



# KENYA METEOROLOGICAL DEPARTMENT DEKADAL AGROMETEOROLOGICAL BULLETIN

WEATHER AND CROP REVIEW FOR DEKAD 27, 21<sup>ST</sup>–30<sup>TH</sup> SEPTEMBER, 2018.

## HIGHLIGHTS ON RAINFALL AND TEMPERATURE.

Rainfall activities increased both in intensity and in spatial distribution countrywide. The Coastal region recorded the highest rainfall amount of 150.6 mm at Mombasa station compared to 59.7mm of rainfall received at Matungu station in the Western region in the previous dekad. Matungu station in the Western region recorded the highest rainfall amount of 49.0mm. Rift Valley region reported the highest rainfall amount of 34.1 mm at Kericho station. The Central region recorded the highest rainfall amount of 25.3 mm at Kangema station. Moyale station in the North Eastern region reported the highest rainfall amount of 19.7mm. Nyanza region received the highest rainfall amount of 19.1mm received at Suba station. Meru station in the Eastern region recorded the highest rainfall amount of 15.6mm. Nairobi region received the highest rainfall amount of 6.9 mm at Kabete station.

Maximum and Minimum temperatures decreased and increased drastically respectively in most stations. The highest Maximum temperature of 36.4<sup>0</sup>C was recorded at Lodwar station in North Eastern region compared to 36.6<sup>0</sup>C reported at Mandera station in the same region in the previous dekad.

Nyahururu station in Central region continued to report the lowest Minimum temperature of 6.0<sup>0</sup>C compared to 4.9<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 27, 21<sup>ST</sup> – 30<sup>TH</sup> SEPTEMBER, 2018.

### 2.1 NYANZA AND WESTERN REGIONS

#### 2.1.1 Kakamega

The station recorded 35.7 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 emergence stage and in good state.*

#### 2.1.2 Kisii

The station reported total rainfall amount of 15.1mm. The Mean air temperature recorded was 21.6<sup>0</sup>C. The Total Pan Evaporation recorded was 43.6mm and there was no sunshine parameter

*Both Maize and Beans are at emergence stage and in fair state.*

## **2.2 RIFT VALLEY REGION.**

### **2.2.1 Kitale.**

The station recorded 21.3 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 19.6°C and 37.4 mm respectively.

*Farmers have started harvesting maize and the expected yield is normal.*

### **2.2.2 Eldoret - Kapsoya**

The station recorded 3.3 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 17.6°C and 59.8 mm respectively.

*Maize was at maturity 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 9.9 mm of rainfall. There was no report of Mean air temperature. Sunshine duration was 7.3 hrs/day.

*Farmers are now preparing the land in readiness for the short rains season.*

### **2.3.2 Kabete**

The station received 6.9 mm of rainfall. The Total Pan Evaporation reported was 43.9 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 15.9 mm of rainfall. The mean air temperature recorded was 14.6°C. There was no report on Pan Evaporation and sunshine parameters.

*Maize was still at flowering stage and in excellent state hence the expected yield is above normal*

### **2.3.4 Dagoretti**

The station recorded 4.2 mm of rainfall. The Mean air temperature and was 19.5°C. There was no report on Pan Evaporation.

*No Phenological report.*

### **2.3.5 Thika**

The station reported dry conditions. The Total Pan Evaporation reported was 46.5 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 12.5 mm of rainfall. The Total Pan Evaporation recorded was 38 mm. There was no report on Mean Air Temperature.

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

### **2.4.2 Meru**

The station recorded 15.6 mm of rainfall. The mean air temperature recorded was 20.1<sup>0</sup>C .There was no report on sunshine duration and total pan evaporation

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

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

The station reported dry conditions. The Total Pan Evaporation recorded was 58.0 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 92.3 mm of rainfall. There was no report on Mean Air Temperature and Total Pan Evaporation.

*Maize harvesting is complete.*

### **2.5.2 Mtwapa**

The station received 91.2 mm of rainfall. The Mean Air temperature reported were 25.8 °C. There was no report on Pan Evaporation.

*Maize was at harvesting stage and in fair state, though it had been affected by Army worms and stalk borer, but still the expected yield is normal.*

### **2.5.3 Lamu**

The station recorded 13.2 mm of rainfall. The Mean air temperature recorded was 27.7 °C. There was no report on Total Pan Evaporation.

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

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**

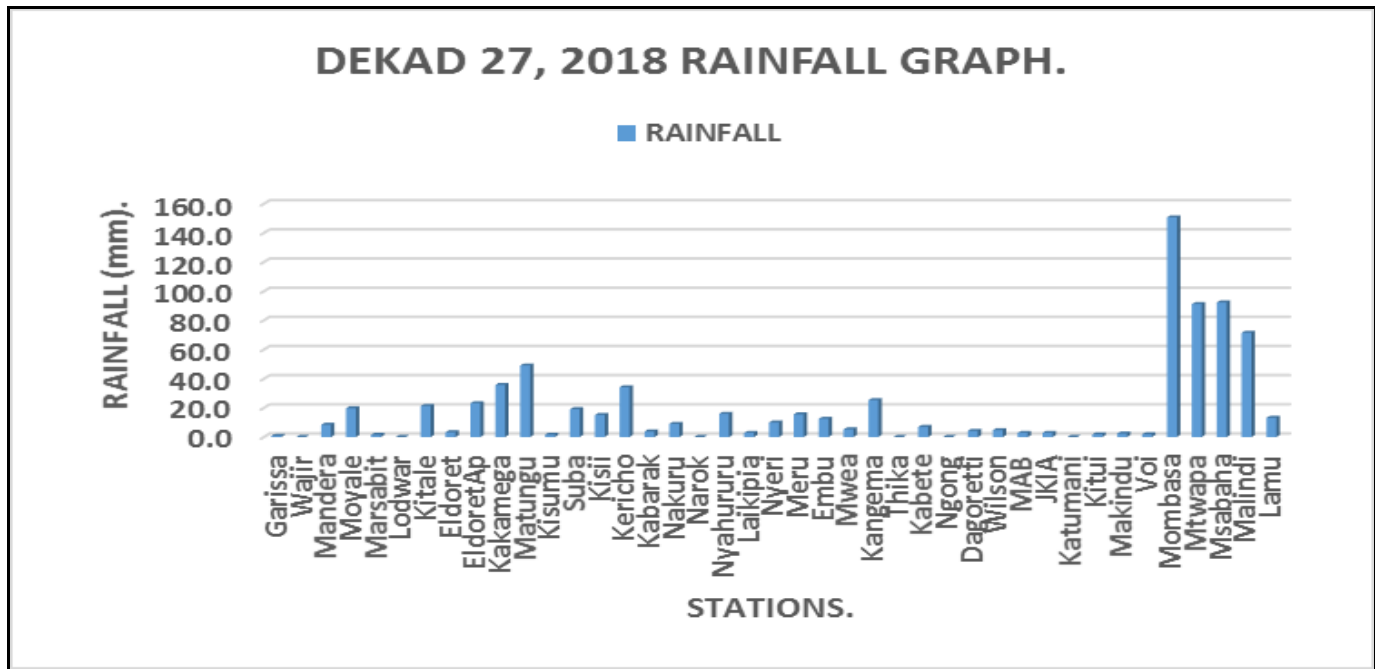


Figure 3.1: Dekadal rainfall totals for dekad 27, 2018.

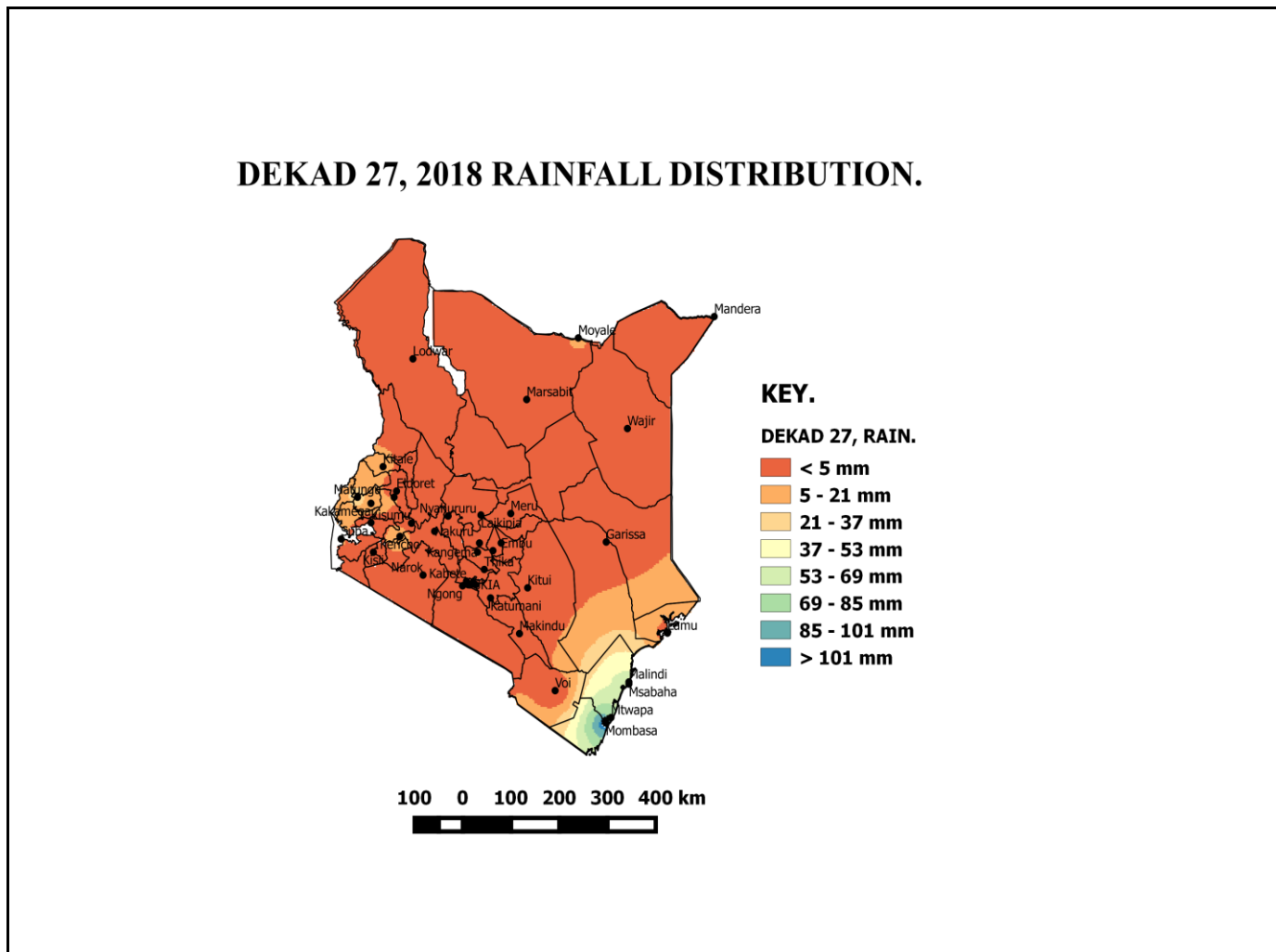


Figure 3.2: Dekadal rainfall distribution for dekad 27, 2018.

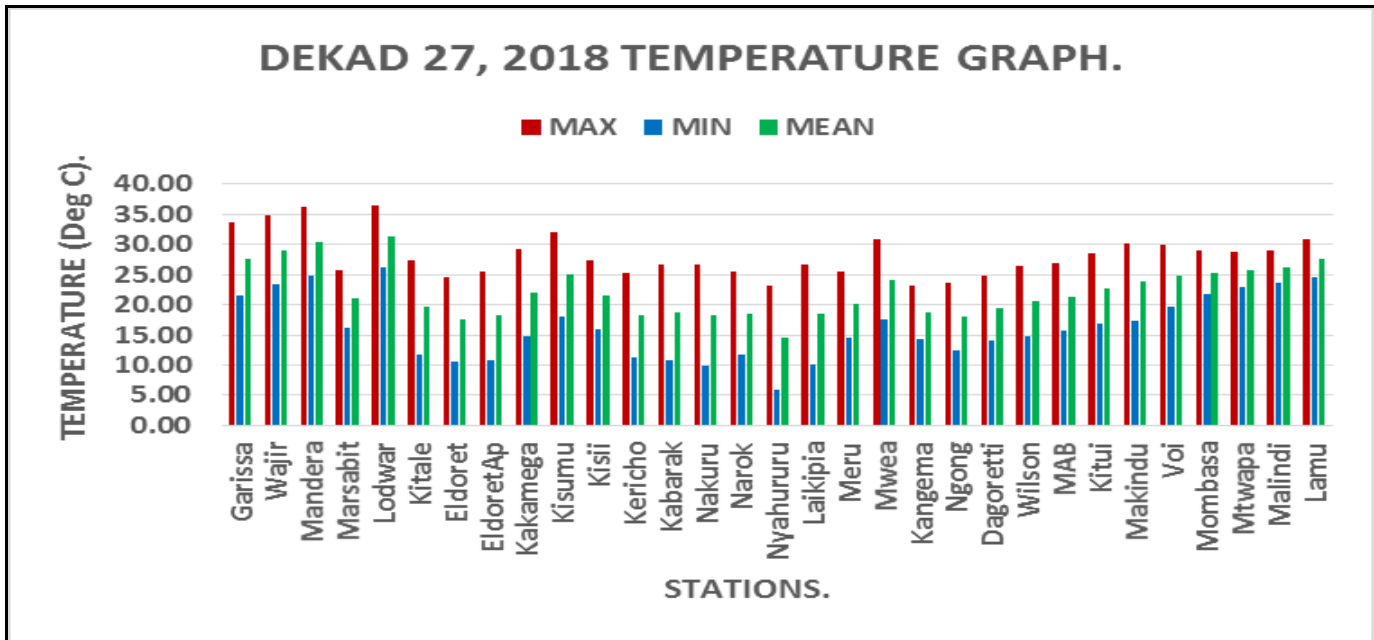


Figure 3.3: Maximum, Minimum and Average temperature for dekad 27, 2018.

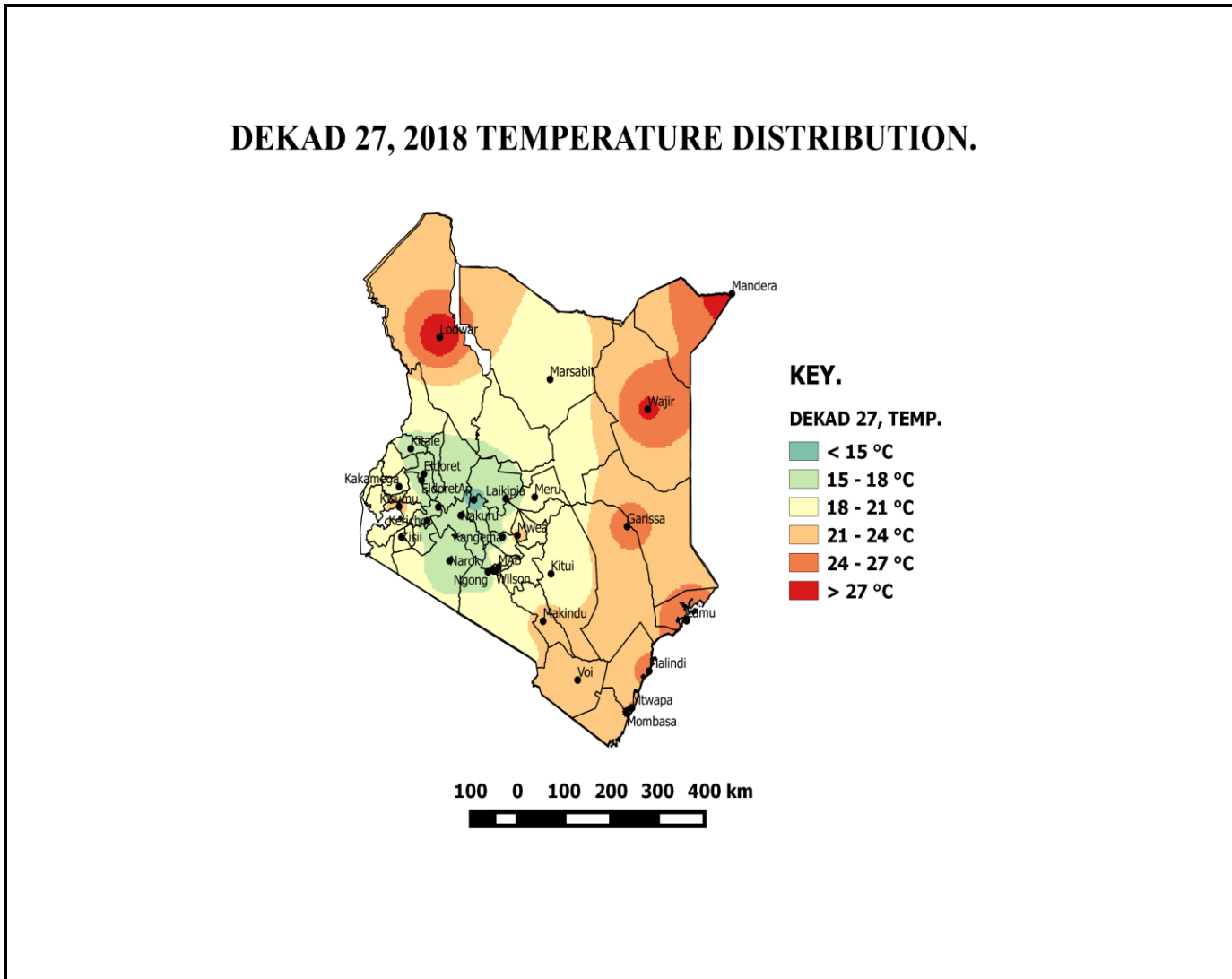


Figure 3.4: Mean temperature distribution for dekad 27, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS;  
1<sup>ST</sup> – 10<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 sunny intervals throughout the forecast period.

Afternoons/Evenings are expected to experience showers and thunderstorms over few places throughout the forecast period.

*The showers will replenish the crops that are in emergence stage in places like Kakamega, Kisii, Eldoret and Kitale.*

**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 fifth, sixth and seventh day when there will be a possibility of showers over few places in the afternoon on the high – ground areas.

*The Showers will benefit the maize that is at flowering 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.

*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 third and fifth 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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