



**KENYA METEOROLOGICAL DEPARTMENT**  
**DEKADAL AGROMETEOROLOGICAL BULLETIN**  
**WEATHER AND CROP REVIEW FOR DEKAD 16, 1<sup>ST</sup>-10<sup>TH</sup> JUNE, 2018**

**HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities decreased both in intensity and spatial distribution countrywide. The highest rainfall of 142.5 mm was received in Central region at Kangema Station compared to 181.7mm reported at Malindi station in Coastal region in the previous dekad. The second highest rainfall of 122.2mm was recorded at Eldoret station in the Rift valley region. Western region received the highest rainfall amount of 89.5 mm at Kakamega station. Nyanza region reported the highest rainfall amount of 68.2 mm at Suba station. Mombasa Airport station in the Coastal region recorded the highest rainfall amount of 44.3mm. Eastern region received the highest rainfall amount of 34.6mm at Embu station. Nairobi region reported 33.5mm of rainfall at Kabete station; while Lodwar station in North Eastern region received the highest rainfall amount of 30.0 mm.

Both Maximum and Minimum temperatures decreased and increased drastically respectively in most stations. The highest temperature of 32.9<sup>0</sup>C was recorded at Wajir station in North-Eastern region compared to 33.7<sup>0</sup>C reported at the same station in the same region in the previous dekad. The lowest Minimum temperature of 9.9 <sup>0</sup>C was recorded at Nyahururu station in Central region compared to 8.8 <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 1<sup>ST</sup>-10<sup>TH</sup> JUNE, 2018**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station recorded 89.5mm of rainfall. The Mean air temperature reported was 21.7<sup>0</sup>C and sunshine duration was 5.7 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 63.6mm. The Mean air temperature and total Pan Evaporation recorded were 19.9<sup>0</sup>C and 24.1mm respectively. There was no report on sunshine parameter.

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

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station recorded 23.5 mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 19.1°C and 23.5 mm respectively. Sunshine duration reported was 3.7 hours /day.

*Maize and beans were at emergence and maturity stages respectively; both crops were in good state and the expected yield for beans is normal.*

### **2.2.2 Eldoret - Kapsoya**

The station recorded 122.2 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 17.1°C and 31.2 mm respectively. There was no report on Sunshine parameter.

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

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

### **2.3.1 Nyeri**

The station received 39.8 mm of rainfall. The Mean air temperature recorded was 17.1°C. Sunshine duration reported was 2.3hours/day; there was no report on total Pan Evaporation.

*Maize and beans were both at flowering stages and both crops were in fair state; though maize was being affected by stalk borer disease and the beans had excessive rainfall and other insects.*

### **2.3.2 Kabete**

The station recorded 33.5 mm of rainfall. The Total Pan Evaporation reported was 17.0 mm and there was no report on mean air temperature and sunshine duration.

*Both Maize and beans were at flowering stage and in fair and poor states respectively. The beans are affected by excessive rainfall and below normal yield is expected while normal yield is expected for the maize.*

### **2.3.3 Nyahururu**

The station received 57.5 mm of rainfall. The mean air temperature recorded was 15.8°C. There was no report on sunshine and Pan Evaporation parameters.

*Both Maize and potatoes were at emergence stage and in fair state though the potatoes had been affected by excessive rainfall.*

### **2.3.4 Dagoretti**

The station received 26.1mm of rainfall. The Mean air temperature and total Pan Evaporation reported were 17.2°C and 17.1mm respectively. There was no report on Sunshine parameter.

*No Phenological report.*

### **2.3.5 Thika**

The station recorded 12.6mm of rainfall; the total Pan Evaporation reported was 12.6mm and there was no report on Mean air temperature.

*Both Maize and beans were at flowering stages and in fair state; potatoes were at maturity stage and in fair state. Normal yield is expected for all the crops.*

## **2.4 EASTERN REGION**

### **2.4.1 Embu**

The station received 34.6 mm of rainfall. Total Pan Evaporation recorded was 18.5mm while sunshine duration was 1.8 hours/day. There was no report on Mean Air Temperature.

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

### **2.4.2 Meru**

The station received 24.9mm of rainfall. The mean air Temperature duration and the total Pan Evaporation recorded were 17.5<sup>0</sup>C and 24.4mm respectively. There was no report on sunshine duration.

*Both Maize and beans were at flowering stage and in fair state. Maize was affected by army worms and the beans were destroyed by excessive rainfall in some parts of the district.*

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

The station received 0.6mm of rainfall. The mean air temperature and total Pan Evaporation recorded were 17.3<sup>0</sup>C and 8.5 mm respectively. The sunshine duration recorded was 0.5 hrs. /day.

*Maize was at maturity stage and in good state while the beans were at harvesting stage and in poor state. The expected yield for maize and beans was normal and below normal respectively.*

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station received 32.5mm of rainfall. Total Pan Evaporation recorded was 48.0mm. 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 12.1 mm of rainfall. The mean air temperature and Total Pan Evaporation reported were 26.0<sup>0</sup>C and 48.6mm respectively. There was no report on Sunshine parameter.

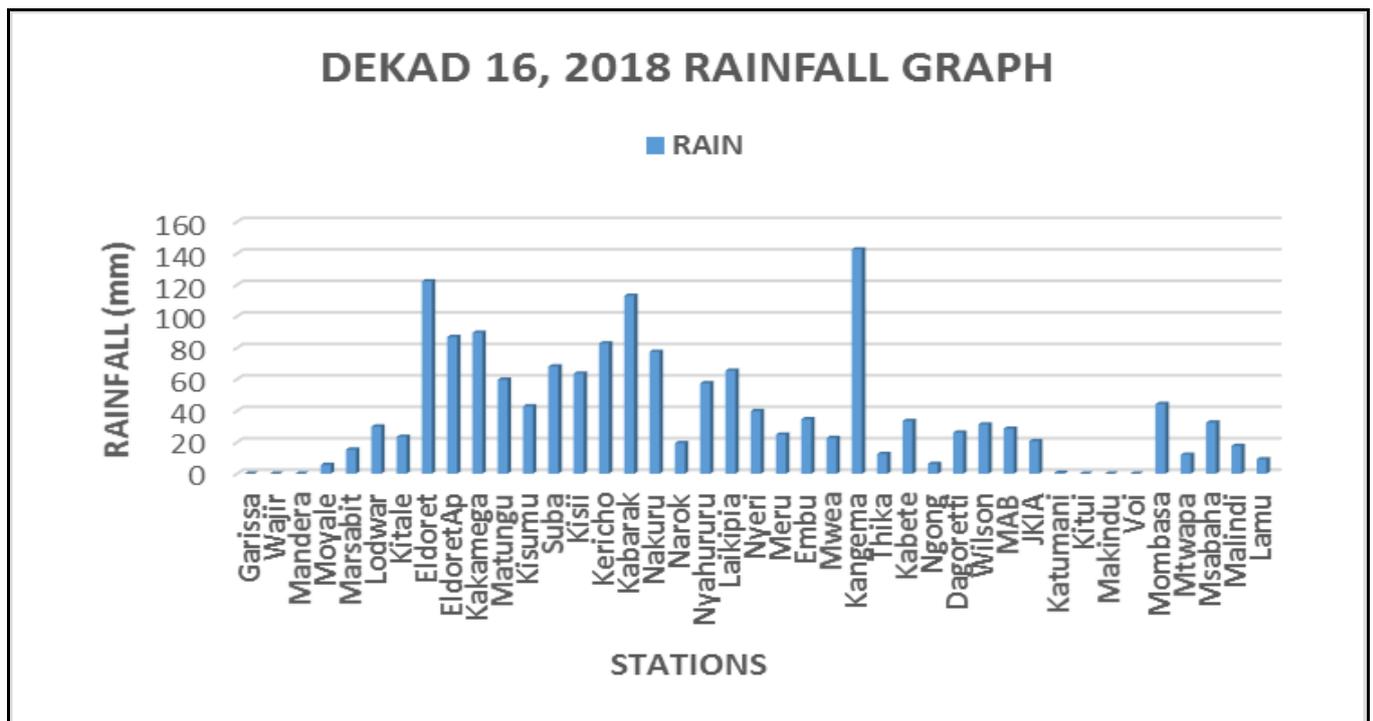
*Mangoes and maize were both at flowering stages and in good states, though the maize had been affected by Army worms and stalk borer.*

### **2.5.3 Lamu**

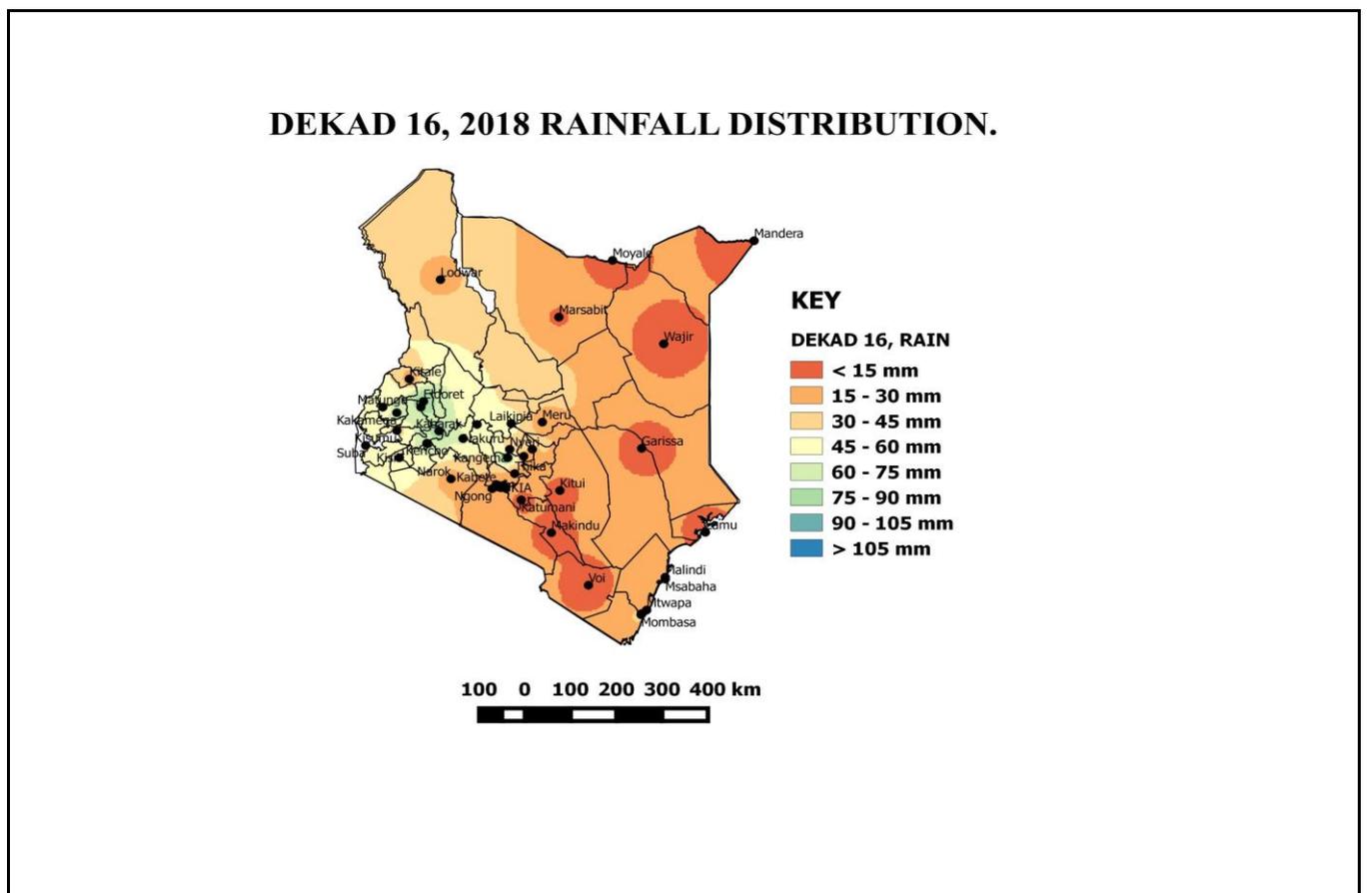
The station recorded 9.21 mm of rainfall. The Mean air temperature recorded was 27.7<sup>0</sup>C. The Sunshine duration reported was 8.7hours/day; there was no report on total Pan Evaporation.

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

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**



**Figure 3.1: Dekadal rainfall totals for dekad 16, 2018.**



**Figure 3.2: Dekadal rainfall distribution for dekad 16, 2018.**

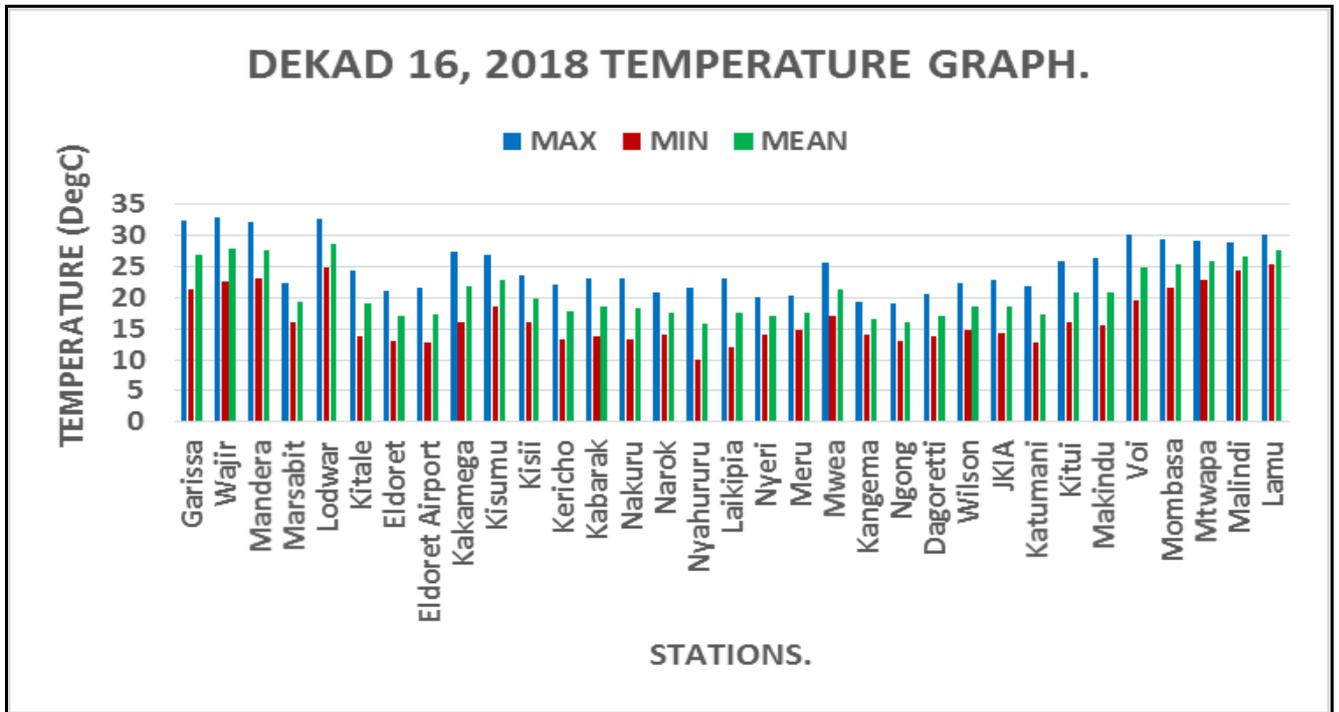


Figure 3.3: Maximum, Minimum and Average temperature for dekad 16, 2018.

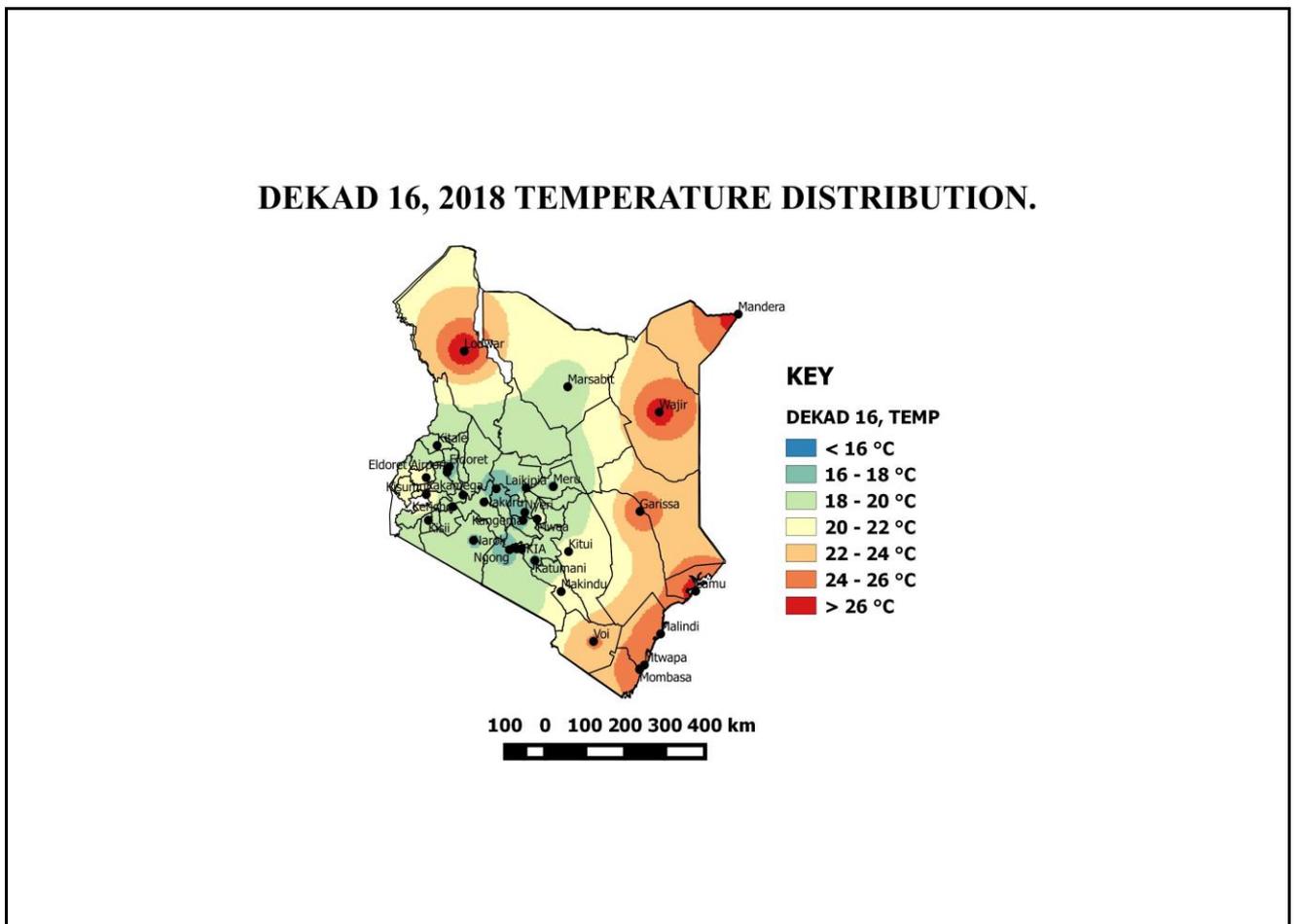


Figure 3.4: Mean temperature distribution for dekad 16, 2018.

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11<sup>TH</sup> – 21<sup>ST</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 sunny intervals for the first three days of the forecast period followed by rains over few places 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 emergence and flowering 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 throughout the forecast period.

*The sunny conditions will 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),** 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 on the high ground areas throughout the forecast period.

*The wet conditions will benefit the crops that are in emergence and flowering 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 sunny intervals the entire day throughout the forecast period. .

*The dry conditions will 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 four days of the forecast period followed by sunny intervals the entire day for the rest of the forecast period.

*The showers will be of great benefit to the maize and fruits that are in flowering stage in places like Mtwapa and Msabaha.*

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For feedback or further guidance, Contact:

Director,  
Kenya Meteorological Department,  
Agro meteorological Advisory Services Division,  
Dagoretti Corner, Ngong Road,  
P.O. Box 30259, 00100 GPO, Nairobi  
Tel: +254 (0)20 3867880-7/3876957/3873682;  
Fax: +254 (0)20 3876955  
E-mail: [agromet@meteo.go.ke](mailto:agromet@meteo.go.ke);  
Website: [www.meteo.go.ke](http://www.meteo.go.ke)

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