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# AGROMETEOROLOGICAL BULLETIN

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those regions, crops are expected to continue doing well.

DEKAD 23 PERIOD: 11<sup>TH</sup> – 20<sup>TH</sup> AUGUST 2024.

## 1.0 HIGHLIGHTS

- Few parts of the Country received moderate to heavy rainfall during the dekad. There was negative deviation in most parts of the country except Eldoret Kapsoya, Nyahururu and Laikipia.
- Eldoret- Kapsoya station in Uasin Gishu reported the highest amount of rainfall of 127.2 mm, followed by Nyahururu in the Central region with 110.2 mm. (Figures 3.1 and 3.3).
- Mean air temperature increased over most parts of the country by more than 0.1 °c (Figures 3.2 and 3.4).
- Total pan evaporation increased over several stations due to increasing temperatures.
- During the next ten days, rainfall activities is expected to increase over several parts of the country, except over the South Eastern lowland, North Western and North Eastern parts of the country. Due to the improved weather activities in

## 2.0 WEATHER AND CROP REVIEW FOR THE 11<sup>TH</sup> – 20<sup>TH</sup> AUGUST 2024.

### 2.1 WESTERN AND NYANZA REGION

Most stations in the region reported decreased rainfall compared to the previous dekad. Mean air temperature in the region ranged between 20.6 °C to 24.0 °C. Broken cloud cover dominated the region throughout the dekad.

#### 2.11 KAKAMEGA:

The station reported a rainfall amount of 75.9 mm which was above its long-term mean.

The average mean air temperature at the station dropped from 22.0 °C in the previous dekad to 21.7 °C, the station reported scattered cloud cover in the morning and broken cloud cover in the afternoon.

Most farmers have harvested their maize crop.

## **2.12 KISII:**

The station recorded 39.2 mm of rainfall, which was below its long-term mean. Mean air temperature decreased from 21.0°C to 20.6°C during the same period.

The station reported broken cloud cover during both morning and afternoon hours throughout the dekad.

Land preparations is ongoing for the next crop season.

## **2.20 RIFT VALLEY REGION**

Several parts within the region reported lower rainfall compared to the previous dekad.

Mean air temperature in the region ranged between 17.1 °C to 19.4 °C. Broken cloud cover was observed over most parts of the region during the dekad.

### **2.2.1 KITALE:**

The station recorded 25.8 mm of rainfall during the dekad. The mean air temperature decreased slightly from 20.1°C to 19.4°C.

The station reported broken cloud cover during the dekad

Most farmers have started harvesting maize. Beans harvesting has been completed.

### **2.2.2 KERICHO:**

The station reported a rainfall amount of 69.5mm which is above its long-term mean of 58.5 mm. Mean air temperature increased from 17.8 °C to 17.9°C.

The station reported scattered cloud cover in the morning and broken cloud cover in the afternoon. The station reported total pan evaporation of 35.3 mm during the dekad

Maize has reached maturity stage and in good state. Beans harvesting has been completed.

## **2.3.0 CENTRAL AND NAIROBI REGION.**

All stations reported reduced rainfall compared to the previous dekad (Fig 3.3). Mean air temperature decreased in the region and ranged between 14.1°C and

19.3°C. Most stations from the region reported broken cloud cover throughout the dekad.

### **NYERI:**

The station reported a cumulative rainfall amount of 2.6 mm which was below the long term dekad mean of 12.1mm. Mean air temperature slightly decreased from 17.5°C to 17.2°C during the dekad.

Cloud cover was broken throughout the dekad.

Maize is at wax ripeness and normal yield is expected. Beans has attained full maturity with below normal yield expected.

### **2.3.1 THIKA:**

The station received a rainfall amount of 0.0 mm which is below its long-term dekad mean. Mean air temperature slightly increased from 18.8°C to 19.3°C during the dekad

The station reported broken cloud cover and total pan evaporation of 28.0 mm during the dekad.

Maize harvesting ongoing in several farms.

### **2.3.2 DAGORETTI**

The station reported a cumulative amount of 0.0 mm which is above its long-term dekad mean of 13.2 mm. The mean air temperature slightly increased from 17.5 °C to 18.0 °C during the dekad. The station reported broken cloud cover during the dekad.

Maize is at wax ripeness.

### **2.3.3 KABETE:**

The station reported a cumulative rainfall amount of 0.8 mm during the dekad. The mean air temperature at the station slightly increased from 16.9°C to 17.4°C. The station reported broken cloud cover throughout the dekad.

Maize is at the maturity stage.

### **2.3.5 NYAHURURU:**

The station received rainfall amount of 110.2mm which was above its long-term mean of 50.3 mm. The mean air temperature at the station decreased from 14.8°C to 14.1°C. The station reported broken clouds covered throughout the

dekad. Maize crop is in fair condition due to sufficient rainfall.

#### **2.4.0 EASTERN REGION:**

The Eastern region reported reduced rainfall compared to the previous dekad with Embu, Meru and Kitui reporting 9.4 mm, 8.3 mm and 1.7 mm respectively. (Fig 3.2). Mean air temperature ranged between 17.8°C and 22.6°C. Broken cloud cover dominated the region throughout the dekad.

##### **2.4.1 MERU:**

The station recorded a cumulative rainfall amount of 8.3 mm which was slightly above the long-term decadal mean of 3.9 mm. Mean air temperature slightly increased from 17.7°C to 17.8 °C.

Broken cloud cover was observed throughout the dekad.

Land preparations are ongoing for the next crop season.

##### **2.4.2 EMBU:**

The station reported a cumulative rainfall amount of 9.7 mm during the dekad. The mean air temperature during the dekad decreased from 18.3 °C to 18.2°C.

The station reported broken cloud cover during the morning and in the afternoon throughout the dekad

Maize is at wax ripeness and normal yield is expected.

##### **2.4.3 KATUMANI:**

The station reported 0.0 mm of rainfall which was below the long-term mean rainfall of 1.0mm during the dekad.

A broken cloud state was reported during the dekad.

Maize has attained maturity and awaiting harvest.

#### **2.5.0 COASTAL REGION**

The Coastal region reported enhanced rains compared to the previous dekad. The mean air temperature ranged between 24.6°C and 27.5°C. Broken cloudy conditions was observed in the region throughout the dekad

##### **2.5.1 MTWAPA:**

The station recorded a rainfall amount of 9.4 mm which was below its long term decadal mean of 18.3mm. Mean air temperature increased from 25.6°C to 26.3°C. Broken cloud cover was observed all through the dekad.

Maize harvesting is going on in some farms.

##### **2.5.2 MSABAHA:**

The station reported a rainfall amount of 0.0 mm during the dekad. The mean air temperature slightly increased from 26.1°C to 26.7°C. Broken cloud cover was observed although the dekad

Maize harvesting is ongoing but below normal yield is expected.

#### **2.6 NORTH EASTERN REGION:**

Most stations in the region reported low to nil rainfall during the dekad. Mean air temperature ranged between 22.0°C to 30.1°C.

Broken cloud cover dominated the region all through the dekad.

Pasture and forage conditions have improved due to the previous week rains and water levels rising over several water/earth pans in the region.

DEKAD 23 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

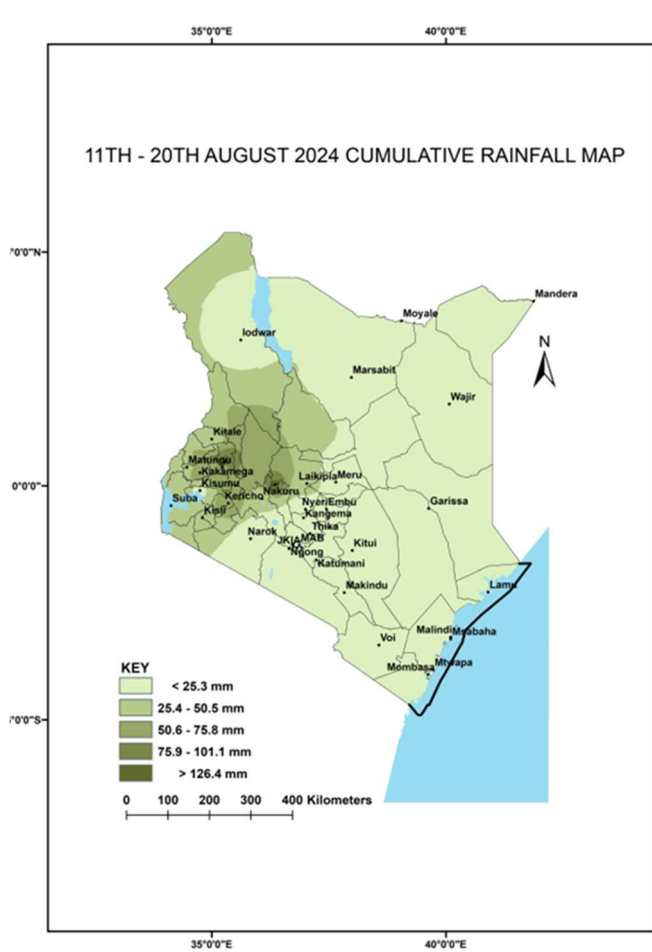


Fig: 3.1

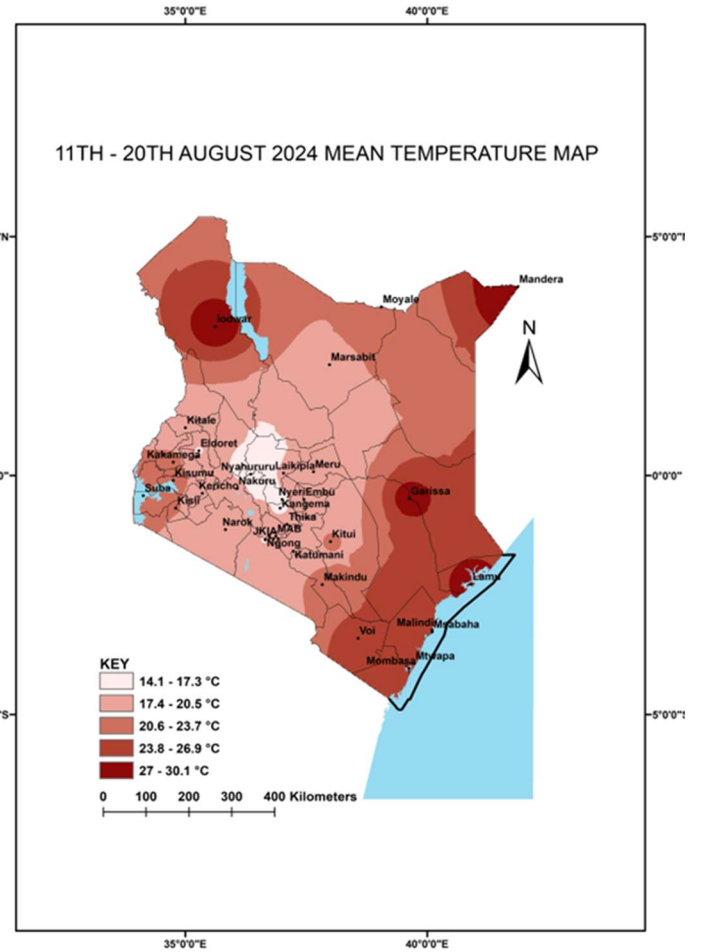


Fig: 3.2

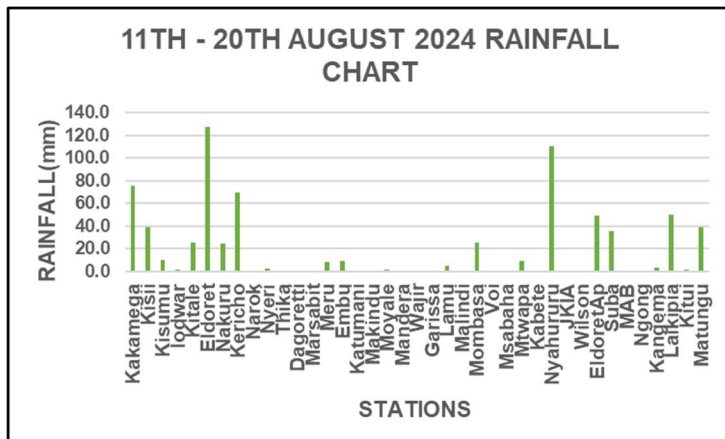


Fig: 3.3

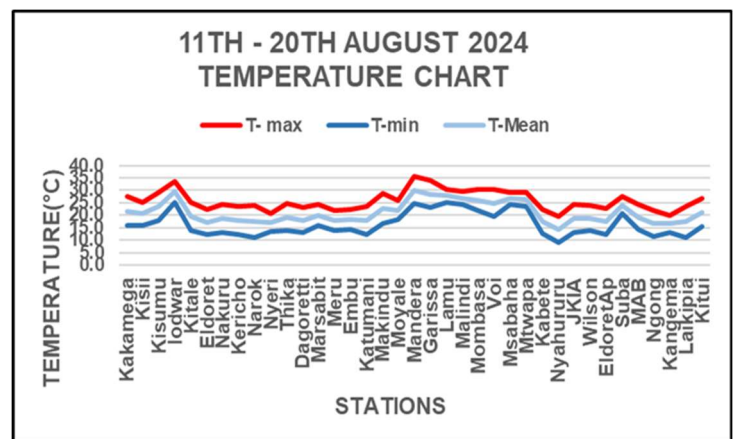


Fig: 3.4

Station	Maximum consecutive wet days from the start of JJA Season	Maximum consecutive dry days from the start of the Season	Days with moderate or heavy RF from the start of the Season	Sum RF from the start of JJA Season
Kakamega	5	4	22	509.9
Kisii	4	12	18	306.0
Kitale	5	3	20	345.5
Kericho	8	3	29	484.3
Nyeri	3	12	6	77.2
Thika	2	17	3	61.8
Dagoretti	4	6	9	228.6
Meru	3	19	3	33.3
Embu	3	10	6	70.5
Katumani	2	19	1	13.4
Msabaha	4	13	8	232.0
Mtwapa	2	6	7	172.2
Kabete	4	10	8	174.9
Nyahururu	9	7	18	320.9
Kabarak	2	6	3	63.1

**Fig: 3.5**

#### **4.0 EXPECTED WEATHER AND CROP**

##### **CONDITIONS DURING THE NEXT TEN (10) DAYS;**

**21ST – 31ST AUGUST 2024.**

In the **Western and Nyanza regions**, Morning rains are expected over few places. Afternoon showers and thunderstorms are likely to occur over few places occasionally spreading to several places. Night showers are also expected over few places.

The crops are expected to continue on developing and growing due to favorable weather.

In the **Central region and Nairobi County**, Morning rains are expected over few places. Afternoon showers is expected over few places. Nights are likely to receive showers over few places.

The crops and pastures in the region are expected to continue on doing well owing to the conducive rainfall expected in the region.

In **North Western**, Morning rains and sunny intervals are expected in the morning. A chance of showers during the afternoon session and partly cloud over the night.

In **North Eastern** sunny intervals are expected during the day while nights are likely to be partly cloudy.

Pastures and forage regeneration are expected to continue recuperating owing to the soil moisture of the past rains.

In **south-eastern lowlands**, Cloudy condition breaking into the sunny intervals are expected during the day while nights are likely to be partly cloudy.

Crops and pasture condition is expected to deteriorate due to the long spell of dryness.

In the **Coastal region**, Morning showers are expected over few places. Afternoon showers are also likely to occur over few places. Nights will experience cloudy in the days turning into showers at end of forecasted period.

The expected precipitation will benefit the crops and pastures in the field.

#### **4.1 AGRO-ADVISORY:**

- ❖ Farmers should maximize profits by exploring market opportunities. They should consult with agricultural extension services for valuable market information.

- ❖ Pastoralists are advised to grow, make proper use and preservation of pasture & forage.
  - ❖ Farmers should ensure proper storage of cereals void of humidity, in dry and cool places.
  - ❖ Communities are advised to take advantage of the current rains to harvest water for use during dry periods.
  - ❖ Farmers are advised to use the unseasonal rainfall going on wisely to grow early maturing crops.
  - ❖ Farmers are advised to establish robust collaborations with Meteorological staff and other technical personnel at the grassroots to enhance their understanding of weather patterns and their implications on agricultural activities
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