



**KENYA METEOROLOGICAL DEPARTMENT**  
**DEKADAL AGROMETEOROLOGICAL BULLETIN**  
**WEATHER AND CROP REVIEW FOR DEKAD 17, 11<sup>TH</sup>–20<sup>TH</sup> JUNE, 2018**

**HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities decreased drastically in intensity and increased slightly in spatial distribution countrywide. The highest rainfall of 63.1 mm was received in Nyanza region at Kisumu Station compared to 142.5 mm reported at Kangema station in Central region in the previous dekad. The second highest rainfall of 51.1mm was recorded at Kakamega station in the Western region. Coastal region received the highest rainfall amount of 44.6 mm at Lamu station. Rift Valley region reported the highest rainfall amount of 43.5 mm at Kitale station. Nyahururu station in Central region recorded the highest rainfall amount of 37.5 mm. Eastern region received the highest rainfall amount of 22.6 mm at Embu station. North Eastern region reported 6.7 mm of rainfall at Moyale station; while Kabete station in Nairobi region received the highest rainfall amount of 6.0 mm.

Both Maximum and Minimum temperatures increased and decreased drastically respectively in most stations. The highest temperature of 33.8<sup>0</sup>C was recorded at Lodwar station in North-Eastern region compared to 32.9<sup>0</sup>C reported at the Wajir station in the same region in the previous dekad. The lowest Minimum temperature of 7.3 <sup>0</sup>C was recorded at Nyahururu station in Central region compared to 9.9 <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 17, 11<sup>TH</sup>–20<sup>TH</sup> JUNE, 2018**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station recorded 51.1mm of rainfall. The Mean air temperature reported was 21.4<sup>0</sup>C and sunshine duration was 8.6 hrs./day.

There was no report on total Pan Evaporation.

*Maize and beans were at flowering and harvesting stages respectively; both crops were in good state and normal yield is expected.*

**2.1.2 Kisii**

The station recorded total rainfall amount of 41.5mm. The Mean air temperature and Total Pan Evaporation recorded were 20.0<sup>0</sup>C and 29.0mm respectively. There was no report on sunshine duration.

*Maize and Beans were both at flowering and harvesting stages respectively; both crops were in good state and normal yield is expected.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station recorded 43.5 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 19.1°C and 26.2 mm respectively. Sunshine duration reported was 3.7 hours /day.

*Maize and beans were at flowering and maturity stages respectively. Both crops were in good state and the expected yield is normal.*

### **2.2.2 Eldoret - Kapsoya**

The station recorded 35.0 mm of rainfall. The Mean air temperature and Total Pan Evaporation recorded were 17.2°C and 34.0 mm respectively. There was no report on Sunshine parameter.

*Maize was still at flowering stage and in good state, though there was excessive rainfall but normal yield is expected.*

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

### **2.3.1 Nyeri**

The station received 24.7 mm of rainfall. The Mean air temperature recorded was 16.7°C. Sunshine duration reported was 2.7 hours/day; there was no report on Total Pan Evaporation.

*Maize and beans were both at flowering stage and in fair state. Maize was affected by stalk borer while beans were affected by excessive rainfall and other insects. The expected yield for both crops is below normal.*

### **2.3.2 Kabete**

The station recorded 6.0 mm of rainfall. The Total Pan Evaporation reported was 16.3 mm and there was no report on mean air temperature and sunshine duration.

*Maize was at flowering stage, in fair state and normal yield is expected. The beans were at maturity stage and in poor state since they had been affected by excessive rainfall; the expected yield is below normal.*

### **2.3.3 Nyahururu**

The station received 37.5mm of rainfall. The Mean air temperature recorded was 14.5°C. There was no report on sunshine and Pan Evaporation parameters.

*Maize was at emergence stage and in fair state. Potatoes were at maturity stage and in poor state. The expected yield for potatoes is below normal.*

### **2.3.4 Dagoretti**

The station received 0.4mm of rainfall. The Mean air temperature and Total Pan Evaporation reported were 16.4°C and 22.6mm respectively. The Sunshine duration recorded was 2.8hrs/day.

*No Phenological report.*

### **2.3.5 Thika**

The station recorded 0.6mm of rainfall; the Total Pan Evaporation reported was 24.0mm and there was no report on Mean air temperature.

*Maize, Beans and potatoes were at flowering, maturity and harvesting stages. They were in fair state and the expected yield is normal.*

## **2.4 EASTERN REGION**

### **2.4.1 Embu**

The station received 22.6 mm of rainfall. Total Pan Evaporation recorded was 20.1mm. There was no report on Mean Air Temperature and sunshine parameter.

*Both Maize and beans were at flowering and maturity stages respectively. They were in fair state and the expected yield is normal.*

### **2.4.2 Meru**

The station received 5.6mm of rainfall. The mean air Temperature and the Total Pan Evaporation recorded were 15.3<sup>0</sup>C and 29.1mm respectively. There was no report on sunshine duration.

*Maize was at flowering stage and in fair state though it had been affected by army worms. The beans were at harvesting stage and in poor state since they had been affected by excessive rains; below normal yield is expected.*

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

The station received 0.01mm of rainfall. The mean air temperature and Total Pan Evaporation recorded were 16.5<sup>0</sup>C and 21.0 mm respectively. There was no report on sunshine duration.

*Maize was at maturity stage and in good state while beans were at harvesting stage and in poor state. The Maize was affected by army worms and the expected yield is below normal.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station received 44.4mm of rainfall. Total Pan Evaporation recorded was 37.0 mm. There was no report on mean air temperature and Sunshine duration.

*Maize was at flowering stage and in fair state and there was sufficient rainfall in the dekad.*

### **2.5.2 Mtwapa**

The station received 18.3 mm of rainfall. The mean air temperature and Total Pan Evaporation reported were 25.5<sup>0</sup>C and 38.3mm respectively. There was no report on Sunshine parameter.

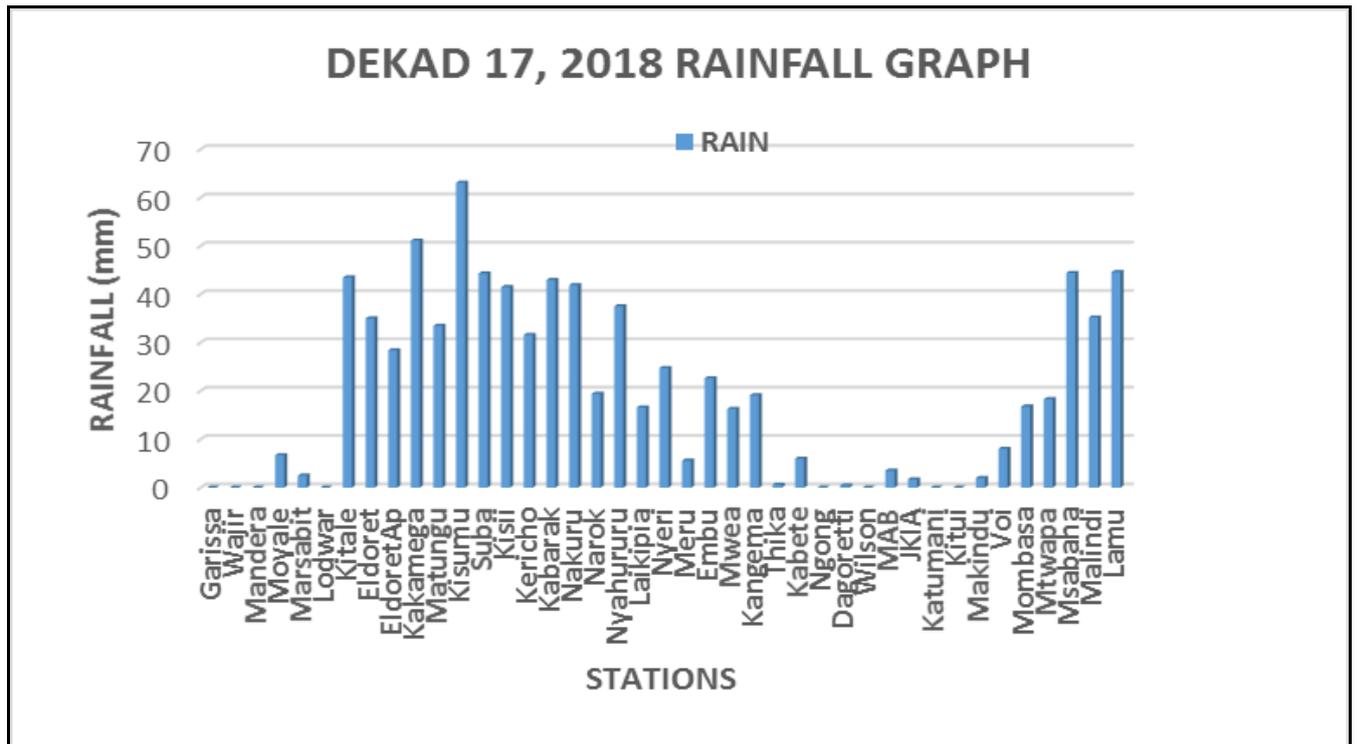
*Maize was at flowering stage and in fair state though it had been affected by Army worms and stalk borer.*

### **2.5.3 Lamu**

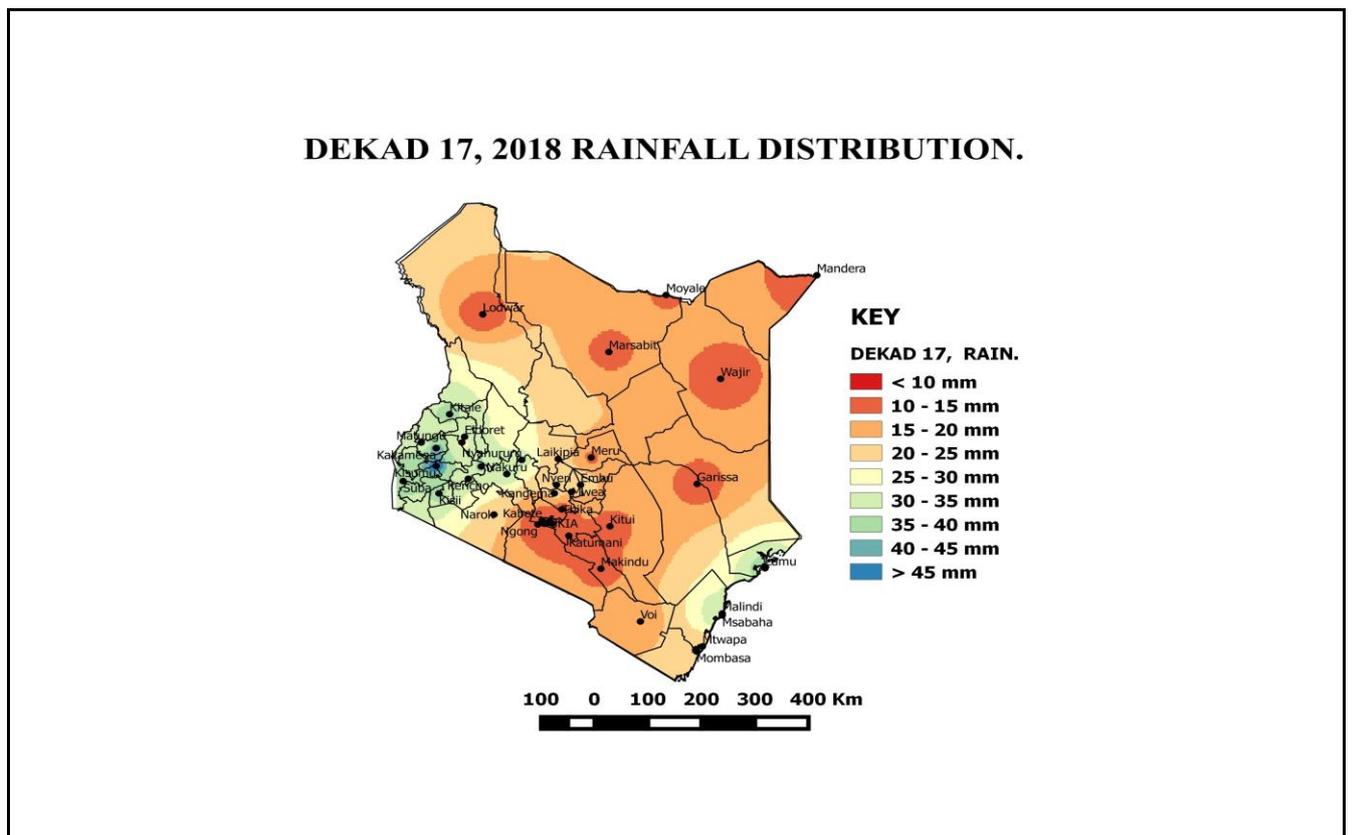
The station recorded 44.6 mm of rainfall. The Mean air temperature recorded was 26.9<sup>0</sup>C. There was no report on total Pan Evaporation and The Sunshine duration.

*Maize was at flowering stage and in fair state.*

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**



**Figure 3.1: Dekadal rainfall totals for dekad 17, 2018.**



**Figure 3.2: Dekadal rainfall distribution for dekad 17, 2018.**

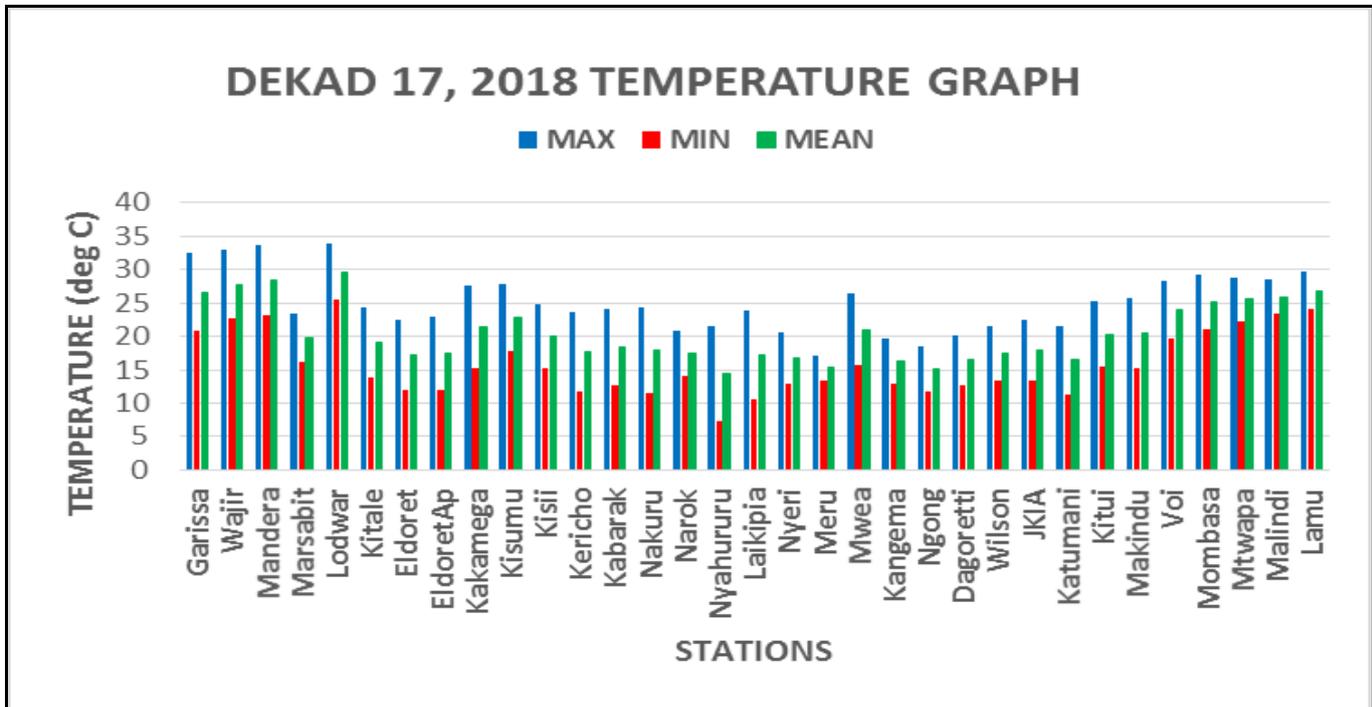


Figure 3.3: Maximum, Minimum and Average temperature for dekad 17, 2018.

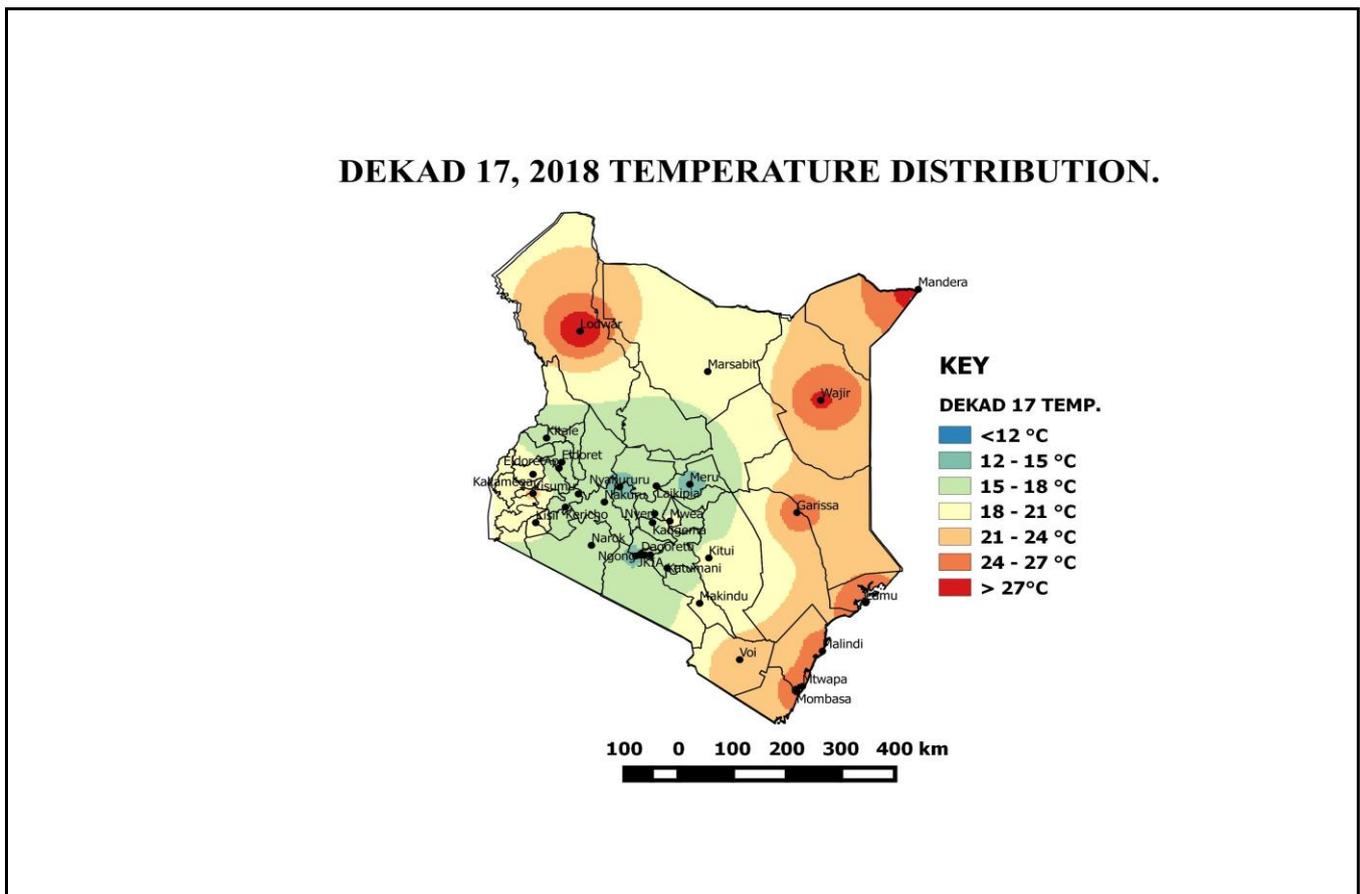


Figure 3.4: Mean temperature distribution for dekad 17, 2018.

**EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21<sup>ST</sup> – 30<sup>TH</sup> JUNE 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 rains over few places for the first six days of the forecast period followed by sunny intervals thereafter.

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

*The showers and rains will continue to benefit the crops that are in flowering and maturity stages in places like Kisumu, Kisii, Kitale and Kakamega etc.*

**The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals the entire day for most of the forecast period except on the fourth and fifth days when there will be a possibility of rains over few places in the morning and showers and thunderstorms over few places in the afternoon.

*The rains and showers 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),** are expected to experience cloudy mornings with rains over few places giving way to sunny intervals throughout the forecast period.

Afternoons are expected to experience showers over few places throughout the forecast period.

*The wet conditions will benefit the crops that are in flowering and maturity stages in places like Kabete, Nyahururu, Thika, Embu, Nyeri and Meru.*

**Northeastern counties (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo),** are expected to experience sunny intervals the entire day throughout the forecast period.

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

**Southeastern lowlands (counties of Taita Taveta, Makueni, Machakos and Kitui),** are expected to experience cloudy mornings breaking into sunny intervals for the rest of the day throughout the forecast period.

*The dry conditions will continue to favour the harvesting of beans in places like Machakos.*

**Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.)** are expected to experience showers over few places the entire day for the first three days of the forecast period followed by sunny intervals the entire day for the rest of the forecast period.

*The showers will continue to benefit the maize and fruits that are in flowering stage in places like Mtwapa, Msabaha and Lamu.*

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