted and the fruits in this region.*

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