



REPUBLIC OF KENYA  
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE & FORESTRY  
KENYA METEOROLOGICAL DEPARTMENT  
Dagoretti Corner, Ngong Road, P. O. Box 30259-00100, GPO, Nairobi, Kenya  
Telephone: +254 (0) 20 38567880-7, +254 724 255 153-4  
E-mail: [director@meteo.go.ke](mailto:director@meteo.go.ke), [info@meteo.go.ke](mailto:info@meteo.go.ke) Website: <http://www.meteo.go.ke>

# AGROMETEOROLOGICAL BULLETIN

Ref: MET/8 /001 / 1

Issue No: 32/2024

Date: 22/11/2024

DEKAD 32 PERIOD: 11<sup>TH</sup> – 20<sup>TH</sup> NOVEMBER 2024.

## 1.0 HIGHLIGHTS

- Throughout the period under review a majority of the regions in the country experienced increased rainfall amounts in comparison to the previous dekad.
- Kitui station in the Eastern region recorded the highest amount of rainfall of 197.0 mm followed by Kangema in the Central region with 158.3 mm. (see **Figures 3.1 and 3.3**).
- The mean air temperature displayed a slight decrease over several parts of the country as a result of the increased cloud cover and humid environment. (see **Figures 3.2 and 3.4**).
- Total pan evaporation readings showed a significant decrease over most stations compared to the previous dekad; due to decreased temperatures, humid environment and increased cloud cover.
- During the next ten days Rainfall is expected to continue over the Highlands East and West of the Rift

Valley, the Lake Victoria Basin, the Rift Valley, the South-eastern lowlands, the Coast, North-western and North eastern Kenya. Isolated heavy rainfall events may occur over some parts of these regions.

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

### 2.1 WESTERN AND NYANZA REGION

Most stations in the region reported increased rainfall compared to the previous dekad. Suba station documented the highest amount of 125.1 mm followed by Matungu station with 80.8 mm. Mean air temperature in the region ranged between 20.8°C to 25.1 °C. Broken cloud cover dominated the region throughout the dekad.

#### 2.11 KAKAMEGA:

The station reported a rainfall amount of 72.6 mm which was above its long-term mean of 51.0 mm.

The average mean air temperature at the station slightly increased from 22.0°C to 22.2°C, the station reported scattered cloud cover in the morning and broken cloud cover in the afternoon during the dekad.

Maize crop is at post emergence stage, beans are in the flowering stage. Both crops are corresponding to the normal growth.

### **2.12 KISII:**

The station recorded 68.0 mm of rainfall, which was normal during the dekad. Mean air temperature slightly decreased from 21.0°C to 20.8°C during the same period.

The station reported broken cloud cover throughout the dekad.

Both maize and bean crops have reached flowering stage and are in good state.

### **2.2.0 RIFT VALLEY REGION**

Most stations within the region reported decreased rainfall during dekad. Kericho and Laikipia stations recorded 33.1 mm and 19.5 mm respectively.

Mean air temperature in the region ranged between 17.6 °C and 19.8 °C.

Broken cloud cover dominated over most parts of the region during the dekad.

#### **2.2.1 KITALE:**

The station recorded 5.9 mm of rainfall during the dekad. The mean air temperature decreased from 20.1°C to 19.8°C.

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

Farmers have harvested their crops.

#### **2.2.2 KERICHO:**

The station reported rainfall amount of 33.1 mm which is below its long-term mean of 53.9 mm. Mean air temperature decreased from 21.8 °C to 18.1 °C

The station reported broken clouds cover all through during the dekad.

Both maize and beans crops are at flowering stage and corresponding to the normal growth.

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

Most stations in the region reported increased rainfall compared to the previous dekad (Fig 3.3). Mean air temperature decreased in the region and ranged between 15.0°C and 21.1°C. Most stations from the region reported broken cloud cover throughout the dekad.

#### **2.3.1 NYERI:**

The station reported rainfall amount of 35.7 mm which was below the long term dekadal mean of 37.7 mm. Mean air temperature slightly decreased from 20.8°C to 19.2°C during the dekad.

Cloud cover was broken throughout the dekad.

Both maize and beans crops are at emergence stage and in fair state.

#### **2.3.2 THIKA:**

The station received a rainfall amount of 128.5 mm which is above its long-term dekadal mean of 65.6 mm. Mean air temperature decreased from 22.1°C to 21.1°C during the dekad.

The station reported broken cloud cover during the dekad.

Both maize and beans are at emergence stage and corresponding to the normal growth owing to the sufficient rains in the region.

#### **2.3.3 DAGORETTI**

The station reported cumulative rainfall amount of 83.4 mm which is above its long-term dekadal mean of 48.7 mm. The mean air temperature decreased from 20.5°C to 19.7°C. The station reported broken cloud cover throughout the dekad.

Both maize and beans are at emergence stage and in fair state due to the prevailing OND rains.

#### **2.3.4 KABETE:**

The station reported cumulative rainfall amount of 115.7 mm during the dekad. The mean air temperature at the station decreased from 19.8°C to 19.1°C. The station reported broken cloud cover throughout the dekad.

Maize and Beans are at emergence and corresponding to the normal growth due to sufficient precipitation.

### **2.3.5 NYAHURURU:**

The station received rainfall amount of 15.9 mm which was below its long-term mean of 18.3 mm. The mean air temperature at the station slightly decreased from 15.1°C to 15.0°C. The station reported broken clouds cover throughout the dekad. Maize has attained full ripeness and ready for harvest. Above normal yield is expected.

### **2.4.0 EASTERN REGION:**

Several stations in the region reported increased rainfall compared to the previous dekad. Kitui station recorded the highest amount of 197.0 mm followed by Embu with 129.8 mm during the dekad. (see Fig 3.3). Mean air temperature ranged between 19.8°C and 25.1°C. Broken cloud cover dominated the region throughout the dekad.

#### **2.4.1 MERU:**

The station recorded cumulative rainfall amount of 125.3 mm which was above the long-term dekadal mean of 120.4 mm. Mean air temperature decreased from 20.6°C to 19.9°C.

Broken clouds cover was recorded throughout the period under review.

Both maize and beans crops are at post emergence stage and corresponding to the normal crop growth.

#### **2.4.2 EMBU:**

The station received cumulative rainfall amount of 129.8 mm. The mean air temperature observed under the same period slightly decreased from 21.8 °C to 20.5°C.

The station reported broken cloud cover throughout the dekad.

Maize and beans are at emergence stage and in fair state.

### **2.4.3 KATUMANI:**

The station recorded rainfall amount of 44.1 mm during the dekad.

The mean air temperature decreased from 21.1°C to 19.8°C.

Broken clouds cover was reported throughout the dekad.

Both maize and bean crops are at emergence stage and in good state.

### **2.5.0 COASTAL REGION**

Most stations in the region reported increased rains in respect to the previous dekad. The mean air temperature ranged between 28.0°C and 29.1°C. Scattered and broken clouds cover conditions were observed in different parts of the region during the dekad.

#### **2.5.1 MTWAPA:**

The station recorded a rainfall amount of 22.5 mm which was below its long term dekadal mean of 43.0 mm. Mean air temperature slightly increased from 28.2°C to 28.5°C. Broken cloud cover was reported all through during the dekad.

Maize is at emergence and corresponding to the normal growth.

#### **2.5.2 MSABAHA:**

The station reported a rainfall amount of 33.3 mm during the dekad. The mean air temperature slightly increased from 28.1°C to 28.2°C. Broken clouds cover was reported in the morning hours and Scattered clouds cover in the afternoon hours during the dekad.

No activities happening on the farms as the lands are lying fallow.

### **2.6.0 NORTH EASTERN REGION:**

The region received significant rains during the dekad with Garissa station recording the highest amount of 84.8 mm.

Mean air temperature reduced in the region and ranged between 29.5°C and 30.0°C. Broken clouds cover dominated over several parts of the region during the dekad.

### DEKAD 32 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

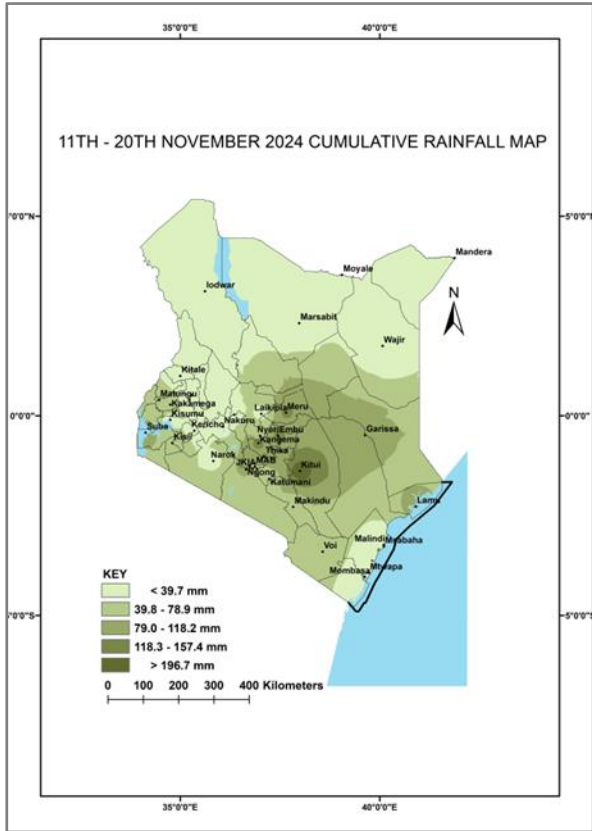


Fig: 3.1

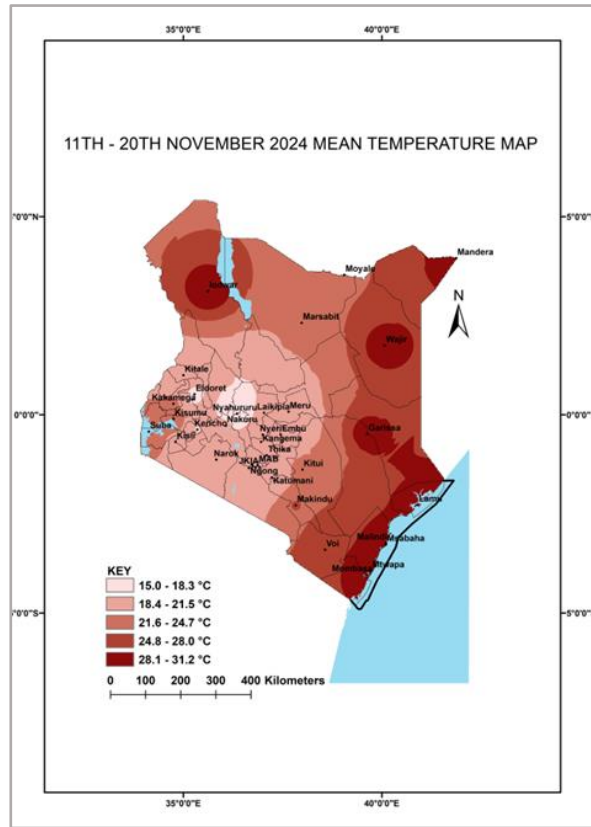


Fig 3.2

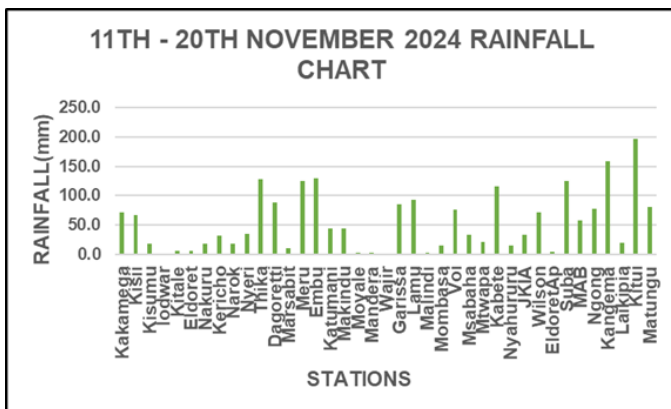


Fig: 3.3

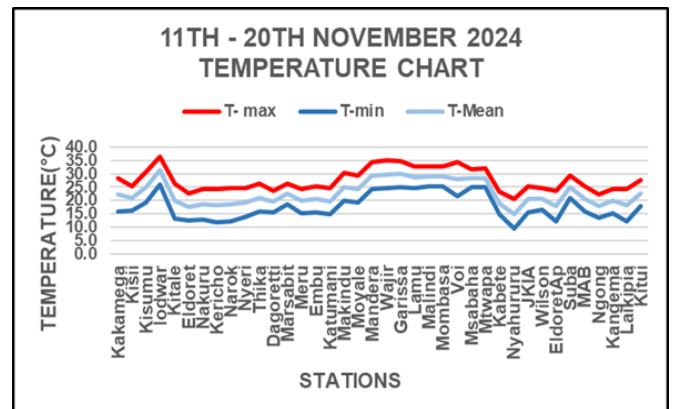


Fig: 3.4

Station	Maximum consecutive wet days during the dekad	Maximum consecutive dry days during the dekad	Days with moderate or heavy RF during the dekad	Total rainfall from the start of OND 2024 season
Kakamega	3	1	4	308.1
Kisii	5	1	5	312.7
Kitale	1	3	0	176.9
Kericho	4	1	2	288.6
Nyeri	3	2	1	99.5
Thika	3	2	5	263.9
Dagoretti	2	1	2	126.9
Meru	3	2	3	282.2
Embu	3	2	3	254.1
Katumani	5	2	3	95.5
Msabaha	1	3	2	112.8
Mtwapa	2	5	1	106.0
Kabete	6	1	4	197.2
Nyahururu	1	2	1	119.8

Fig: 3.5

#### 4.0 EXPECTED WEATHER AND CROP CONDITIONS

##### DURING THE NEXT TEN (10) DAYS; 21ST – 30TH

##### NOVEMBER 2024.

In the **Highlands West of Rift valley, Lake Victoria Basin and the Rift valley and Nyanza regions**, Morning rains are expected over few places. Afternoon and night

showers are expected over few places occasionally spreading to several places during the forecast period.

In the **Central region and Nairobi County**, Morning rains are expected over few places. Afternoon and night showers are likely to occur over few places occasionally spreading to several places.

The crops and pastures in the region are expected to benefit from the expected rains.

In **North Western** Morning rains as well as afternoon and night showers are expected over few places.

In **North Eastern**, Morning rains as well as afternoon and night showers are expected over few places occasionally spreading to several places.

Pastures and forage are expected to rejuvenate due to the expected rains in the region.

In **south-eastern lowlands**, Morning rains as well as afternoon and night showers are expected over few places occasionally spreading to several places.

Crops and pasture condition is expected to rejuvenate owing to the expected rains.

In the **Coastal region**, Morning, afternoon and night showers are expected over few places occasionally spreading to several places.

Crops and pastures conditions in the region is expected to improve positively due to the expected showers over the region.

#### 4.1 AGRO-ADVISORY:

Farmers are advised to make the best of the amount of moisture in the soil by planting different crop varieties like sweet potatoes, cassava etc. to enhance the food security in the land.

Farmers are advised to grow short maturing and drought resistant crops due to the expected depressed rains over Eastern Kenya.

Pastoralists are advised on conservation of the current forage crop.

Appropriate grazing during the current season to maintain plant vigor-this will ensure survival during the depressed rain season and recovery after drought.

Enhance offtake to facilitate conservative stocking rate during the OND.

Offtake before the droughts starts to receive better prices.

Farmers should ensure proper storage of cereals in dry and cool places to avoid food contamination.

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.

The National and County Governments should make an effort to avail subsidized satisfied seeds, fertilizers and farm chemicals to make them affordable to many farmers.

---

**For inquiries or any clarification, please use the email below**



**Mary Githinji**

**Email: [Agrometkenya@gmail.com](mailto:Agrometkenya@gmail.com)**