



**KENYA METEOROLOGICAL DEPARTMENT**  
**DEKADAL AGROMETEOROLOGICAL BULLETIN**  
**WEATHER AND CROP REVIEW FOR DEKAD 22, 1<sup>ST</sup>–10<sup>TH</sup> AUGUST, 2018**

**HIGHLIGHTS ON RAINFALL AND TEMPERATURE**

Rainfall activities decreased drastically both in intensity and in spatial distribution countrywide. Rift valley region reported the highest rainfall amount of 37.1 mm at Kericho station compared to 100.8 mm reported at Kakamega station in the Western region in the previous dekad. The second highest rainfall amount of 35.1 mm was received at Kisii station in Nyanza region. Western region reported the highest rainfall amount of 17.4 mm at Kakamega station. Central region received the highest rainfall amount of 11.9 mm at Nyahururu station. Msabaha station in the Coast region recorded the highest rainfall amount of 9.4 mm. North Eastern region received the highest rainfall amount 5.9 mm at Marsabit station. Eastern region reported 2.1 mm of rainfall at Meru station; while all Nairobi stations reported dry conditions.

Both Maximum and Minimum temperatures increased and decreased drastically respectively in most stations. The highest temperature of 35.1<sup>0</sup>C was recorded at Mandera station in North-Eastern region compared to 34.3<sup>0</sup>C reported at Lodwar station in the same region in the previous dekad. Nyahururu station in Central region continued to report the lowest temperature of 4.6<sup>0</sup>C compared to 6.3<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 22, 1<sup>ST</sup>–10<sup>TH</sup> AUGUST, 2018**

**2.1 NYANZA AND WESTERN REGIONS**

**2.1.1 Kakamega**

The station recorded 17.4mm of rainfall. The Mean air temperature reported was 20.5°C. There was no report on total Pan Evaporation and sunshine parameters.

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

**2.1.2 Kisii**

The station recorded total rainfall amount of 35.1 mm. The Mean air temperature recorded was 20.0°C. There was no report on total Pan Evaporation

*Maize was at harvest stage and in good state, hence normal yield is expected.*

## **2.2 RIFT VALLEY REGION**

### **2.2.1 Kitale.**

The station recorded 4.9mm of rainfall. The Mean air temperature and total pan Evaporation recorded were 19.3°C and 32.4 mm respectively.

*Maize was at harvest stage in good state and the expected yield is normal.*

### **2.2.2 Eldoret - Kapsoya**

The station recorded 14.6 mm of rainfall. The Mean air temperature and total Pan Evaporation recorded were 16.0°C and 44.1 mm respectively.

*Maize was at harvest 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 1.4 mm of rainfall. The Mean air temperature recorded was 17.0°C. Sunshine duration was 7.2hrs/day.

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

### **2.3.2 Kabete**

The station reported dry conditions. The total Pan Evaporation reported was 36.0 mm and there was no report on mean air temperature and sunshine duration.

*Maize harvesting is over.*

### **2.3.3 Nyahururu**

The station received 11.9 mm of rainfall. The mean air temperature recorded was 13.2°C. There was no report on Pan Evaporation parameter.

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

### **2.3.4 Dagoretti**

The station reported dry conditions. The Mean air temperature and total Pan Evaporation reported were 16.9°C and 32.5 mm respectively.

*No Phenological report.*

### **2.3.5 Thika**

The station recorded 0.01 mm of rainfall; the total Pan Evaporation reported was 33.5 mm and there was no report on Mean air temperature.

*Maize was still at maturity stage and in fair state; hence expected yield is normal. Beans were at harvesting stage and in fair state hence the expected yield is normal.*

## **2.4 EASTERN REGION**

### **2.4.1 Embu**

The station received 0.01 mm of rainfall. Total Pan Evaporation recorded was 34.0 mm. There was no report on Mean Air Temperature.

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

### **2.4.2 Meru**

The station received 2.1 mm of rainfall. The mean air temperature and the total Pan Evaporation recorded were 17.6<sup>0</sup>C and 38.6 mm respectively.

There was no report on sunshine duration.

*Maize was at maturity 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 17.4<sup>0</sup>C and 45.0 mm respectively.

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

## **2.5 COASTAL REGION**

### **2.5.1 Msabaha**

The station received 9.4 mm of rainfall. Total Pan Evaporation recorded was 39.0mm. There was no report on mean Air Temperature.

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

### **2.5.2 Mtwapa**

The station received 2.1mm of rainfall. The mean air temperature and total Pan Evaporation reported were 25.2 °C and 50.0mm respectively.

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

### **2.5.3 Lamu**

The station recorded 4.5 mm of rainfall. The Mean air temperature recorded was 27.1°C. There was no report on total Pan Evaporation.

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

**ANALYSIS OF RAINFALL AND TEMPERATURE CONDITIONS.**

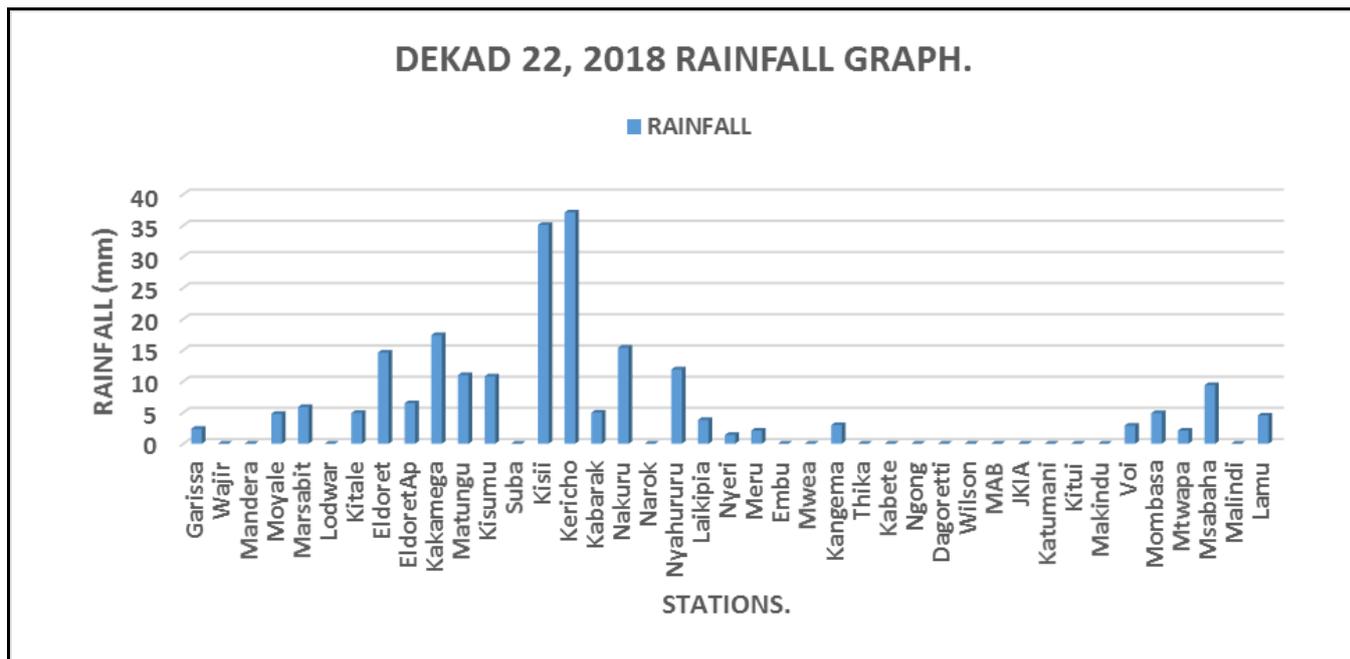


Figure 3.1: Dekadal rainfall totals for dekad 22, 2018.

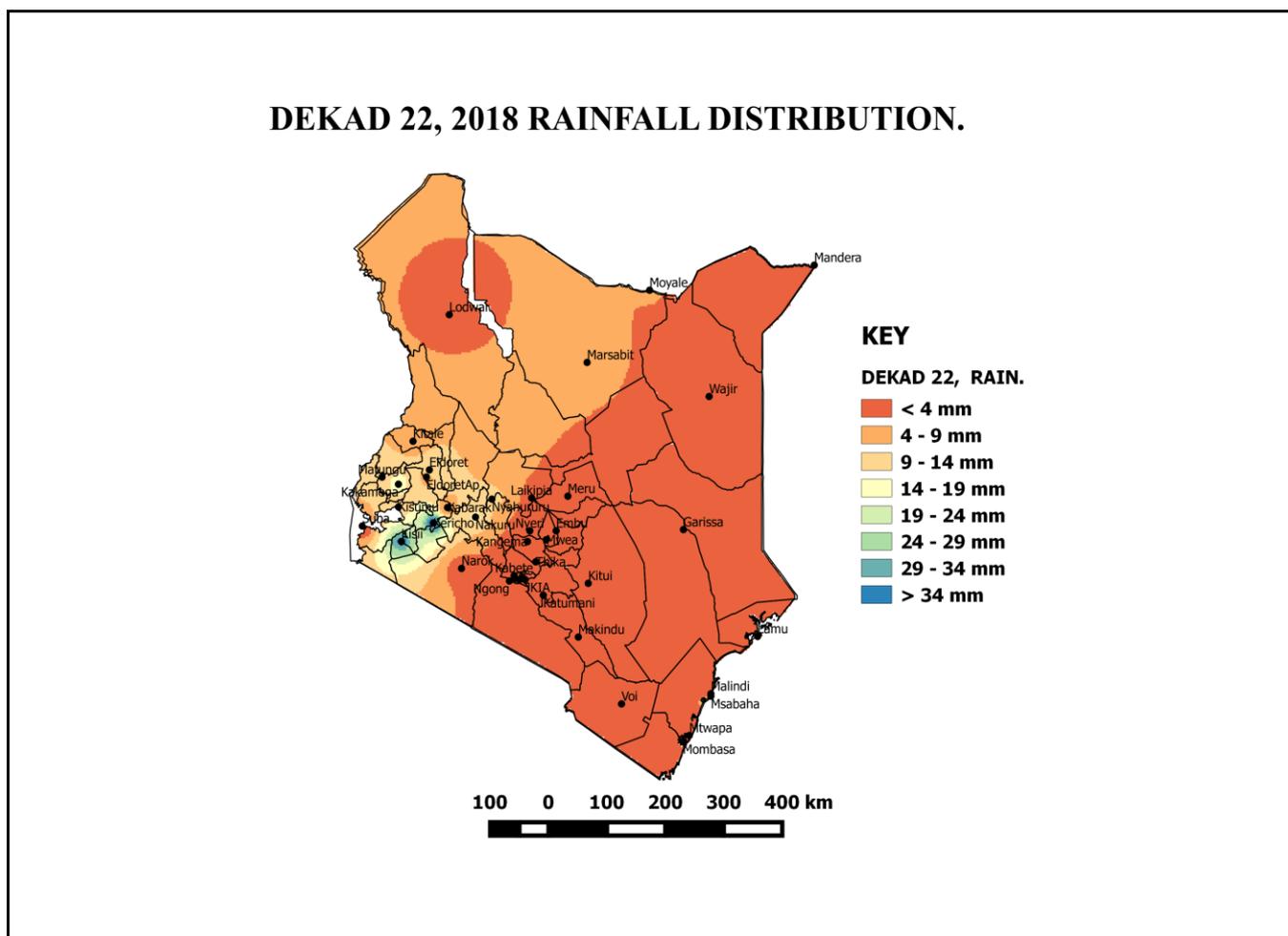


Figure 3.2: Dekadal rainfall distribution for dekad 22, 2018.

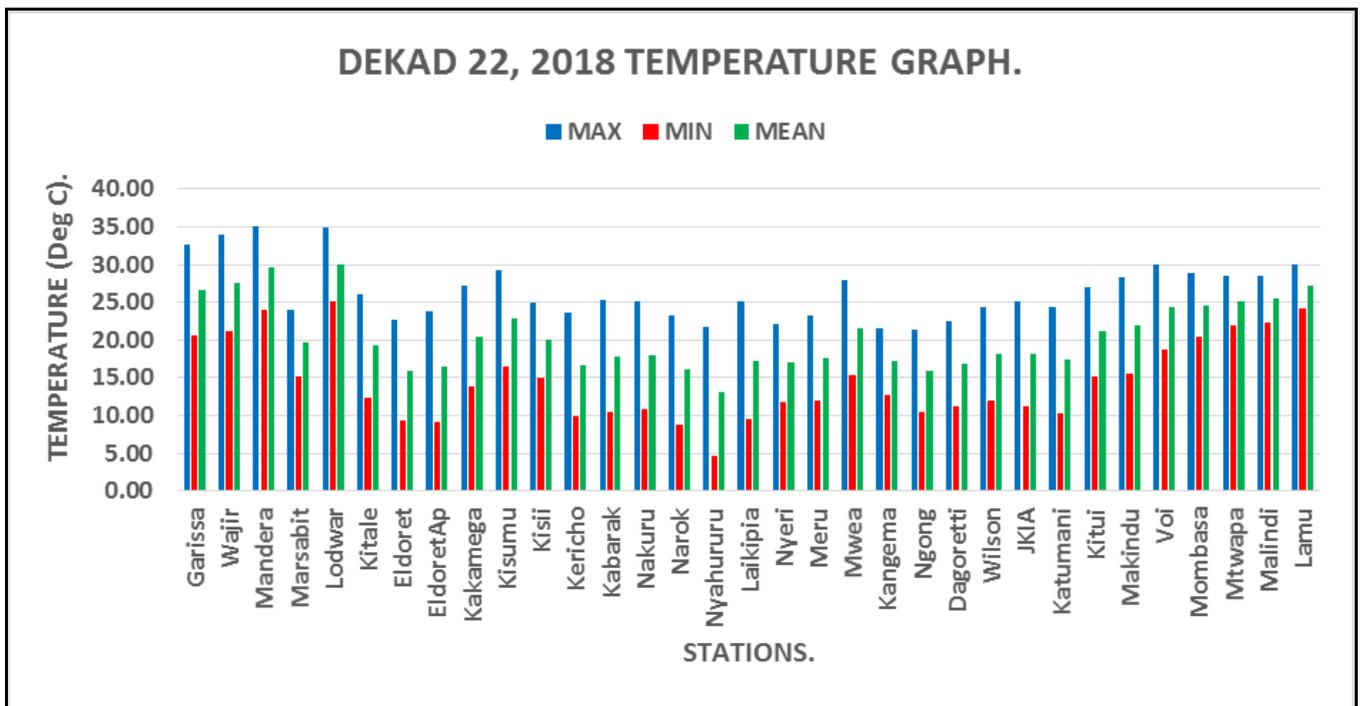


Figure 3.3: Maximum, Minimum and Average temperature for dekad 22, 2018.

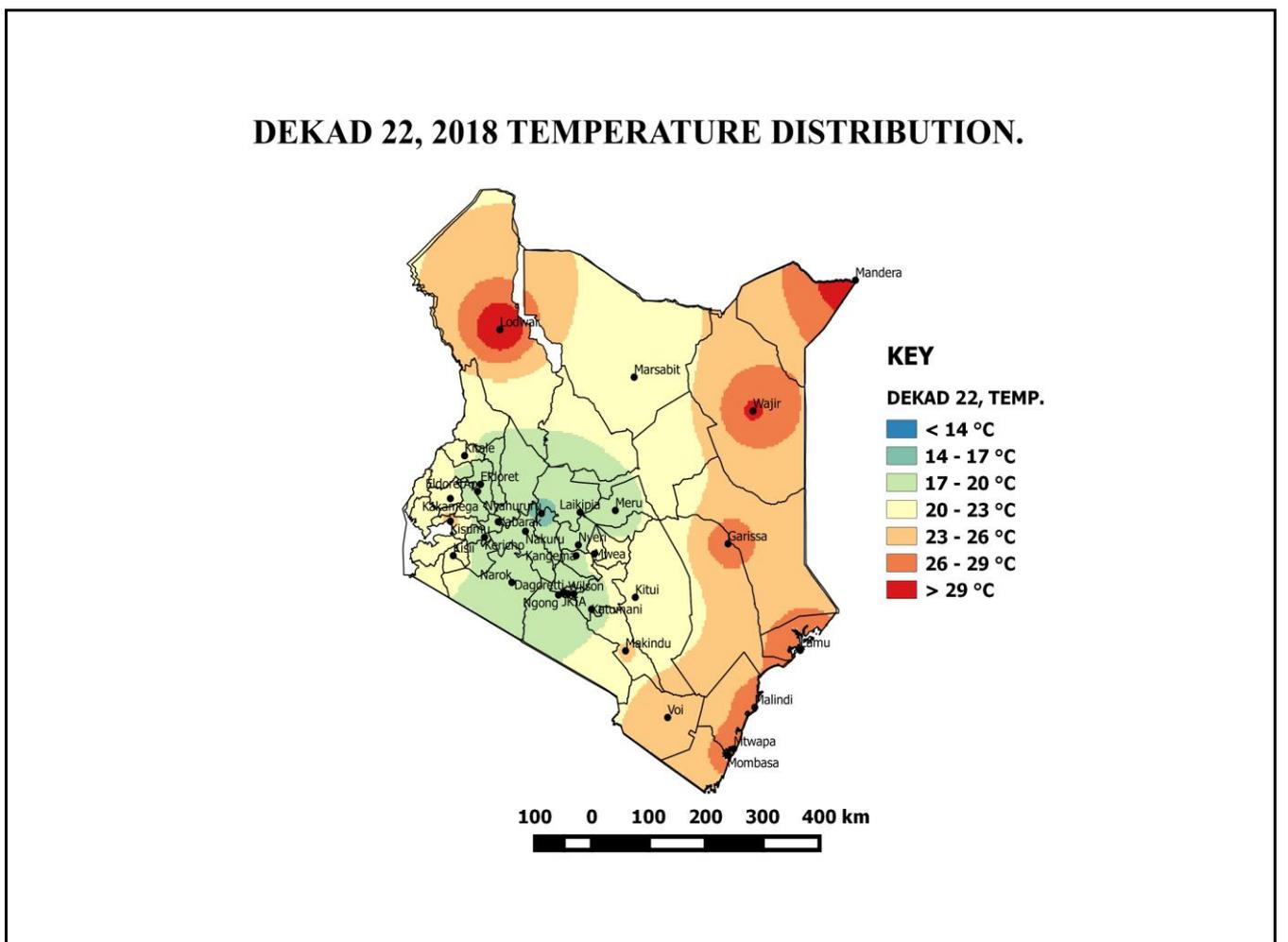


Figure 3.4: Mean temperature distribution for dekad 22, 2018.

## **EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 11<sup>TH</sup> – 20<sup>TH</sup> AUGUST 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 throughout the forecast period.

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

*The showers will continue to benefit the crops that are in maturity stage in places like Kisumu and Kisii. The sunny intervals will enhance the drying of maize in places like Kakamega and Kitale.*

**The Northwestern counties (Turkana, West Pokot and Samburu),** are expected to experience sunny intervals the entire day throughout the forecast period.

*The sunny conditions continue to have an adverse 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 early morning cloudiness giving way to sunny intervals throughout the forecast period.

Afternoons are expected to experience mainly sunny intervals on the first half of the forecast period followed by a possibility of showers over few places on last half of the forecast period.

*The rains and showers will benefit the crops that are in flowering and maturity stages in places like Nyahururu, Thika, 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 sunny conditions will continue to have a negative impact on the vegetation for the animals kept in this region.*

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

*The dry conditions will continue to have an adverse effect on the crops and animals kept in this area.*

**Coastal strip (counties of Mombasa, Malindi, Kilifi, Lamu, Kwale, etc.)** Mornings are expected to experience a possibility of showers over few places in for the first eight days of the forecast period followed by sunny intervals thereafter.

Afternoons are expected to experience mainly sunny intervals throughout the forecast period.

*The showers will be of great benefit to the maize that are in maturity stage in places like Lamu and Mtwapa. The sunny intervals will enhance the drying of maize in places like Msabaha.*

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