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# AGROMETEOROLOGICAL BULLETIN

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DEKAD 10 PERIOD: 1<sup>ST</sup> - 10<sup>TH</sup> APRIL 2024.

2.0 WEATHER AND CROP REVIEW FOR THE  
1<sup>ST</sup> - 10<sup>TH</sup> APRIL 2024.

## 1.0 HIGHLIGHTS

## 2.1 WESTERN AND NYANZA REGION

- Several parts of the Country received heavy to very heavy rainfall during the dekad.
- Sondu Miriu and Maseno Veterinary stations in Nyanza reported the highest amount of rainfall 396.9 and 334 mm, followed by Lokusero secondary school and Meru stations which recorded 306.5 and 298.9 mm (Figures 3.1 and 3.3).
- Mean air temperature dropped over most parts of the country by at least 1.0 °c though over some areas mean air temperatures dropped by more than 2.0 °C (Figures 3.2 and 3.4).
- Total pan evaporation decreased over most stations due to low temperatures and the prevailing cloudy conditions.
- During the next ten days, moderate to heavy rainfall is expected to continue over several parts of the country, especially over the Highlands East and West of the Rift Valley, South Eastern Lowlands, and the Coastal strip.

Most stations in the region reported heavy rainfall compared to the previous dekad. Mean air temperature in the region ranged between 20.7°C to 24.4 °C. Scattered to broken cloud cover dominated the region throughout the dekad.

### 2.11 KAKAMEGA:

The station reported a rainfall amount of 124.7 mm which was more than its long-term dekadal mean of 86.2 mm.

The average mean air temperature at the station dropped from 24.1°C to 24.1°C from the previous dekad. The station reported broken cloud cover throughout the dekad.

Both maize and beans have attained the emergence stage and are in a very good state.

### 2.12 KISII:

The station recorded 195.2 mm of rainfall, which was above the long term dekadal mean of 82.4 mm. 10 consecutive wet days of moderate to heavy rainfall were reported during the dekad. Mean air temperature dropped from 22.4°C to 20.6 °C. during the same period.

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

Both maize and beans have attained the emergence stage and are in very good state.

## **2.20 RIFT VALLEY REGION**

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

Mean air temperature in the region dropped during the dekad and ranged between 18.7°C to 20.2 °C. Scattered to Broken cloud cover was observed over most of the region during the dekad.

### **2.2.1 KITALE:**

The station recorded 47.3 mm of rainfall which was normal during the dekad. The mean air temperature dropped from 22.4°C to 20.4°C during the current dekad.

The station reported broken cloud cover and total pan evaporation of 29.3 mm during the dekad

Most farmers have started planting both maize and beans.

### **2.2.2 KERICHO:**

The station reported a rainfall amount of 123.2 mm which is above its dekadal long-term mean of 68.8 mm. The mean air temperature slightly decreased from 20.4°C to 19.2°C.

The station reported broken cloud cover and total pan evaporation of 33.7 mm during the dekad

Both maize and beans have attained the emergence stage and are in good state.

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

All stations reported enhanced rainfall compared to the previous dekad (Fig 3.3). Mean air temperatures dropped in the region and ranged between 17.1°C and 20.8°C most stations from the region reported broken cloud cover throughout the dekad.

### **2.3.1 NYERI:**

The station reported a cumulative rainfall amount of 209.7 mm which was above the long term dekadal

mean. Mean air temperature slightly decreased from to 21.9°C to 21.1°C during the dekad.

Cloud cover was broken during the morning reducing to scattered in the afternoon throughout the dekad.

Planting is underway in several farms.

### **2.3.2 THIKA:**

The station received a rainfall amount of 159.5 mm which is above its long-term dekadal mean. The station reported broken cloud cover and total pan evaporation of 43.8 mm during the dekad.

Maize and beans have attained the emergence stage and are in a good state.

### **2.3.3 DAGORETTI**

Reported a cumulative amount of 90.5 mm which is above its long-term dekadal mean of 59.5 mm. The mean air temperature decreased from 21.7 °C to 20.6 °C during the dekad. The station reported broken cloud cover during the dekad.

Maize and beans have attained the emergence stage and are in good state.

### **2.3.4 KABETE:**

The station reported a cumulative rainfall amount of 118.6 mm during the dekad. The mean air temperature at the station decreased from 21.0°C to 20.4°C. The station reported broken cloud cover during the morning reducing to scattered during the afternoon throughout the dekad.

Maize and beans have attained the emergence stage and are in good state.

### **2.3.5 NYAHURURU:**

The station received rainfall amount of 145 0 mm which was above its long-term dekadal mean of 31.0 mm. The mean air temperature at the station decreased from 18.2°C to 17.2°C. The station reported broken clouds covered throughout the dekad.

Maize and beans have attained the emergence stage and are in good state.

## **2.4.0 EASTERN REGION:**

The Eastern region reported enhanced rainfall compared to the previous dekad (Fig 3.2). Mean air temperature ranged between 21.3°C and 25.6°C. Broken cloud cover dominated the region throughout the dekad.

#### **2.4.1 MERU:**

The station recorded a cumulative rainfall amount of 298.9 mm which was above the long-term decadal mean of 51.4 mm. Mean air temperature slightly decreased from 21.6°C to 21.3 °C.

Broken cloud cover in the morning reducing to a few in the afternoon was observed throughout the dekad.

Both maize and beans have attained the emergence stage and are in a good state.

#### **2.4.2 EMBU:**

The station reported a cumulative rainfall amount of 190.4 mm during the dekad. The mean air temperature during the dekad was 22.0°C.

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

Both maize and beans have attained the emergence stage and are in a good state.

#### **2.4.3 KATUMANI:**

The station reported 135.1 mm of rainfall which was above the long-term mean rainfall during the dekad.

A broken cloud state and total pan evaporation of 30 mm were reported during the dekad.

Maize and beans have attained the emergence stage and are in a good state.

#### **2.50 COASTAL REGION:**

The Coastal region reported enhanced rains compared to the previous dekad. The mean air temperature ranged between 28.0°C and 29.0°C. Broken cloudy conditions in the morning which were reduced to scattered in the afternoon was observed in the region throughout the dekad

#### **2.5.1 MTWAPA:**

The station recorded a rainfall amount of 45.1 mm which was normal during the dekad. Mean air temperature decreased from 29.7°C to 28.8°C. Broken cloud cover was observed during the morning hours decreasing to scattered during the afternoon.

Both maize and beans have attained the emergence stage and are in a good state.

#### **2.5.2 MSABAHA:**

The station reported a rainfall amount of 50.2 mm during the dekad. The mean air temperature slightly decreased from 30.6°C to 29.0°C. Broken cloud cover was observed at the station during the morning hours reduced to a few during the afternoon hours. Total pan evaporation was 98.2 mm

Both maize and beans have attained the emergence stage and are in a good state.

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

Most stations in the region reported moderate to heavy rainfall during the dekad. Mean air temperature ranged between 30.0°C to 31.5 °C.

Cloud cover was scattered at Mandera, and broken at Wajir and Garissa.

Pasture and forage conditions have started improving with the rains and water levels rising over several water/earth pans in the region.

#### **DEKAD 10 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES**

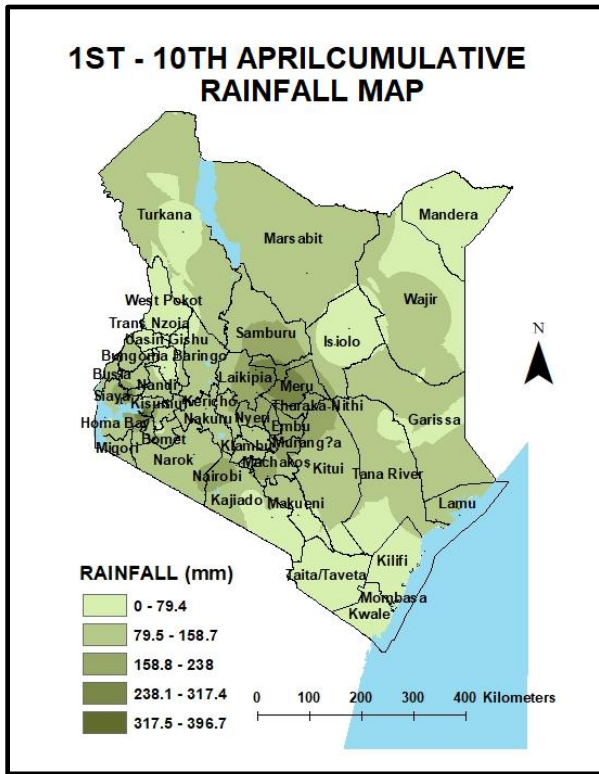


Fig 3.1

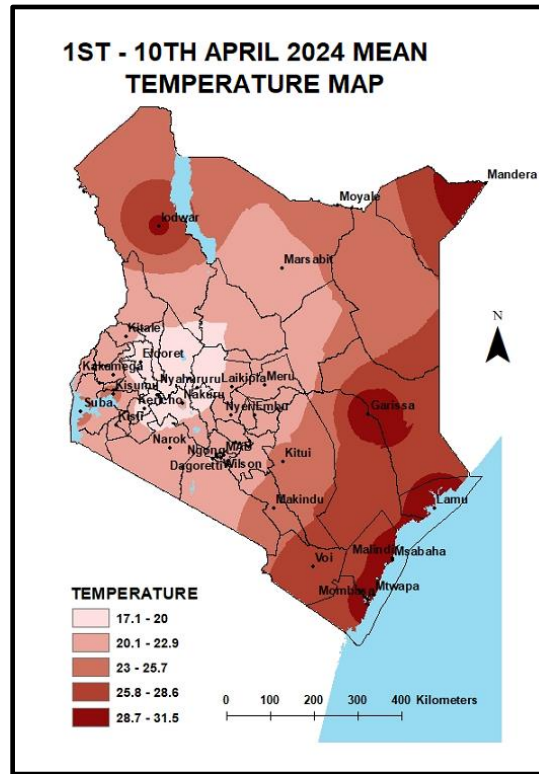


Fig 3.2

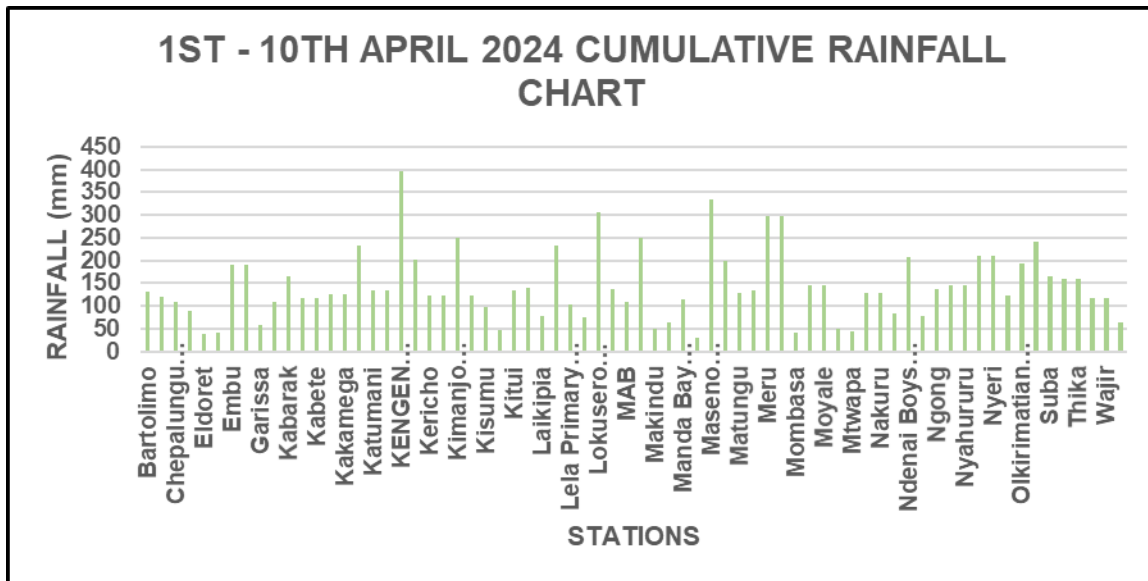


Fig 3.3

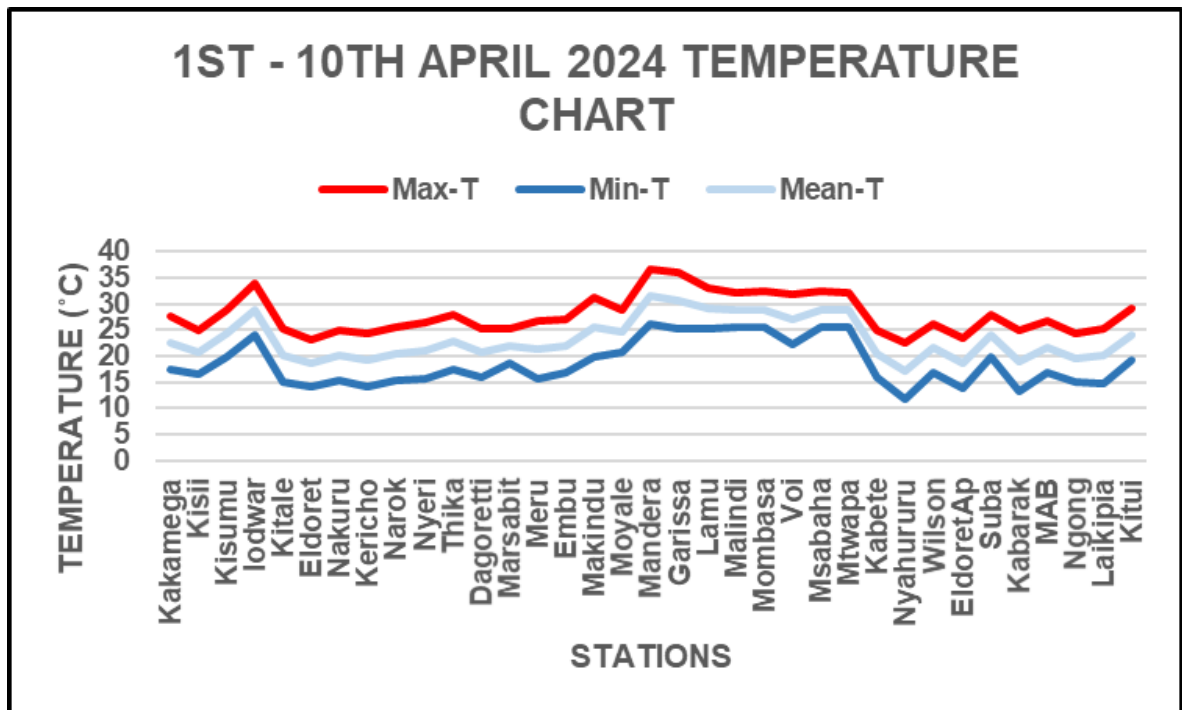


Fig 3.4

**4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 11<sup>TH</sup> – 20<sup>TH</sup> April 2024.**

In the Western and Nyanza regions, morning rains are likely to occur over few places. Afternoon and night showers are expected over several places, during the forecasted period.

In the Central region and Nairobi County, morning rains are likely to occur over few places. Afternoon and night showers are expected over several during the forecasted period

North Western, morning rains are likely over few places as well as afternoon and night showers over few places during the forecast period

North Eastern, morning rains as well as afternoon and night showers are expected over few places over the forecasted period.

Southeastern lowlands, morning rains are expected few over places. Afternoon and night showers are expected over several places throughout the forecasted period.

In the Coastal region, morning showers are expected over few places. Afternoon and night showers are

also expected in few over the entire forecasted period.

**4.1 AGRO – ADVISORY:**

- ❖ Farmers are advised to dig tunnels to drain stagnant water to improve soil aeration where there are drainage challenges. Should put in place soil erosion and weed control measures because of the expected enhanced rains.
- ❖ Pastoralists in North Western Kenya, North Eastern regions, South Rift Valley, and the South Eastern Lowland are advised to vaccinate, drench, and be on the lookout for disease outbreaks like Rift Valley fever foot and mouth disease.
- ❖ They should take advantage of the enhanced rains to harvest more water for use during dry periods. Grow and make proper use and preservation of pasture & forage.
- ❖ 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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For inquiries or any clarification, please use the contacts on the letterhead.



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