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**AGROMETEOROLOGICAL BULLETIN**

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**DEKAD 14 PERIOD: 21<sup>ST</sup> – 31<sup>ST</sup> MAY 2024.**

**2.0 WEATHER AND CROP REVIEW FOR THE  
21<sup>ST</sup> – 31<sup>ST</sup> MAY 2024.**

**1.0 HIGHLIGHTS**

- Few parts of the Country received moderate to heavy rainfall during the dekad.
- Lamu station reported the highest amount of rainfall of 229.7 mm, followed by Matungu in Western Kenya with 118.7 mm. (Figures 3.1 and 3.3).
- Mean air temperature decreased over most parts of the country during the current dekad. (Figures 3.2 and 3.4).
- Total pan evaporation increased over most stations due to low humidity levels and sunny conditions during the dekad.
- During the next ten days, rainfall activities are expected to reduce over most parts of the country, except over a few areas in the Highlands East and West of the Rift Valley, the Lake Victoria basin and the Rift Valley.
- North Western and North eastern, Sunny intervals during the day while partly cloudy during nights. South Eastern Lowland cloudy mornings with light rains over few places and afternoon showers.

**2.1 WESTERN AND NYANZA REGION**

Most stations in the region reported moderate to heavy rainfall though the amount was less than in the previous dekad. Mean air temperature in the region decreased and ranged between 21.7°C to 25.1 °C. Scattered cloud cover dominated the region throughout the dekad.

**2.1.1 KAKAMEGA:**

The station reported 70.3 mm of rainfall which was below its long-term mean.

The average mean air temperature at the station decreased from 23.4°C to 22.6°C. The station reported scattered cloud cover during the morning and broken in the afternoon.

Maize is in the flowering stage and in good state. Beans have attained full ripeness and most farmers have started harvesting beans and below normal yield is expected.

### **2.1.2 KISII:**

The station recorded 41.8 mm of rainfall, which was below normal. Mean air temperature remained the same as the previous dekad at 21.7°C.

The station reported scattered cloud cover during morning and broken cloud cover in the afternoon hours during the dekad.

Maize is in the flowering stage and in good state. Beans have attained full ripeness and most farmers have started harvesting beans and below normal yield is expected.

## **2.2 RIFT VALLEY REGION**

Most parts of the region reported increased rainfall compared to the previous dekad.

Mean air temperature in the region ranged between 18.5 °C to 20.8 °C. Broken cloud cover dominated the region during the dekad.

### **2.2.1 KITALE:**

The station recorded 72.5 mm of rainfall during the dekad. The mean air temperature decreased from 21.2°C to 20.8°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. Some farmers have started weeding.

### **2.2.2 KERICHO:**

The station reported a rainfall amount of 33.2 mm which is below its long-term mean of 76.5 mm. Mean air temperature remained the same as the previous dekad at 19.3°C.

The station reported scattered cloud cover during the morning and broken in the afternoon. Total pan evaporation was 39.1 mm during the dekad.

Maize has attained flowering stage and is in good state. Beans have also attained flowering stage and in good state.

## **2.3 CENTRAL AND NAIROBI REGION.**

Several stations reported increased rainfall compared to the previous dekad (Fig 3.3). Mean air temperature decreased in the region and ranged between 16.0°C and 21.5°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 9.8 mm which was below the long term dekad mean of 38.9 mm.

Mean air temperature slightly reduced from 21.0°C to 20.0°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 with no adverse effects.

### **2.3.2 THIKA:**

The station received a rainfall amount of 19.1 mm which was above its long-term dekad mean. Mean air temperature slightly decreased from 22.3°C to 21.5°C during the dekad

The station reported broken cloud cover during the whole dekad.

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

### **2.3.3 DAGORETTI**

The station reported a cumulative amount of 92.2 mm which was above its long-term dekad mean of 28.6 mm. The mean air temperature slightly decreased from 20.6 °C to 19.7 °C during the dekad. The station reported broken cloud cover during the dekad.

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

### **2.3.4 KABETE:**

The station reported a cumulative rainfall amount of 114.5 mm during the dekad. The mean air temperature at the station slightly decreased from 20.4°C to 19.7°C. The station reported broken cloud cover throughout the dekad.

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

### **2.3.5 NYAHURURU:**

The station received rainfall amount of 88.9 mm which was above its long-term mean of 20.7 mm. The mean air temperature at the station decreased from 16.5 to 16.0°C. The station reported few clouds covered during morning and broken cloud cover during afternoon.

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

## **2.4 EASTERN REGION:**

The Eastern region reported less rainfall compared to the previous dekad. Meru, Embu and Machakos recorded 6.0 mm, 22.1 mm and 1.0 mm respectively. (Fig 3.2). Mean air temperature ranged between 19.3°C and 21.9°C. Broken cloud cover dominated the region throughout the dekad.

### **2.4.1 MERU:**

The station recorded a cumulative rainfall amount of 6.0 mm which was below the long-term decadal mean of 22.6 mm. Mean air temperature slightly decreased from 20.5°C to 19.3 °C.

Scattered cloud cover was observed during morning and broken during afternoon.

Maize has attained wax ripeness stage and beans ripeness stage and both crops are in good state.

### **2.4.2 EMBU:**

The station reported a cumulative rainfall amount of 22.1 mm which was below its long term mean of 27.7mm during the dekad. The mean air temperature slightly decreased from 21.2°C to 20.2 °C during the dekad.

The station reported broken cloud cover throughout the dekad

Maize is at flowering stage and in a good state. Beans have attained maturity but were affected by excessive rainfall during the season.

### **2.4.3 KATUMANI:**

The station reported 1.0 mm of rainfall which was below the long-term mean of 8.1 mm.

Broken cloud cover was reported during the dekad.

Maize and beans have attained flowering stage, both crops have started showing signs of water stress due to the dry spells within the season.

## **2.5 COASTAL REGION:**

The Coastal region reported increased rainfall from the previous dekad. The mean air temperature ranged between 25.9°C and 28.0°C. Scattered cloud cover dominated the dekad.

### **2.5.1 MTWAPA:**

The station recorded 17.3 mm of rainfall which is below its long term dekad mean of 105.4mm. Mean air temperature decreased from 28.1°C to 25.9°C. Broken cloud cover was observed in the morning and scattered in the afternoon.

Both maize and beans have attained the emergence and flowering stage respectively and are in a good state. Maize is being affected by insect pests, birds and wild animals.

**2.5.2 MSABAHA:**

The station reported 10.1 mm of rainfall during the dekad. The mean air temperature slightly decreased from 28.5°C to 27.9°C. Scattered clouds cover was observed throughout the dekad

Both maize and beans have attained the emergence stage and insufficient rainfall is affecting their normal growth.

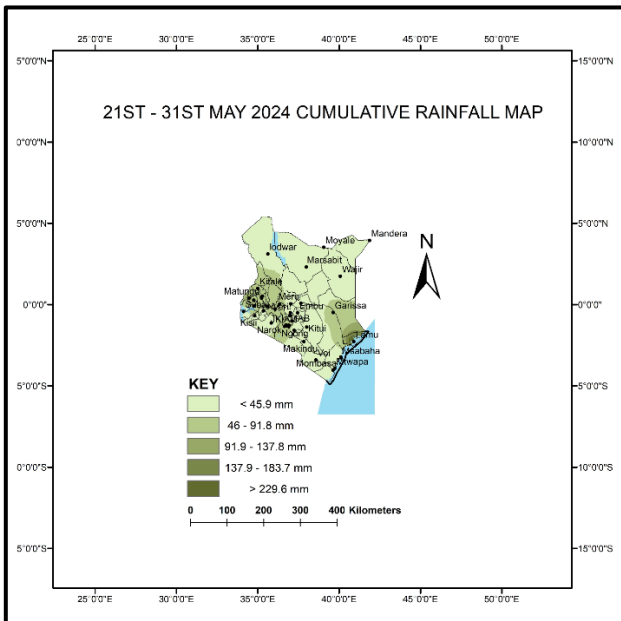
**2.6 NORTH EASTERN REGION:**

Most stations in the region reported no rainfall during the dekad except Garissa which reported 73.0 mm. Mean air temperature ranged between 22.6°C to 29.5°C.

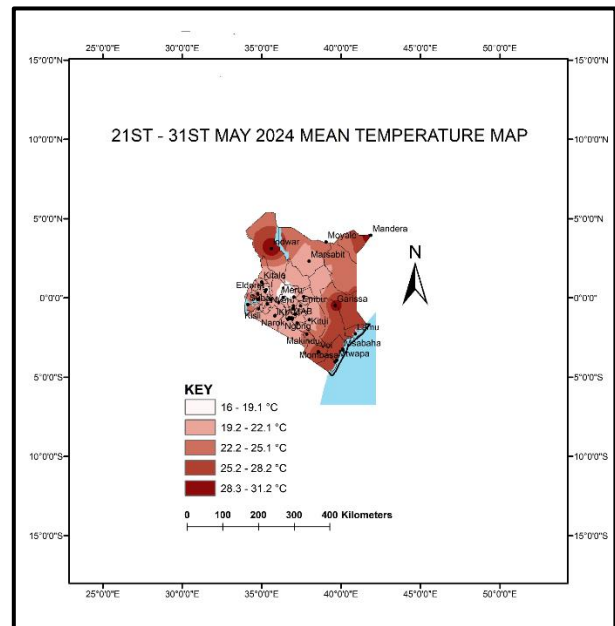
Broken clouds cover dominated the region throughout the dekad.

Pasture and forage conditions remain good due to cool and cloudy conditions and the light rains that some parts continue to receive.

**DEKAD 15 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES**



**Fig: 3.1**



**Fig: 3.2**

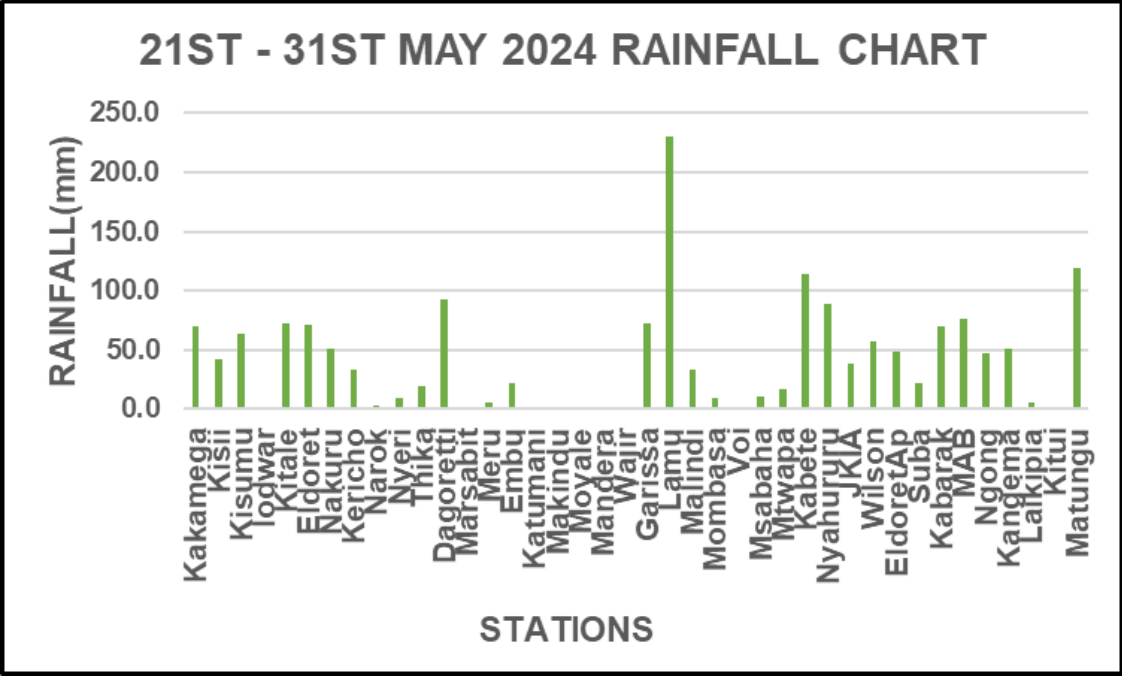


Fig 3.3

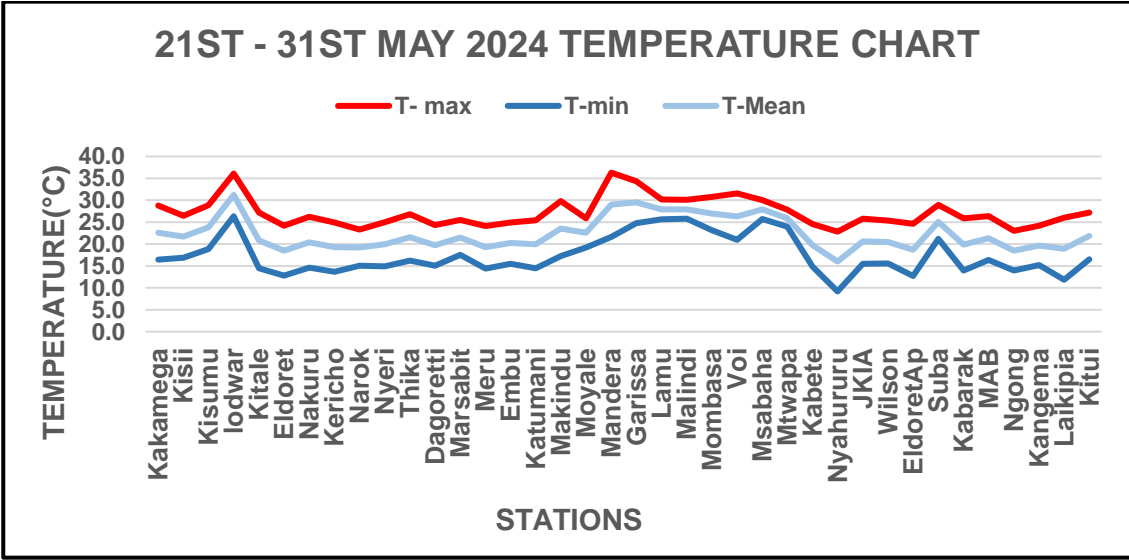


Fig 3.4

Station	Total RF from start MAM 2024	Maximum consecutive days with RF $\geq$ 1.0 mm	Maximum consecutive dry days during the season	Number of days RF $\geq$ 5.0 mm
Kakamega	862.0	8	14	38
Kisii	868.8	19	8	44
Kitale	476.8	7	12	27
Kericho	832.5	8	13	47
Nyeri	624.1	12	8	28
Thika	1008.4	18	8	37
Dagoretti	1253.6	16	9	36
Meru	649.4	10	9	26
Embu	956.0	14	7	33
Katumani	830.4	8	8	24
Msabaha	320.0	5	11	13
Mtwapa	393.4	6	18	21
Kabete	1261.1	14	5	42
Nyahururu	607.7	13	14	28
Eldoret Kapsoya	484.1	6	14	29

**Fig: 3.5**

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

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

**1ST – 10TH JUNE 2024.**

In the Western and Nyanza regions, sunny intervals are expected in the morning with likelihood of light rains over few places in afternoon. Nights are likely also to receive showers over few places during the forecasted period.

The crops are expected to continue growing well due to favorable weather conditions.

In the Central region and Nairobi County, morning is likely to be cloudy, with light rains over few places giving way to sunny intervals. Afternoon and night showers are expected over few places.

The crops are expected to continue growing well due to favorable weather conditions.

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 remain in good condition since soil moisture is still sufficient from the past rains.

In southeastern lowlands, mornings are likely to be cloudy with light rains over few places. Light afternoon showers expected over few places during first half of the forecasted period 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. There is a possibility of occasional morning showers occurring over few places.

Crop condition is expected to continue improving during the coming dekad due to sufficient soil moisture

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

- ❖ Farmers should focus on weed control measures to minimize competition for moisture and nutrients
- ❖ Pastoralists in North Western Kenya, North Eastern regions, should make proper use of pasture & forage and employ right preservation and storage means.

- ❖ 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.

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For inquiries or any clarification, please use the contacts on the letterhead.



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