



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, info@meteo.go.ke Website: <http://www.meteo.go.ke>

AGROMETEOROLOGICAL BULLETIN

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Victoria Basin, the Rift Valley and the North-western Kenya.

DEKAD 28 PERIOD: 1ST – 10TH OCTOBER 2024.

1.0 HIGHLIGHTS

- A few parts of the Country recorded moderate to heavy rainfall during the dekad.
- Kisii station in Nyanza region reported the highest amount of rainfall of 115.5 mm, followed by Kericho in the Rift Valley region with 77.6 mm. (**Figures 3.1 and 3.3**).
- During the dekad, mean air temperature increased over several parts of the country possibly due to decreased cloud cover over several parts of the country. (**Figures 3.2 and 3.4**).
- Total pan evaporation increased over several stations due to increased temperatures.
- During the next ten days Rainfall is expected over the Highlands East and West of the Rift Valley, the Lake

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD 1ST – 10TH OCTOBER 2024.

2.1 WESTERN AND NYANZA REGION

Most stations in the region reported decreased rainfall compared to the previous dekad. Kisii station recorded the highest amount of 115.5 mm followed by Kakamega station with 19.9 mm. Mean air temperature in the region ranged between 21.4°C to 25.6 °C. Scattered cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 19.9 mm which was below its long-term mean of 59.9 mm.

The average mean air temperature at the station slightly increased from 22.0°C to 22.1°C, the station reported few clouds cover in the morning and broken cloud cover in the afternoon during the dekad.

First weeding is ongoing in a few farms.

KISII:

The station recorded 115.5 mm of rainfall, which was above its long-term mean. Mean air temperature increased from 21.3°C to 21.4°C during the same period.

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

Crops are doing well due to good rains.

2.2.0 RIFT VALLEY REGION

Most stations within the region reported less rainfall compared to the previous dekad. Kericho and Eldoret Airport recorded 77.6 mm 49.1 mm respectively.

Mean air temperature in the region ranged between 17.8 °C to 20.0 °C. scattered cloud cover was observed over most parts of the region during the dekad.

2.2.1 KITALE:

The station recorded 18.0 mm of rainfall during the dekad. The mean air temperature increased slightly from 19.8°C to 20.0°C.

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

Land preparations are ongoing.

2.2.2 KERICHO:

The station reported a rainfall amount of 77.6mm which is above its long-term mean of 59.2 mm. Mean air temperature decreased slightly from 18.5°C to 18.0°C.

The station reported broken cloud cover throughout the dekad.

Land preparations are ongoing for the next growing season.

2.3.0 CENTRAL AND NAIROBI REGION.

Most stations in the region reported reduced rainfall compared to the previous dekad (Fig 3.3). Mean air temperature decreased in the region and ranged between 15.2°C and 20.4°C. Most stations from the region reported broken cloud cover during the dekad.

2.3.1 NYERI:

The station reported rainfall amount of 2.9 mm which was below the long term dekadal mean of 25.8 mm. Mean air temperature slightly decreased from 20.6°C to 20.4°C during the dekad.

Cloud cover was broken throughout the dekad.

Land preparations are ongoing.

2.3.2 THIKA:

The station received a rainfall amount of 2.5 mm which is below its long-term dekadal mean. Mean air temperature decreased from 21.8°C to 20.4°C during the dekad.

The station reported broken cloud cover and total pan evaporation of 30.5 mm during the dekad.

Land preparations are ongoing for next cropping season.

2.3.3 DAGORETTI

The station reported cumulative rainfall amount of 0.1 mm which is below its long-term dekadal mean of 12.4 mm. The mean air temperature slightly reduced from 19.8°C to 19.6°C. The station reported broken cloud cover throughout the dekad.

Land preparation is ongoing for the next growing season.

2.3.4 KABETE:

The station reported cumulative rainfall amount of 11.6 mm during the dekad. The mean air temperature at the station decreased from 19.3°C to 19.1°C. The station reported broken clouds cover in the morning and scattered cloud cover in the afternoon during the dekad.

Land preparations are ongoing for the next growing season.

2.3.5 NYAHURURU:

The station received rainfall amount of 5.1 mm which was below its long-term mean of 23.7 mm. The mean air temperature at the station slightly decreased from 15.3°C to 15.2°C. The station reported scattered clouds cover in the morning and broken cloud cover in the afternoon. Land preparations are going on for the next crop season.

2.4.0 EASTERN REGION:

The Eastern region reported reduced rainfall compared to the previous dekad with Meru, Embu and Kitui reporting 0.2 mm, 0.2 mm and 0.6 mm respectively. (Fig 3.3). Mean air temperature ranged between 20.4°C to 24.3°C. Scattered cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded cumulative rainfall amount of 0.2 mm which was below the long-term decadal mean of 36.3 mm. Mean air temperature increased from 19.5°C to 20.4 °C.

Broken cloud cover was observed in the morning and scattered in the afternoons during the dekad.

Tilling of farms is ongoing for the next cropping season.

2.4.2 EMBU:

The station received cumulative rainfall amount of 0.2 mm. The mean air temperature observed under the same period slightly increased from 21.7 °C to 21.8°C.

The station reported broken cloud cover throughout the dekad.

Land preparations is ongoing.

2.4.3 KATUMANI:

The station remained dry throughout the dekad.

Temperatures slightly increased from 20.4 °C to 20.5 °C.

A broken clouds cover was reported in the morning hours while scattered clouds cover was reported in the afternoons during the dekad.

Land preparations are ongoing.

2.5.0 COASTAL REGION

The Coastal region reported increased rains compared to the previous dekad. The mean air temperature ranged between 25.7°C and 28.5°C. Scattered cloudy conditions dominated the region during the dekad.

2.5.1 MTWAPA:

The station recorded a rainfall amount of 25.9 mm which was below its long term dekadal mean of 33.0mm. Mean air temperature slightly increased from 26.6°C to 26.9°C. Broken cloud cover was reported in the morning hours and scattered cloud cover in the afternoon hours during the dekad.

Farm preparations are ongoing in readiness for the next growing season.

2.5.2 MSABAHA:

The station reported a rainfall amount of 0.7 mm during the dekad. The mean air temperature remained unchanged at 27.0°C. Broken cloud cover was reported in the morning hours and scattered cloud cover in the afternoon hours during the dekad.

Farm preparations ongoing for the next growing season.

2.6.0 NORTH EASTERN REGION:

The region reported increased rains compared to the previous dekad with Garissa recording 1.6 mm. Mean air temperature ranged between 29.8°C to 31.5°C.

The region reported broken clouds cover in the mornings and scattered clouds cover in the afternoons throughout the dekad.

DEKAD 28 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

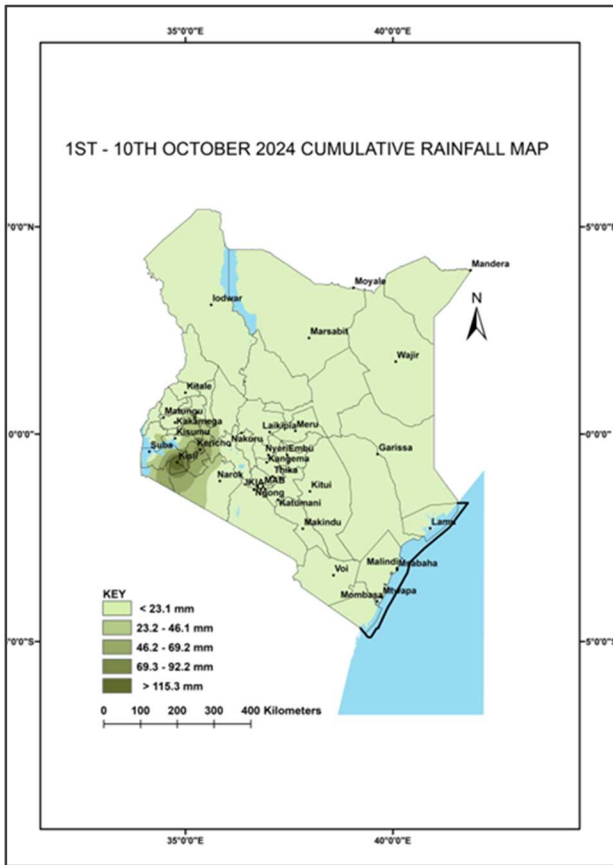


Fig: 3.1

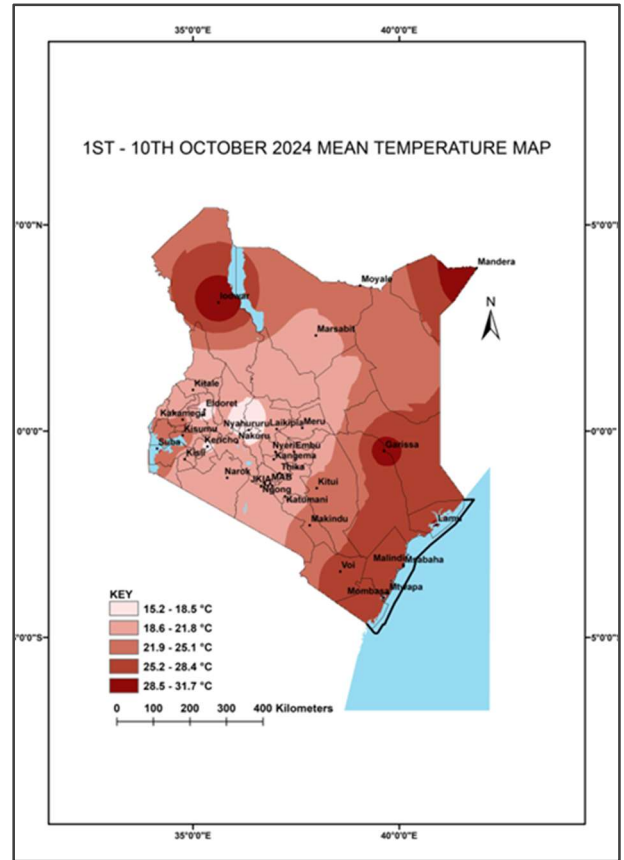


Fig 3.2

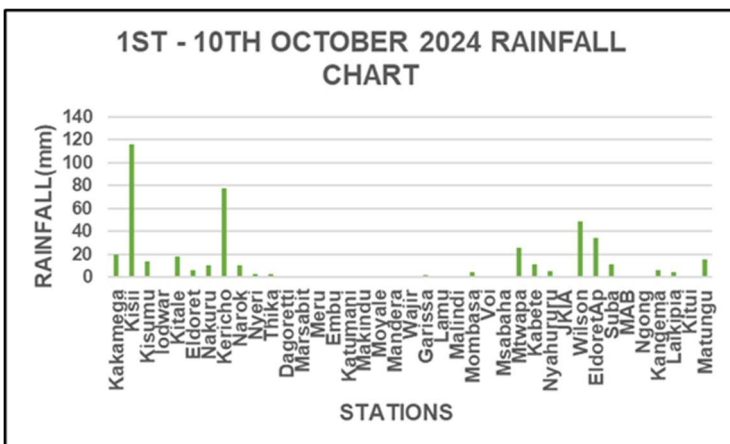


Fig: 3.3

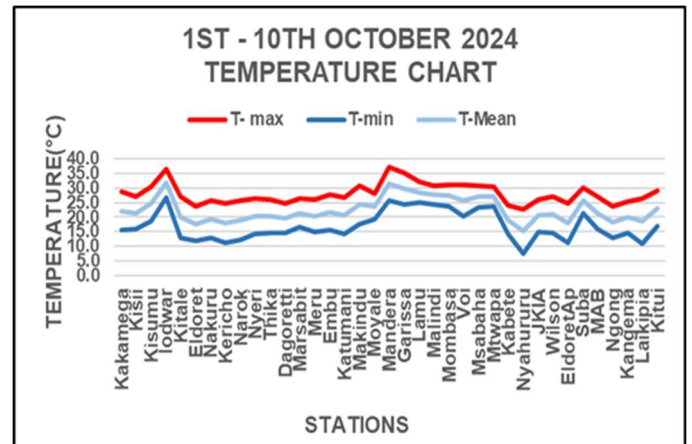


Fig: 3.4

Station	Maximum consecutive wet days during the dekad	Maximum consecutive dry days during the dekad	Days with moderate or heavy RF during the dekad
Kakamega	6	2	1
Kisii	6	2	7
Kitale	2	4	1
Kericho	4	2	2
Nyeri	1	3	0
Thika	1	5	0
Dagoretti	0	4	0
Meru	0	8	0
Embu	0	3	0
Katumani	0	9	0
Msabaha	0	5	0
Mtwapa	1	3	1
Kabete	2	4	1
Nyahururu	1	4	0

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS

DURING THE NEXT TEN (10) DAYS; 11TH – 20TH

OCTOBER 2024.

In the **Highlands West of Rift valley, Lake Victoria Basin and the Rift valley and Nyanza regions**, Morning rains are likely to occur over few places. Afternoon showers and thunderstorms are expected over several places. Night showers are likely to occur over few places occasionally spreading to several places.

In the **Central region and Nairobi County**, Intermittent cloudiness and light rains are expected over few places in the mornings giving way to sunny intervals. Afternoon showers are likely to occur over several places. Nights are likely to be partly cloudy though occasional showers may occur over few places.

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

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

In **North Eastern**, Sunny intervals are expected during the day while nights are likely to be partly cloudy. However, morning rains as well as afternoon and night showers may occur over some parts of Marsabit county.

Pastures and forage are expected to suffer due to the dry weather expected in the region.

In **south-eastern lowlands**, Sunny intervals are expected during the day while nights are likely to be partly cloudy. However, morning rains as well as afternoon and night showers may occur over few places during the second half of the forecast period.

Crops and pasture condition may deteriorate due to prolonged dry spell being experienced in region.

In the **Coastal region**, Sunny intervals are expected during the day while nights are likely to be partly cloudy.

Crops and pastures conditions in the region is expected to suffer due to long spell of drought in the area.

4.1 AGRO-ADVISORY:

Farmers are advised to make early land preparations and early planting in order to enhance the crop yields and ensure the food security.

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