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# AGROMETEOROLOGICAL BULLETIN

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DEKAD 13 PERIOD: 1<sup>ST</sup> - 10<sup>TH</sup> APRIL 2024.

## 1.0 HIGHLIGHTS

- Most parts of the Country received moderate to heavy rainfall during the dekad.
- Kabarak station in Nakuru reported the highest amount of rainfall 217.2 mm, followed by Kakamega in the Western region with 179.8 mm. (Figures 3.1 and 3.3).
- Mean air temperature dropped over most parts of the country by more than 0.2°C (Figures 3.2 and 3.4).
- Total pan evaporation decreased over most stations due to declining temperatures and the prevailing cloudy conditions.
- During the next ten days, rainfall activities is expected to reduce over several parts of the country, except over the Highlands East and West of the Rift Valley, the Lake Victoria basin and the Coastal strip. Due to the improved weather activities, crops are expected to continue doing well over most parts of the country.

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

### 2.1 WESTERN AND NYANZA REGION

Most stations in the region reported increased rainfall compared to the previous dekad. Mean air temperature in the region ranged between 21.3°C to 24.4 °C. Broken cloud cover dominated the region throughout the dekad.

#### 2.11 KAKAMEGA:

The station reported a rainfall amount of 179.8 mm which was above its long-term mean.

The average mean air temperature at the station dropped from 23.2°C in the previous dekad. to 23.0°C, The station reported broken cloud cover throughout the dekad.

Maize is in the ninth leaf stage and beans are at the flowering stage and both crops are in good state.

## **2.12 KISII:**

The station recorded 172.1 mm of rainfall, which was above normal. Mean air temperature increased from 21.1°C to 21.3°C during the same period.

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

Maize crop is in the ninth leaf stage and beans are in the flowering stage and both crops are in good state.

## **2.20 RIFT VALLEY REGION**

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

Mean air temperature in the region ranged between 19.1 °C to 21.6 °C. Broken cloud cover was observed over most of the region during the dekad.

### **2.2.1 KITALE:**

The station recorded 73.5 mm of rainfall during the dekad. The mean air temperature increased slightly from 21.5°C to 21.6°C.

The station reported broken cloud cover during the dekad

Maize has attained ninth leaf stage and beans budding stage and both crops are in good state.

### **2.2.2 KERICHO:**

The station reported a rainfall amount of 170.7 mm which is above its long-term mean of 108.5 mm. Mean air temperature increased from 19.2 °C to 19.3°C.

The station reported broken cloud cover and total pan evaporation of 27.8 mm during the dekad

Maize has attained ninth leaf stage and beans flowering stage and both crops are in good state.

### **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 17.4°C and 22.0°C. Most stations from the region reported broken cloud cover throughout the dekad.

## **NYERI:**

The station reported a cumulative rainfall amount of 103.7 mm which was above the long term dekadal mean of 91.5mm. Mean air temperature slightly decreased from to 20.8°C to 20.5°C during the dekad.

Cloud cover was broken throughout the dekad.

Maize has attained the post-emergence stage and beans budding stage and both crops are in good state.

### **2.3.1 THIKA:**

The station received a rainfall amount of 168.7 mm which is above its long-term dekadal mean. Mean air temperature slightly decreased from to 22.3°C to 22.0°C during the dekad

The station reported broken cloud cover and total pan evaporation of 32.2 mm during the dekad.

Maize is in the emergence stage and beans are in the flowering. Excessive rainfall has affected normal growth of beans and below normal yield is expected.

### **2.3.2 DAGORETTI**

The station reported a cumulative amount of 105.4 mm which is above its long-term dekadal mean of 68.6 mm. The mean air temperature slightly decreased from 20.4 °C to 20.1 °C during the dekad. The station reported broken cloud cover during the dekad.

Maize is ninth leaf stage and beans flowering stage and both crops are in good state.

### **2.3.3 KABETE:**

The station reported a cumulative rainfall amount of 101.4 mm during the dekad. The mean air temperature at the station slightly decreased from 20.6°C to 19.9°C. The station reported broken cloud cover throughout the dekad.

Maize has attained emergence stage and beans budding stage and both crops are in good state due to good weather.

### **2.3.5 NYAHURURU:**

The station received rainfall amount of 117.7mm which was above its long-term mean of 44.1 mm. The mean air temperature at the station remained constant at 17.4°C. The station reported broken clouds covered throughout the dekad. Maize is in the emergence stage and beans flowering stage and both crops are in good state.

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

The Eastern region reported high rainfall compared to the previous dekad except in the southern lowland, like Voi and Makindu which recorded 3.2 mm and 13.1 mm respectively. (Fig 3.2). Mean air temperature ranged between 21.2°C and 24.9°C. Broken cloud cover dominated the region throughout the dekad.

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

The station recorded a cumulative rainfall amount of 74.6 mm which was slightly above the long-term decadal mean of 68.8 mm. Mean air temperature slightly decreased from 21.2°C to 20.1 °C.

Broken cloud cover 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 164.7 mm during the dekad. The mean air temperature during the dekad was 21.2°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 167.3 mm of rainfall which was above the long-term mean rainfall during the dekad.

A broken cloud state was 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 27.3°C and 28.7°C. Broken cloudy conditions was observed in the region throughout the dekad

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

The station recorded a rainfall amount of 68.6 mm which was below its long term dekad mean of 145.2mm. Mean air temperature slightly decreased from 28.3°C to 27.3°C. Broken cloud cover was observed all through the dekad.

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 120.1 mm during the dekad. The mean air temperature slightly decreased from 28.3°C to 28.1°C. Broken cloud cover was observed although the dekad

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 23.1°C to 29.6°C.

Broken cloud cover dominated the region all through the dekad.

Pasture and forage conditions are doing well due to the rains and water levels rising over several water/earth pans in the region.

# DEKAD 13 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

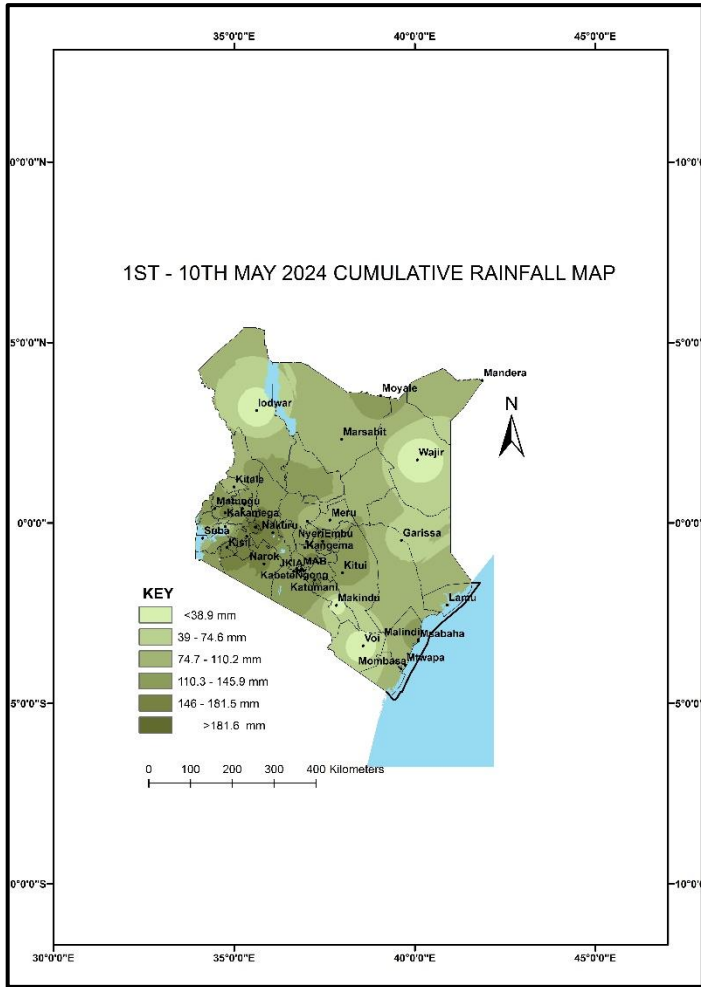


Fig: 3.1

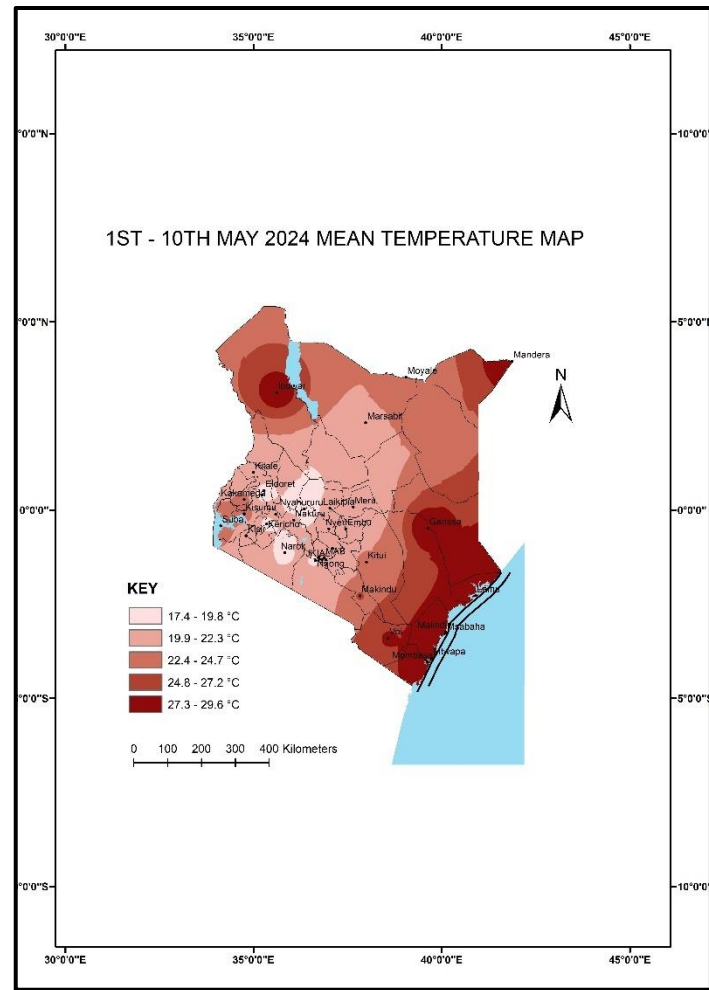


Fig: 3.2

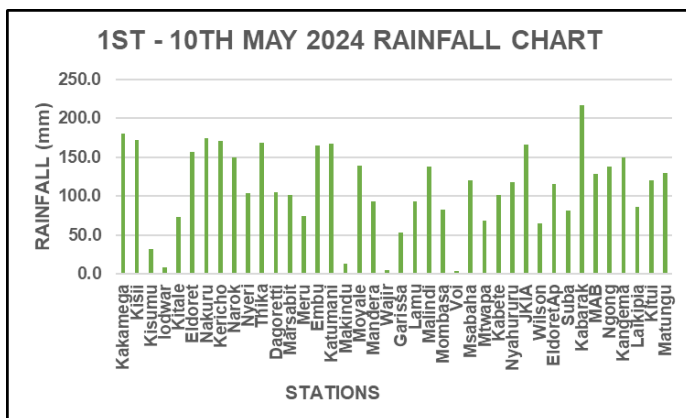


Fig: 3.3

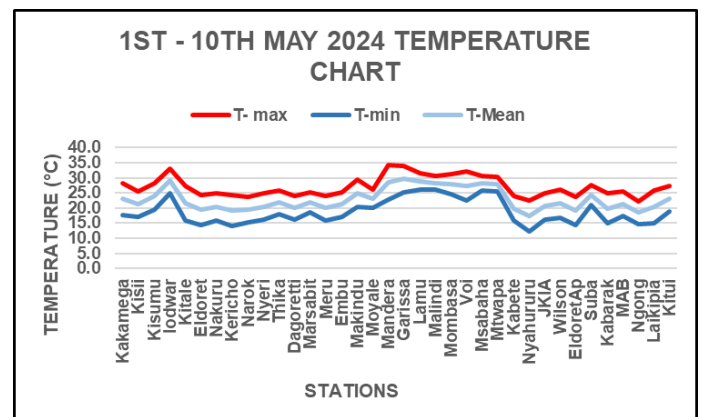


Fig: 3.4

Station	Total RF from start MAM 2024	Maximum consecutive days with RF $\geq$ 1.0 mm	Maximum consecutive dry days	Number of days RF $\geq$ 5.0 mm
Kakamega	657.83	8	14	31
Kisii	739.84	19	8	35
Kitale	380.2	7	12	22
Kericho	730.62	8	13	39
Nyeri	593.62	12	8	25
Thika	955.32	18	8	34
Dagoretti 1	1079.01	16	9	31
Meru	589.13	10	7	24
Embu	929.02	14	5	31
Katumani	827.33	8	8	24
Msabaha	309.42	5	11	12
Mtwapa	376.11	6	18	19
Kabete 1	1088.21	14	4	37
Nyahururu	489.14	13	14	23
Kabarak	664.02	13	11	27

**Fig: 3.5**

#### 4.0 EXPECTED WEATHER AND CROP

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

##### 11TH – 20TH MAY 2024.

In the Western and Nyanza regions, sunny intervals are expected in the morning with likelihood of light rains over few places. Afternoon showers are expected over few places. Nights are likely to be partly cloudy with occasional showers over few places.

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

In the Central region and Nairobi County, morning is likely to be cloudy breaking into sunny intervals. Afternoon and night showers are expected over few places during the forecasted period.

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

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

Pastures and forage regeneration are expected to improve since soil moisture is sufficient due to the past rains.

In southeastern lowlands, Sunny intervals are expected during the day while nights are likely to be partly cloudy.

Crops and pasture condition is expected to continue improving during the coming dekad due to sufficient soil moisture

In the Coastal region, sunny intervals are expected during the day while nights are likely to be partly cloudy. Occasional morning and afternoon showers may occur over a few places.

The expected precipitation is expected to benefit the crops in the field.

#### 4.1 AGRO-ADVISORY:

- ❖ Farmers are advised to dig tunnels to drain stagnant water. This will improve soil aeration over areas with drainage challenges.
- ❖ Should put in place soil erosion and weed control measures because of the ongoing 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 especially during this period of too much flooding everywhere. Grow and make proper use and preservation of pasture & forage.
- ❖ Grow and make proper use and preservation of pasture & forage.

- ❖ Communities should take advantage of the current rains to harvest water for use during dry periods.
- ❖ 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.
- ❖ Advocating for fertilizer use due to the likelihood of soil erosion

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**FOR:**