



**KENYA METEOROLOGICAL DEPARTMENT**  
**DEKADAL AGROMETEOROLOGICAL BULLETIN**  
**WEATHER AND CROP REVIEW FOR DEKAD 18, 21<sup>ST</sup>–30<sup>TH</sup> JUNE, 2018**

**HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities increased drastically in intensity and reduced slightly in spatial distribution in most stations countrywide. The highest rainfall of 149.7 mm was received in Western region at Matungu Station compared to 63.1 mm reported at Kisumu station in Nyanza region in the previous dekad. The second highest rainfall amount of 142.5mm was recorded at Msabaha station in the Coastal region. Rift Valley region received the highest rainfall amount of 128.6 mm and 109.9mm at Eldoret Kapsoya and Eldoret Airport stations respectively. Eastern region reported the highest rainfall amount of 33.2 mm at Embu station. Kangema station in Central region recorded the highest rainfall amount of 32.0 mm. Nairobi region received the highest rainfall amount of 27.2 mm at Kabete station. Nyanza region reported 16.2 mm of rainfall at Kisii station; while Moyale station in North-Eastern region received the highest rainfall amount of 10.1 mm.

Maximum and Minimum temperatures continued on an increasing and decreasing trend respectively in most stations. The highest temperature of 34.1<sup>0</sup>C was recorded at Lodwar station in North-Eastern region compared to 33.8<sup>0</sup>C reported at the same station in the previous dekad. Nyahururu station in Central region continued to report the lowest minimum temperature of 7.3 <sup>0</sup>C just like 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 18, 21<sup>ST</sup>–30<sup>TH</sup> JUNE, 2018**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station recorded 133.5mm of rainfall. The Mean air temperature reported was 20.5<sup>0</sup>C and sunshine duration was 7.4 hrs/day. There was no report on total Pan Evaporation.

*Maize was at maturity stage and in good state, though they have been affected by army worms, normal yield is still expected.*

**2.1.2 Kisii**

The station recorded total rainfall amount of 16.2. The Mean air temperature and Total Pan Evaporation recorded were 19.3<sup>0</sup>C and 28.7mm respectively. There was no report on sunshine duration.

*Maize and Beans were at maturity and harvesting stages respectively. Both crops were in good state hence above normal yield is expected.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station recorded 76.1 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 18.6°C and 36.1 mm respectively. Sunshine duration reported was 3.2 hours /day.

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

### **2.2.2 Eldoret - Kapsoya**

The station recorded 128.6 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 16.2°C and 38.6 mm respectively. There was no report on Sunshine parameter.

*Maize was still at flowering stage, but nearing maturity 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 10.7 mm of rainfall. The Mean air temperature recorded was 17.0°C. Sunshine duration reported was 5.1/day; there was no report on total Pan Evaporation.

*Maize was at flowering stage and in fair state though it had been affected by stalk borer, normal yield is still expected. Beans were at harvest stage and in poor state due to excessive rainfall and other insects; hence, below normal yield is expected*

### **2.3.2 Kabete**

The station recorded 27.2 mm of rainfall. The total Pan Evaporation reported was 26.7 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 harvest 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 26.3 mm of rainfall. The Mean air temperature recorded was 13.5°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 hence expected yield is below normal.*

### **2.3.4 Dagoretti**

The station received 4.0mm of rainfall. The Mean air temperature and Total Pan Evaporation reported were 16.7°C and 26.0mm respectively. The Sunshine duration recorded was 3.6hrs/day.

*No Phenological report.*

### **2.3.5 Thika**

The station recorded 1.7 mm of rainfall; the Total Pan Evaporation reported was 22.7mm and there was no report on Mean air temperature.

*Maize and Beans were at flowering and maturity stages respectively. Both crops were in fair state hence normal yield is expected. Potatoes were in harvest stage and in fair state hence normal yield is expected.*

## **2.4 EASTERN REGION**

### **2.4.1 Embu**

The station received 33.2 mm of rainfall. Total Pan Evaporation recorded was 23.8mm. 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 7.4mm of rainfall. The mean air Temperature and the Total Pan Evaporation recorded were 17.8°C and 33.4 mm respectively. There was no report on sunshine duration.

*Maize was at flowering stage and in good state and above normal yield is expected. The beans were at harvesting stage and in fair state hence normal yield is expected.*

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

The station reported dry conditions. The mean air temperature and total Pan Evaporation recorded were 17.1°C and 28.0 mm respectively. There was no report on sunshine duration.

*Maize was at maturity stage and in good state hence normal yield is expected. Beans were at harvesting stage and in poor state due to excessive rainfall received in previous dekads, hence below normal yield is expected.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station received 142.5mm of rainfall. There was no report on mean air temperature, total Pan Evaporation and Sunshine duration.

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

### **2.5.2 Mtwapa**

The station received 78.4 mm of rainfall. The mean air temperature and Total Pan Evaporation reported were 25.6°C and 38.4mm 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; normal yield is still expected.*

### **2.5.3 Lamu**

The station recorded 92.1 mm of rainfall. The Mean air temperature recorded was 26.4°C. There was no report on total Pan Evaporation and The Sunshine duration.

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

# ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.

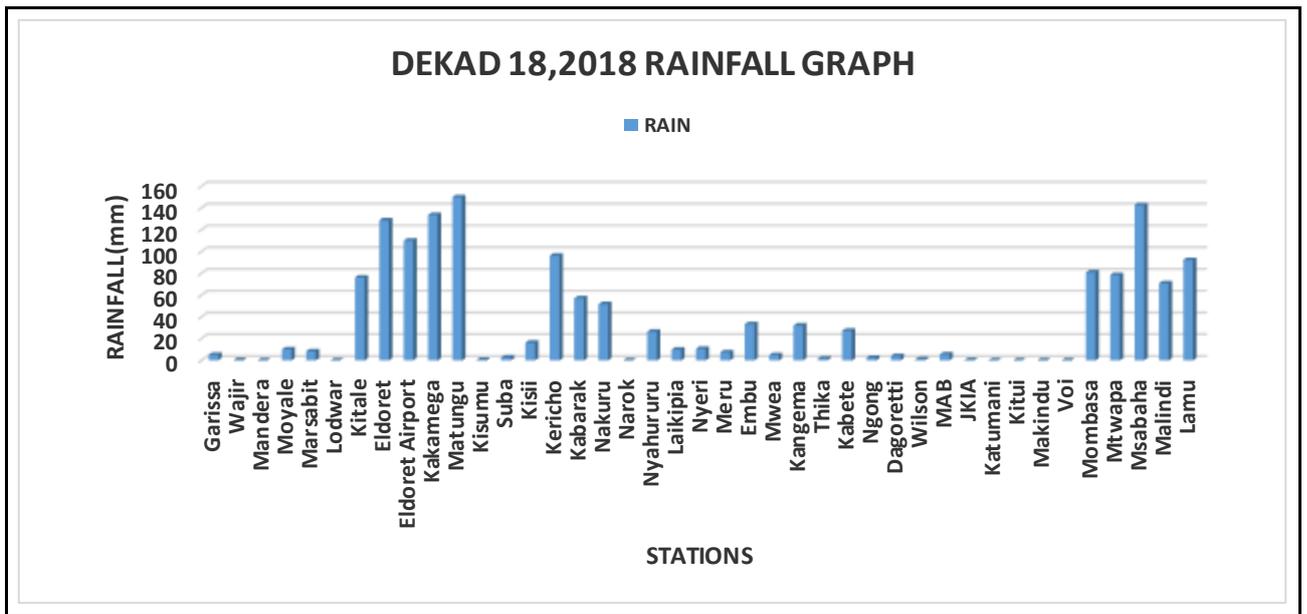


Figure 3.1: Dekadal rainfall totals for dekad 18, 2018.

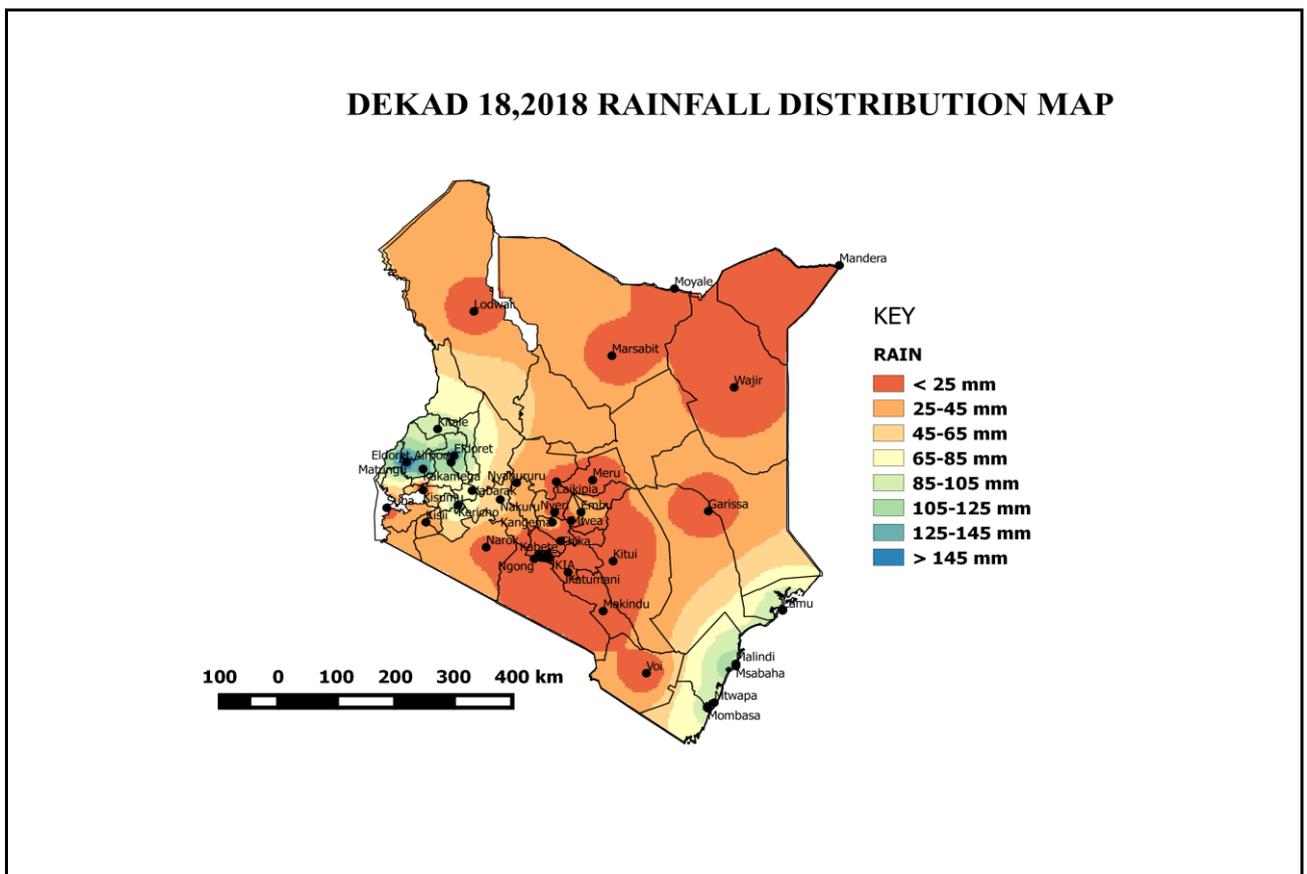


Figure 3.2: Dekadal rainfall distribution for dekad 18, 2018.

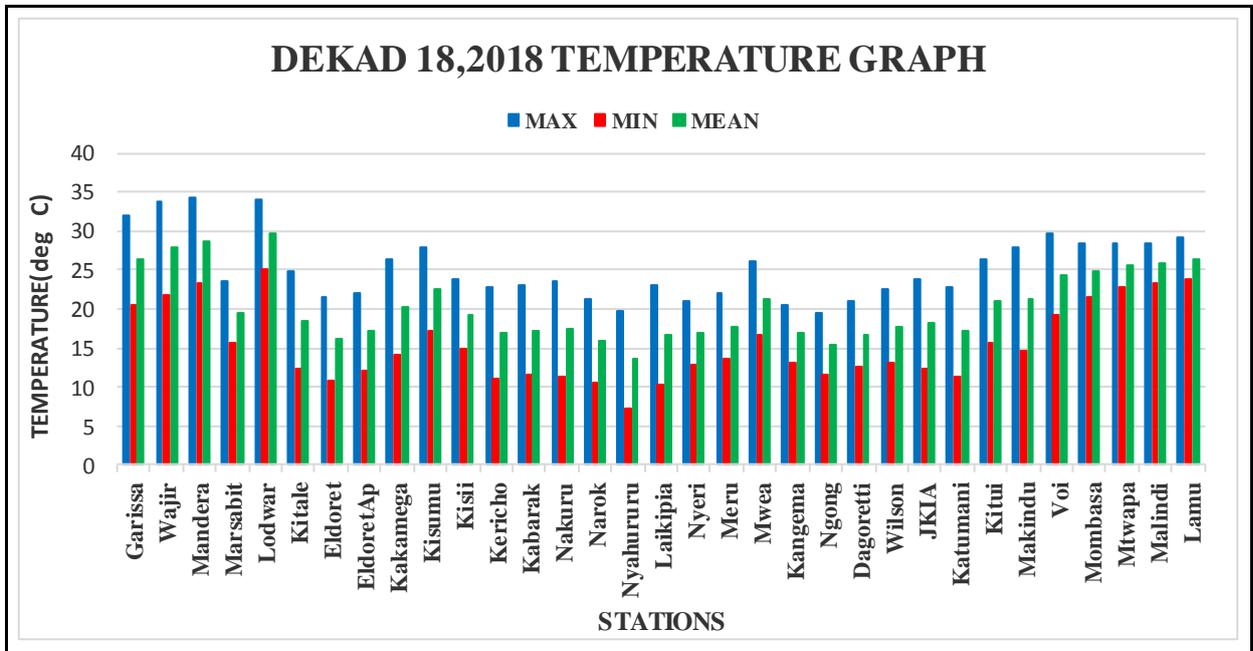


Figure 3.3: Maximum, Minimum and Average temperature for dekad 18, 2018.

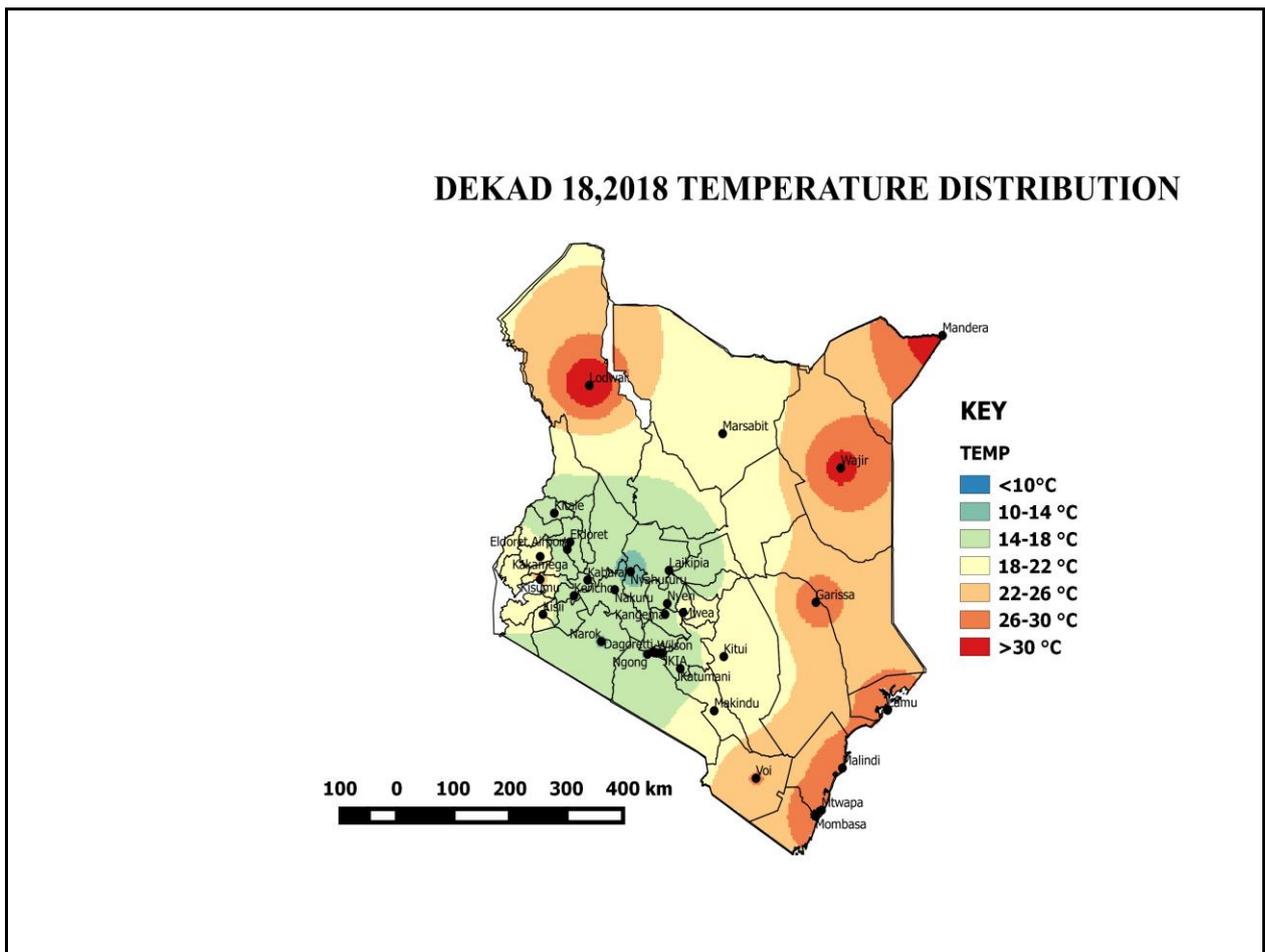


Figure 3.4: Mean temperature distribution for dekad 18, 2018.

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 1<sup>ST</sup> – 10<sup>TH</sup> JULY 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 on the second, fourth and ninth days of the forecast period while the rest of the days are expected to experience sunny intervals. 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 ninth day when rains over few places are expected in the morning and a possibility of Showers and Thunderstorms over few places in the afternoon/ evening on the eighth day.

*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 rains over few places for most of the forecast period.

*The wet conditions will continue to 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 continue to 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 and affect negatively the maize in maturity stage 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 most of the forecast period except on the eighth day when sunny intervals are expected in the afternoon.

*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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