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MINISTRY OF ENVIRONMENT, CLIMATE CHANGE & FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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AGROMETEOROLOGICAL BULLETIN

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DEKAD 30 PERIOD: 21ST – 31ST OCTOBER 2024.

1.0 HIGHLIGHTS

- The Country recorded moderate to heavy rainfall during the dekad. Several stations reported rainfall amount ranging between 4.6 mm in Mtwapa in Coastal region to 83.4 mm in Matungu station in Western region
- Matungu and Kakamega stations in Western region reported the highest amount of rainfall of 83.4 mm and 67.8 mm respectively. (Figures 3.1 and 3.3).
- Temperatures increased over most parts of the country due to decreased cloud cover and change in the wind direction mostly the North Easterly (Figures 3.2 and 3.4).

- Total pan evaporation increased over several stations due to increased temperatures reduction in cloud cover.

- During the next ten days, rainfall is expected over the Highlands East and West of the Rift Valley, the Lake Victoria Basin, the Rift Valley, the South-eastern lowlands, the Coast and the North-western Kenya.

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD

21ST – 31ST OCTOBER 2024.

2.1 WESTERN AND NYANZA REGION

Most stations in the region reported decreased rainfall compared to the previous dekad. Matungu station recorded the highest amount of 83.4 mm followed by Kakamega station with 67.8 mm. Mean air temperature in the region ranged between 21.4°C to 25.0 °C. Scattered cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 67.8 mm which was more than its long-term mean of 54.1 mm.

The average mean air temperature at the station slightly increased from 22.6°C to 22.7°C, the station reported scattered cloud cover in the morning and broken cloud cover in the afternoon during the dekad.

Maize crop is at the emergence stage, beans are in the flowering stage. Both crops are in good state.

2.12 KISII:

The station recorded 39.2 mm of rainfall, which was below its long-term mean. Mean air temperature slightly increased from 21.2°C to 21.4°C during the same period.

The station reported broken cloud cover throughout the dekad.

Both crops are in good state.

2.2.0 RIFT VALLEY REGION

All the stations within the region reported reduced rainfall during dekad. Kericho and Kitale stations recorded 36.3 mm and 31.0 mm respectively.

Mean air temperature in the region ranged between 18.6 °C to 21.0 °C.

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

2.2.1 KITALE:

The station recorded 31.0 mm of rainfall during the dekad. The mean air temperature increased from 20.4°C to 21.0°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 rainfall amount of 36.3 mm which is below its long-term mean of 81.8 mm. Mean air temperature remained unchanged at 18.0°C.

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

Both crops are at emergence and in good state.

2.3.0 CENTRAL AND NAIROBI REGION.

Most stations in the region reported below normal rainfall compared to the long-term mean (Fig 3.3). Mean air temperature increased in the region and ranged between 15.7°C and 22.9°C. Most stations from the region reported scattered cloud cover during the dekad.

2.3.1 NYERI:

The station reported rainfall amount of 1.5 mm which was below the long term dekadal mean of 61.3 mm. Mean air temperature slightly increased from 20.8°C to 21.2°C during the dekad.

Cloud cover was scattered throughout the dekad.

Land preparations is complete and farmers are waiting for the onset of rains.

2.3.2 THIKA:

The station received a rainfall amount of 4.2 mm which is below its long-term dekadal mean of 44.1 mm. Mean air temperature increased from 22.3°C to 22.9°C during the dekad.

The station reported scattered cloud cover during the dekad.

Land preparations is complete, farmers are waiting for the rains.

2.3.3 DAGORETTI

The station reported cumulative rainfall amount of 0.0 mm which is below its long-term dekad mean of 35.7 mm. The mean air temperature increased from 20.5°C to 21.3°C. The station reported broken cloud cover throughout the dekad.

Land preparations is complete, farmers are waiting for the rains to start planting.

2.3.4 KABETE:

The station reported cumulative rainfall amount of 0.0 mm during the dekad. The mean air temperature at the station increased from 19.7°C to 20.4°C. The station reported scattered cloud cover throughout dekad.

A few farmers have planted, many have opted to wait for the rains.

2.3.5 NYAHURURU:

The station received rainfall amount of 0.0 mm which was below its long-term mean of 33.1 mm. The mean air temperature at the station slightly increased from 15.4°C to 15.7°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 growing season.

2.4.0 EASTERN REGION:

All the stations in the region reported nil rainfall during the dekad. (Fig 3.3). Mean air temperature ranged between 25.1°C to 26.0°C. Scattered cloud

cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded cumulative rainfall amount of 0.0 mm which was below the long-term dekad mean of 126.3 mm. Mean air temperature increased from 20.9°C to 21.0°C.

Scattered cloud cover was recorded through the dekad.

Tilling of farms is ongoing for the next cropping season.

2.4.2 EMBU:

The station received cumulative rainfall amount of 0.0 mm. The mean air temperature observed under the same period slightly increased from 22.0 °C to 22.7°C.

The station reported scattered cloud cover throughout the dekad.

Most farmers have completed planting but the rains are not yet.

2.4.3 KATUMANI:

The station recorded rainfall amount of 0.0 mm during the dekad.

Temperatures slightly increased from 20.8 °C to 21.2 °C.

A Scattered clouds cover was reported throughout the dekad.

Planting is ongoing.

2.5.0 COASTAL REGION

The Coastal region reported decreased rains compared to the previous dekad. The mean air temperature ranged between 27.2°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 4.6 mm which was below its long-term dekadal mean of 47.4 mm. Mean air temperature slightly increased from 27.3°C to 27.7°C. Broken cloud cover was reported in the morning hours and scattered cloud cover in the afternoon hours during the dekad.

Land preparations are ongoing for the next growing season.

2.5.2 MSABAHA:

The station reported a rainfall amount of 37.3 mm during the dekad. The mean air temperature increased from at 27.2°C to 27.8°C. Broken cloud cover was reported in the morning hours and

scattered cloud cover in the afternoon hours during the dekad.

Farm preparations are complete.

2.6.0 NORTH EASTERN REGION:

The region reported increased rains compared to the previous dekad with Mandera leading with 11.7 mm. Mean air temperature ranged between 24.8°C to 31.9°C.

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

DEKAD 30 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

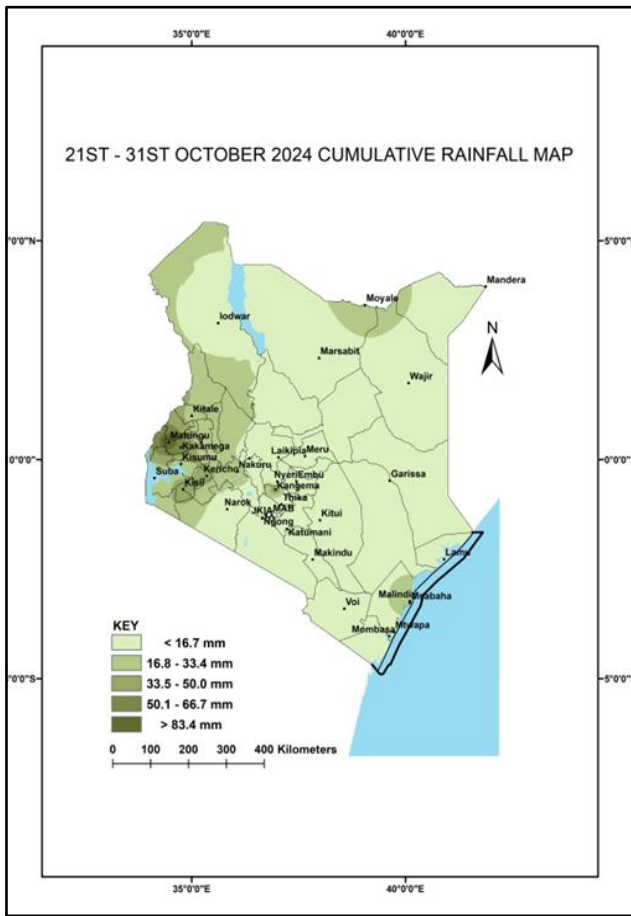


Fig: 3.1

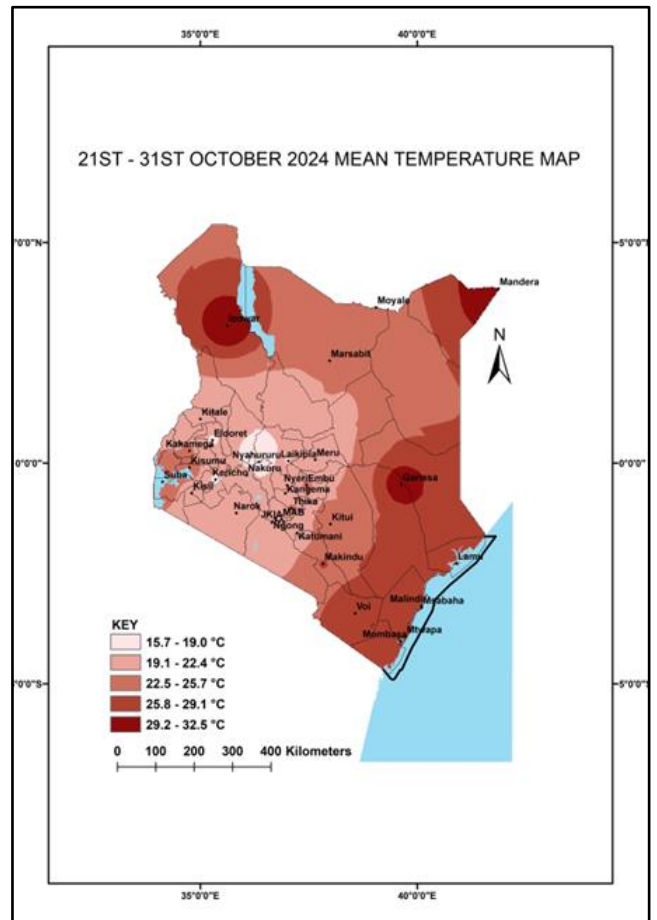


Fig: 3.2

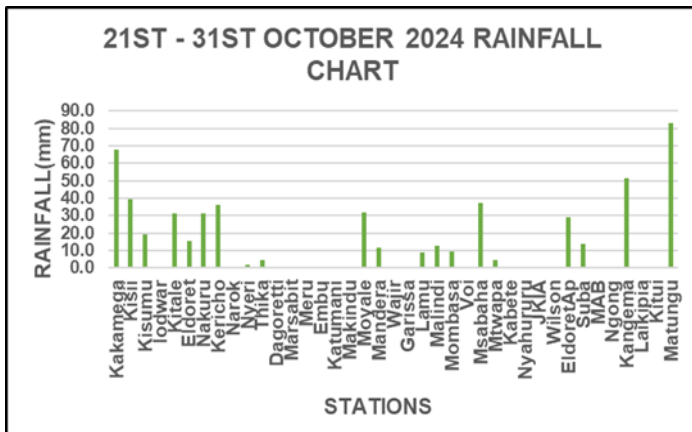


Fig: 3.3

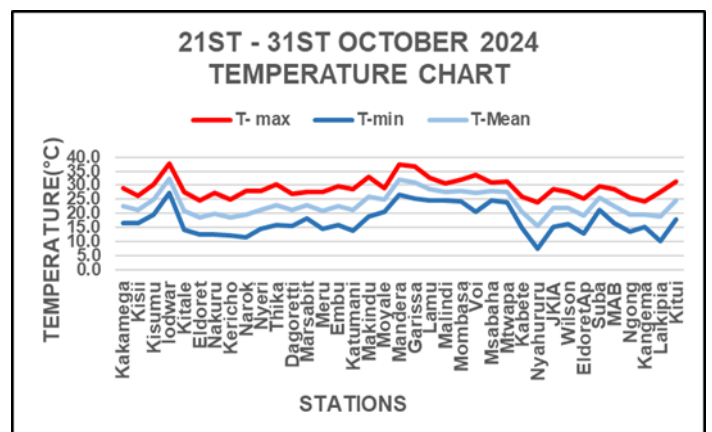


Fig: 3.4

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	1	2	3	176.71
Kisii	3	2	1	217.62
Kitale	1	3	4	144.85
Kericho	2	1	3	186.96
Nyeri	1	6	0	11.6
Thika	1	10	0	36.82
Dagoretti	0	11	0	9.12
Meru	0	11	0	4.5
Embu	0	11	0	14.92
Katumani	0	11	0	27.72
Msabaha	2	5	1	66
Mtwapa	1	4	0	69.03
Kabete	0	11	0	39.51
Nyahururu	0	11	0	89.31

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 1ST – 10TH NOVEMBER 2024.

In the **Highlands West of Rift valley, Lake Victoria Basin and the Rift valley and Nyanza regions**, Sunny intervals are expected in the morning. 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 and afternoon rains, and night showers are expected over few places during the forecast period.

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

In **North Western**, Sunny intervals are expected during the day while nights are likely to be partly cloudy. However, morning rains and afternoon and night showers may occur over few places during the period under forecast

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

Pastures and forage conditions are expected to start improving due to the expected weather conditions in the region.

In **south-eastern lowlands**, Morning rains and afternoon showers are expected over few places.

Crops and pasture condition is expected to rejuvenate owing to the expected rain

In the **Coastal region**, Morning rains and afternoon showers are expected over a few places.

Crops and pasture conditions in the region are expected to improve due to the expected rains over the region.

4.1 AGRO-ADVISORY:

Farmers are advised to make early land preparations and early planting in order to enhance crop yields and ensure 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 the 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 a conservative stocking rate during the OND.

Offtake before the droughts start 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 County Governments should 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



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