



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 28, 1<sup>ST</sup> -10<sup>TH</sup> OCTOBER, 2018.

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Rainfall activities decreased both in intensity and in spatial distribution countrywide. The Western region recorded the highest rainfall amount of 91.5 mm at Kakamega station compared to 150.6 mm of rainfall received at Mombasa station in the Coastal region in the previous dekad. Kisumu station in the Nyanza region recorded the highest rainfall amount of 70.6 mm. Nairobi region reported the highest rainfall amount of 53.3 mm at Dagoretti station. The Central region recorded the highest rainfall amount of 38.4 mm at Laikipia station. Kericho station in the Rift Valley region reported the highest rainfall amount of 28.0 mm. Coastal region received the highest rainfall amount of 12.3 mm at Msabaha station. Katumani station in the Eastern region recorded the highest rainfall amount of 12.0 mm. North Eastern region received the highest rainfall amount of 1.01 mm at Moyale station.

Both Maximum and Minimum temperatures increased in most stations. The highest Maximum temperature of 36.3<sup>0</sup>C was recorded at Mandera station. Nyahururu station in Central region continued to report the lowest Minimum temperature of 6.8<sup>0</sup>C compared to 6.0<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 28, 1<sup>ST</sup> - 10<sup>TH</sup> OCTOBER, 2018.

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

The station recorded 91.5 mm of rainfall. The Mean air temperature reported was 22.0<sup>0</sup>C. There was no report on Total Pan Evaporation and sunshine parameters.

*Beans were at flowering stage and in good state.*

#### 2.1.2 Kisii

The station reported total rainfall amount of 70.1 mm. The Mean air temperature recorded was 21.7<sup>0</sup>C. The Total Pan Evaporation recorded was 38.6 mm and there was no sunshine parameter

*Both Maize and Beans are at emergence stage and in fair state though the beans have been invaded by black aphids as there is too much sun.*

## **2.2 RIFT VALLEY REGION.**

### **2.2.1 Kitale.**

The station recorded 14.6 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 19.8°C and 37.6 mm respectively.

*Farmers are still harvesting maize and the expected yield is normal.*

### **2.2.2 Eldoret - Kapsuya**

The station recorded 0.8 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 18.1°C and 54.8 mm respectively.

*Maize was at harvesting stage and in fair state, hence normal yield is expected.*

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

### **2.3.1 Nyeri**

The station received 1.6mm of rainfall. Sunshine duration was 7.4 hrs/day. There was no report on Mean air temperature and Total Pan Evaporation.

*Land preparations are almost complete as farmers eagerly wait for the short rains onset.*

### **2.3.2 Kabete**

The station received 25.6 mm of rainfall. The Total Pan Evaporation reported was 45.6 mm and there was no report on mean air temperature and sunshine duration.

*Farmers are waiting for the onset of the short rains season to start planting.*

### **2.3.3 Nyahururu**

The station received 16.1 mm of rainfall. The mean air temperature recorded was 15.0. °C. There was no report on Total Pan Evaporation and sunshine parameters.

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

### **2.3.4 Dagoretti**

The station recorded 53.3 mm of rainfall. The Mean air temperature and was 19.5°C. There was no report on Total Pan Evaporation.

*No Phenological report.*

### **2.3.5 Thika**

The station reported 2.0 mm of rainfall. The Total Pan Evaporation reported was 48.5 mm .There was no report on Mean Air Temperature.

*Farmers are preparing their land for planting in the next short rain season.*

## **2.4 EASTERN REGION.**

### **2.4.1 Embu**

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

*Farmers are preparing their land for the next planting season.*

### **2.4.2 Meru**

The station recorded 2.8mm of rainfall. The mean air temperature and Total Pan Evaporation recorded were 20.0<sup>0</sup>C and 50.8 mm respectively .There was no report on sunshine duration.

*Farmers are still preparing their land for the next planting season.*

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

The station reported 12.0 mm. The Total Pan Evaporation recorded was 58 mm and there was no mean air temperature.

*Farmers are preparing their land for the next planting season.*

## **2.5 COASTAL REGION.**

### **2.5.1 Msabaha**

The station received 12.3 mm of rainfall. The Total Pan Evaporation was 41.8 mm. There was no report on Mean Air Temperature.

*Maize harvesting is complete.*

### **2.5.2 Mtwapa**

The station received 11.5 mm of rainfall. The Mean Air temperature and The Total Pan Evaporation reported were 26.5 °C 57.5 mm respectively.

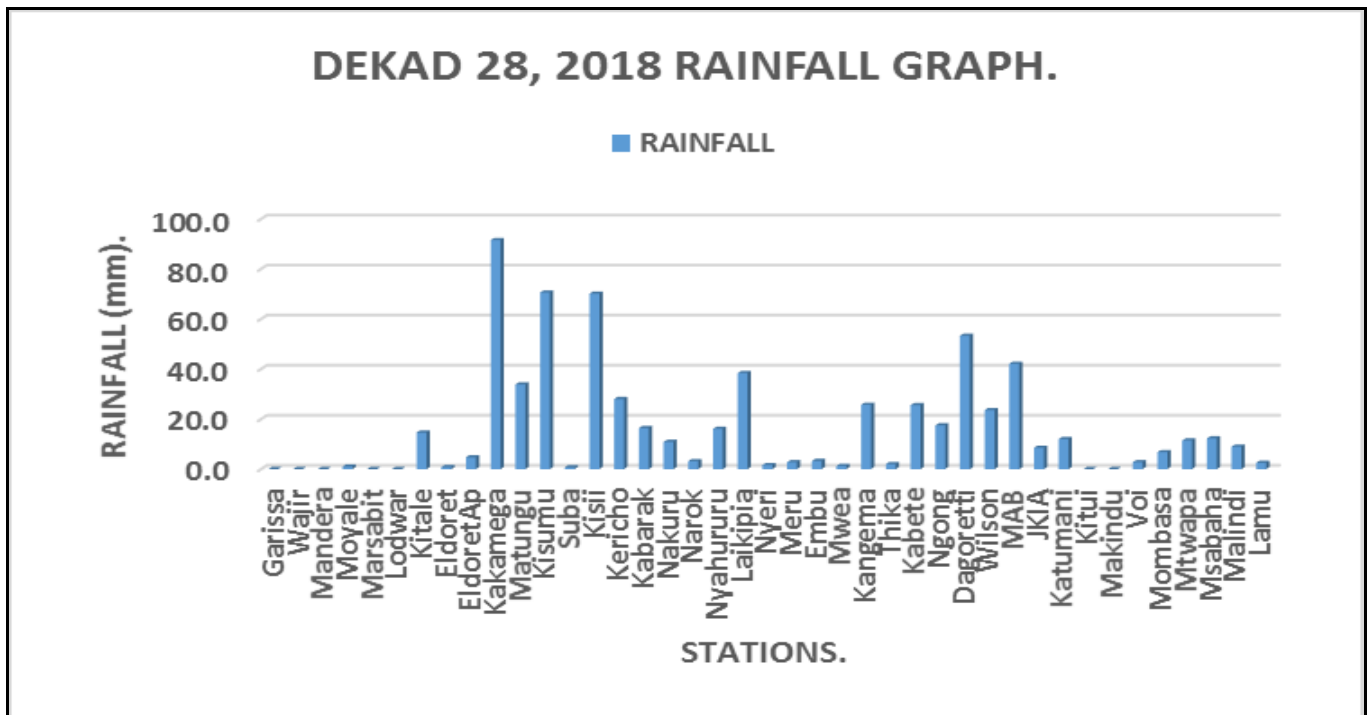
*Farmers have harvested their maize and are preparing the land for next season  
Planting.*

### **2.5.3 Lamu**

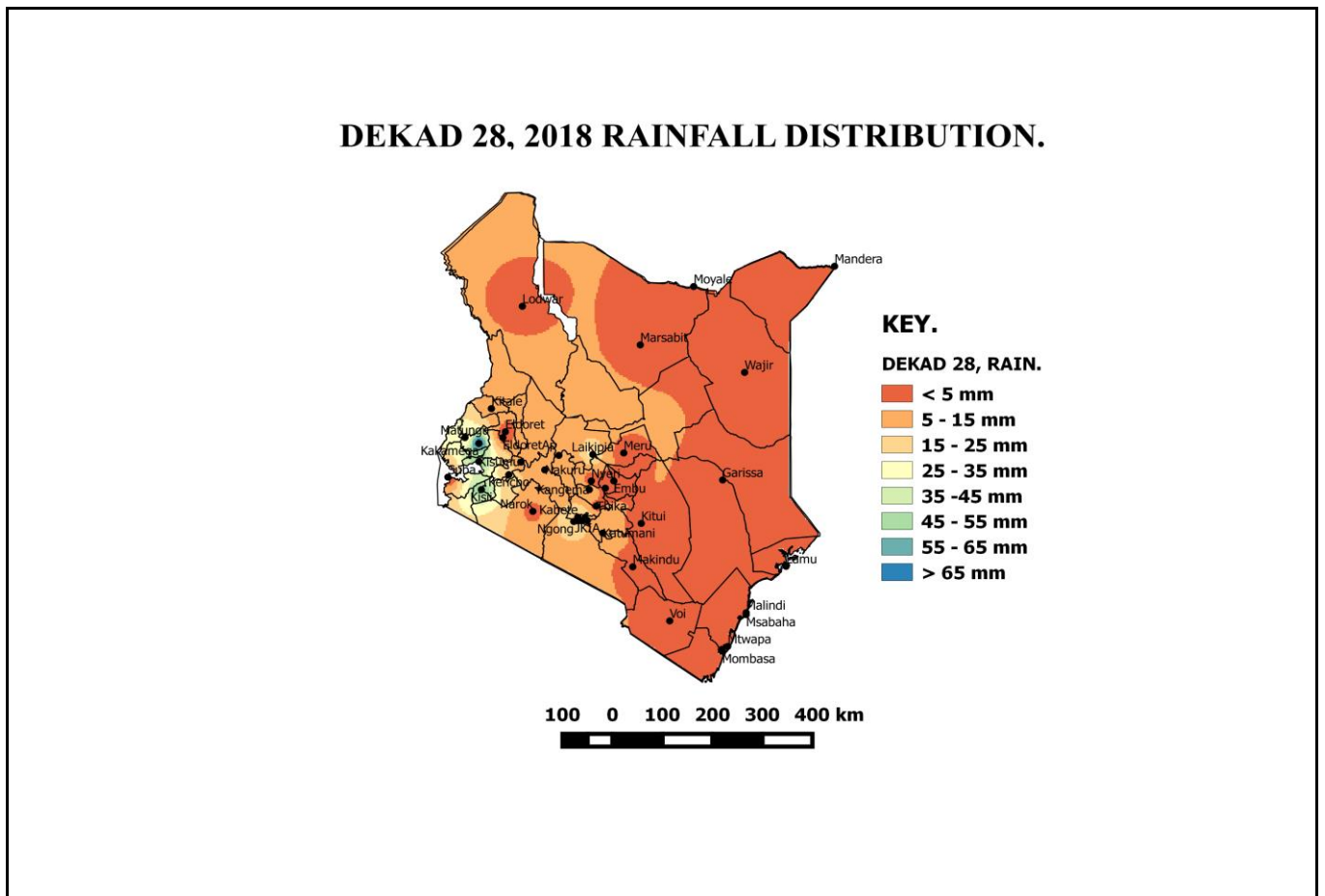
The station recorded 12.1 mm of rainfall. The Mean air temperature recorded was 27.1 °C. There was no report on Total Pan Evaporation.

*There was no phenological report.*

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**



**Figure 3.1: Dekadal rainfall totals for dekad 28, 2018.**



**Figure 3.2: Dekadal rainfall distribution for dekad 28, 2018.**

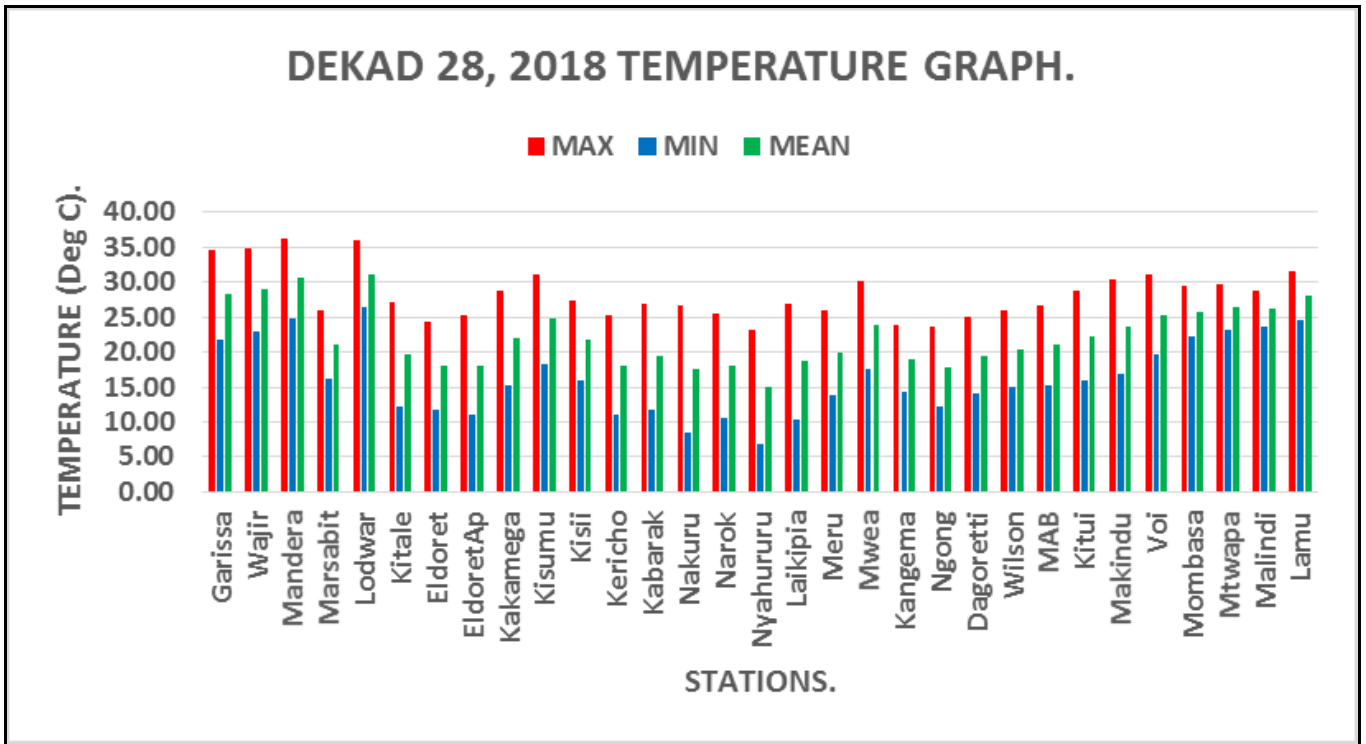


Figure3.3: Maximum, Minimum and Average temperature for dekad 28, 2018.

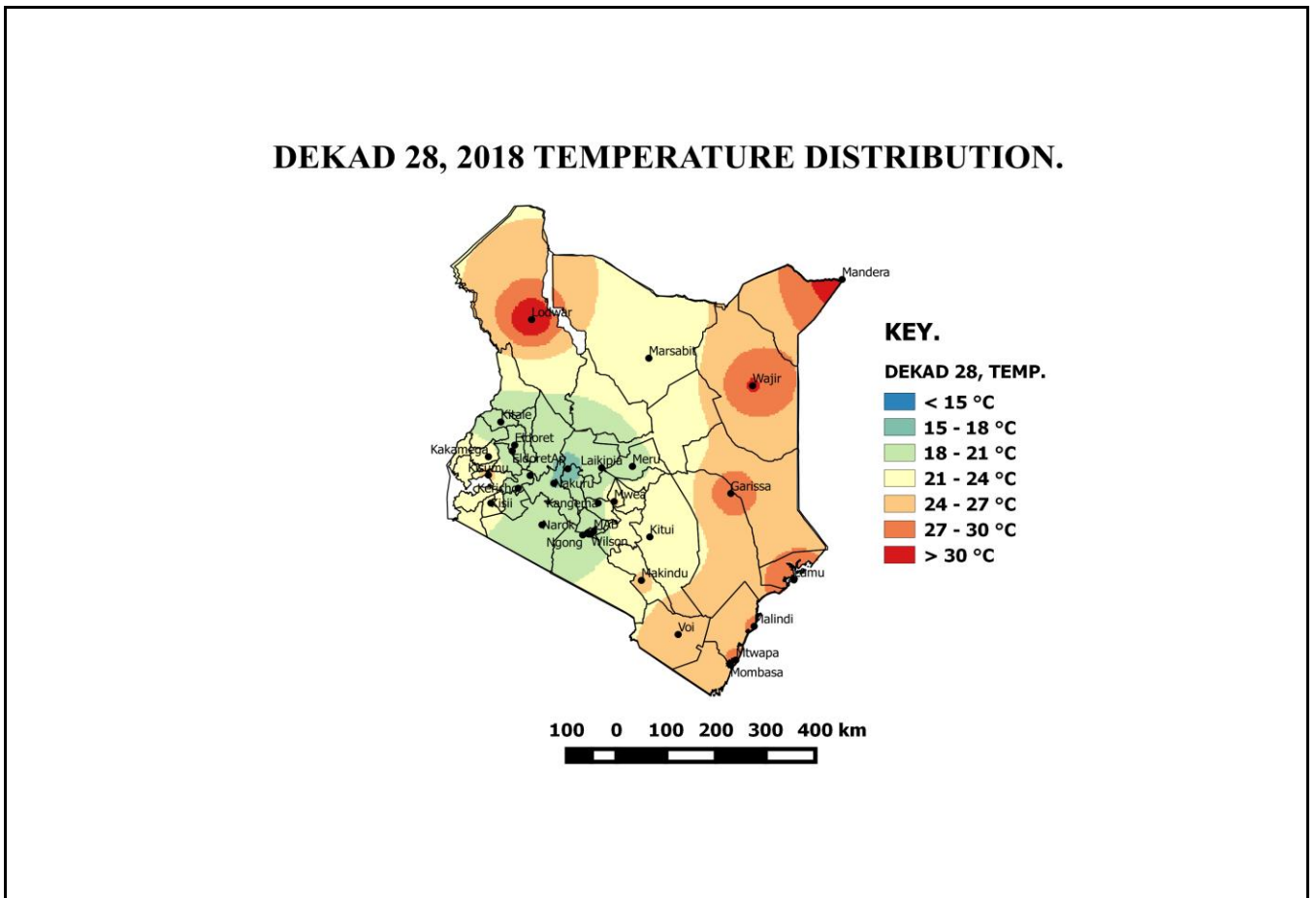


Figure 3.4: Mean temperature distribution for dekad 28, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;  
11<sup>TH</sup> – 20<sup>TH</sup> OCTOBER 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 several places during the forecast period.

*The showers will benefit the crops that are in emergence and flowering 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 conditions will continue to have a negative 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 sunny intervals the entire day during the forecast period except on the second and third day when there will be a possibility of rains over few places. The afternoons/evenings will experience a possibility of showers over few places during the forecast period.

*The Showers will benefit the maize that is at maturity stage in Nyahururu.*

**North-Eastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience sunny intervals the entire day throughout the forecast period except on the seventh day when there will be a possibility of showers over few places.

*The sunny conditions will have a negative effect on the pasture for the animals kept in this region.*

**South-Eastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui, are** expected to experience sunny intervals the entire day throughout the forecast period.

*The sunny conditions will have a negative effect on the vegetation for the animals kept in this region.*

**Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.)** are expected to experience mainly sunny intervals the entire day during the forecast period except on the seventh day when there is a possibility of showers over few places in the morning.

*The showers will benefit the fruits planted in this area.*

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