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AGROMETEOROLOGICAL BULLETIN

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DEKAD 31 PERIOD: 1ST – 10TH NOVEMBER 2024.

South-eastern lowlands, the Coast and the North-eastern Kenya. Isolated heavy rainfall events may occur over some parts of these regions.

1.0 HIGHLIGHTS

- The country recorded enhanced rainfall during the dekad. Most stations recorded rainfall amounts ranging between 4.6 mm in Wajir in North Eastern region to 152.4 mm in Meru station in Eastern region.
- Meru and Kitui stations in the Eastern region reported the highest amounts of rainfall of 152.4 mm and 126.9 mm respectively. **(Figures 3.1 and 3.3).**
- Temperatures decreased over most parts of the country possibly due to increased cloud cover and humid environment. **(Figures 3.2 and 3.4).**
- Total pan evaporation decreased over several stations 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

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

2.1 WESTERN AND NYANZA REGION

Several stations in the region reported decreased rainfall compared to the previous dekad. Matungu station recorded the highest amount of 100.4 mm followed by Kakamega station with 58.8 mm. Mean air temperature in the region ranged between 21.0°C to 25.7 °C. Broken cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 58.8 mm which was more than its long-term mean of 53.5 mm.

The average mean air temperature at the station slightly decreased from 22.7°C to 22.0°C, the station reported broken cloud cover throughout during the dekad.

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

2.3.0 CENTRAL AND NAIROBI REGION.

2.12 KISII:

The station recorded 27.1 mm of rainfall, which was below its long-term mean. Mean air temperature slightly increased from 21.4°C to 21.0°C during the same period.

The station reported broken cloud cover throughout the dekad.

Both maize and bean crops are in good state owing to the enhanced precipitation in the region.

2.2.0 RIFT VALLEY REGION

Most stations within the region reported increased rainfall during dekad. Kericho and Laikipia stations recorded 68.5 mm and 43.0 mm respectively.

Mean air temperature in the region ranged between 18.5 °C to 21.8 °C.

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

2.2.1 KITALE:

The station recorded 26.1 mm of rainfall during the dekad. The mean air temperature decreased from 21.0°C to 20.1°C.

The station reported broken clouds cover throughout the dekad.

Land preparations are ongoing.

2.2.2 KERICHO:

The station reported rainfall amount of 68.5 mm which is above its long-term mean of 62.5 mm. Mean air temperature increased from 18.6 °C to 21.8 °C

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

Both maize and beans crops are at emergence and in good state.

All stations in the region reported enhanced rainfall compared to the previous dekad (Fig 3.3). Mean air temperature decreased in the region and ranged between 15.1°C and 22.1°C. Most stations from the region reported broken cloud cover during the dekad.

2.3.1 NYERI:

The station reported rainfall amount of 52.2 mm which was below the long term dekadal mean of 71.3 mm. Mean air temperature slightly decreased from 21.2°C to 20.8°C during the dekad.

Cloud cover was broken throughout the dekad.

Planting is ongoing across the region

2.3.2 THIKA:

The station received a rainfall amount of 98.6 mm which is above its long-term dekadal mean of 68.9 mm. Mean air temperature decreased from 22.9°C to 22.1°C during the dekad.

The station reported broken cloud cover during the dekad.

Planting has been completed.

2.3.3 DAGORETTI

The station reported cumulative rainfall amount of 34.4 mm which is above its long-term dekadal mean of 53.9 mm. The mean air temperature decreased from 21.3°C to 20.5°C. The station reported broken cloud cover throughout the dekad.

Farmers have planted their crops.

2.3.4 KABETE:

The station reported cumulative rainfall amount of 42.0 mm during the dekad. The mean air temperature at the station decreased from 20.4°C to 19.8°C. The station reported broken cloud cover throughout dekad.

Planting is ongoing.

2.3.5 NYAHURURU:

The station received rainfall amount of 14.6 mm which was below its long-term mean of 29.2 mm. The mean air temperature at the station slightly decreased from 15.7°C to 15.1°C. The station reported scattered clouds cover in the morning and broken cloud cover in the afternoon. Maize has reached full ripeness.

2.4.0 EASTERN REGION:

All the stations in the region reported increased rainfall during the dekad from 23.7 mm in Katumani to 152.4 mm in Meru station. (Fig 3.3). Mean air temperature ranged between 20.6°C to 25.9°C. Broken cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded cumulative rainfall amount of 152.4 mm which was above the long-term dekad mean of 143.5 mm. Mean air temperature decreased from 21.0°C to 20.6°C.

Broken cloud cover was recorded through the dekad.

Planting has been completed.

2.4.2 EMBU:

The station received cumulative rainfall amount of 109.4 mm. The mean air temperature observed under the same period slightly decreased from 22.7 °C to 21.8°C.

The station reported broken cloud cover throughout the dekad.

Planting is complete the crops are yet to emerge.

2.4.3 KATUMANI:

The station recorded rainfall amount of 23.7 mm during the dekad.

Temperatures slightly decreased from 21.2 °C to 21.1 °C.

Broken clouds cover was reported throughout the dekad.

Planting is ongoing.

2.5.0 COASTAL REGION

The Coastal region reported increased rains compared to the previous dekad. The mean air temperature ranged between 27.7°C and 29.3°C. Scattered cloudy conditions dominated the region during the dekad.

2.5.1 MTWAPA:

The station recorded a rainfall amount of 14.5 mm which was below its long term dekad mean of 63.4 mm. Mean air temperature slightly increased from 27.7°C to 28.2°C. Broken cloud cover was reported in the morning hours and scattered cloud cover in the afternoon hours during the dekad.

Planting is ongoing.

2.5.2 MSABAHA:

The station reported a rainfall amount of 13.5 mm during the dekad. The mean air temperature increased from at 27.8°C to 28.1°C. Broken cloud cover was reported in the morning hours and few cloud cover in the afternoon hours during the dekad.

Planting is ongoing.

2.6.0 NORTH EASTERN REGION:

The region reported increased rains compared to the previous dekad with Garissa leading with 58.1 mm. Mean air temperature ranged between 30.6°C to 31.4°C.

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

DEKAD 31 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

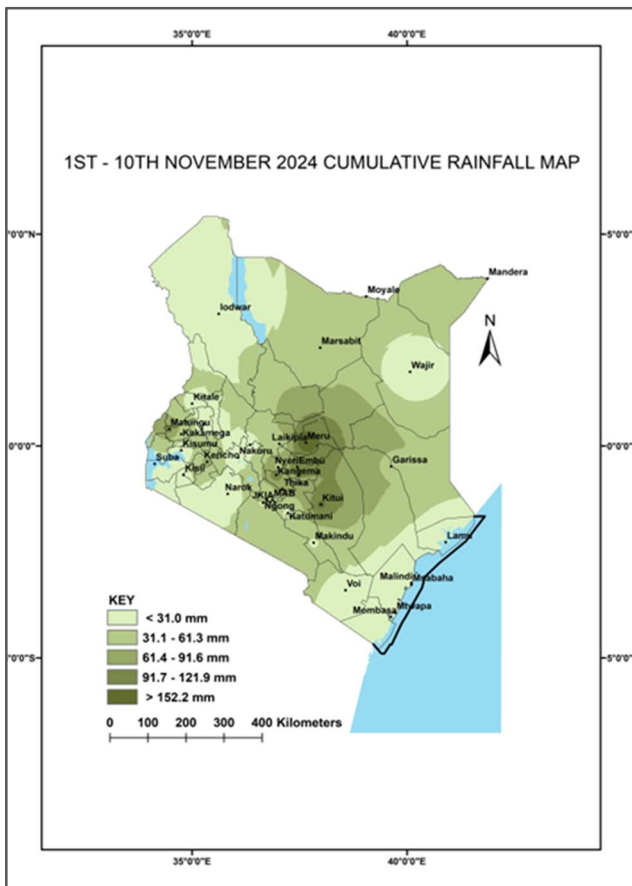


Fig: 3.1

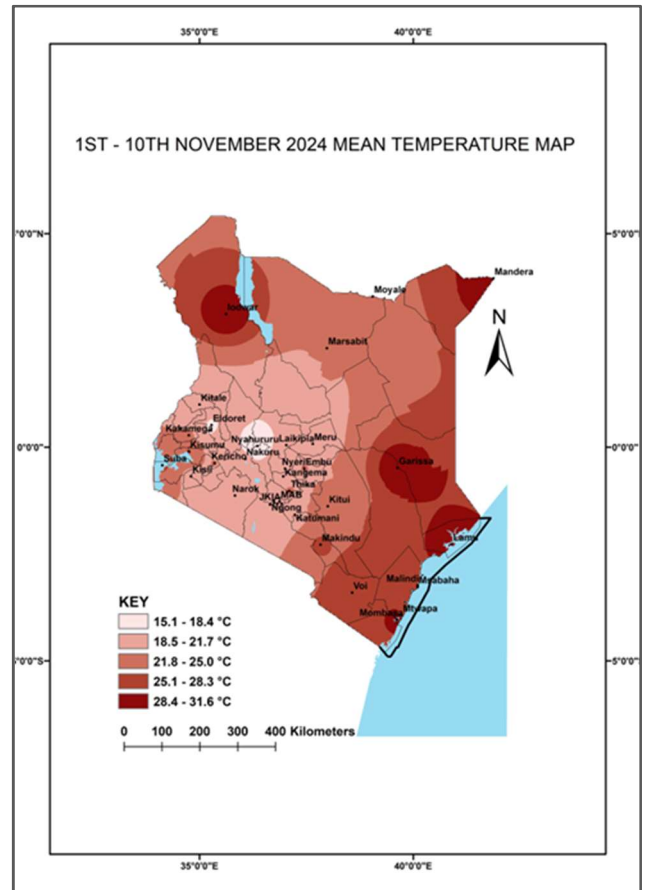


Fig 3.2

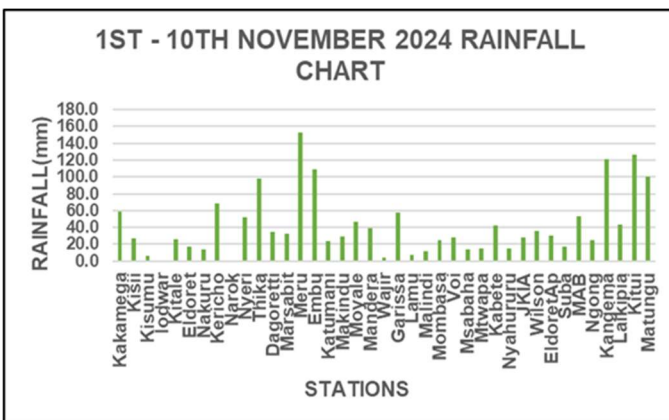


Fig: 3.3

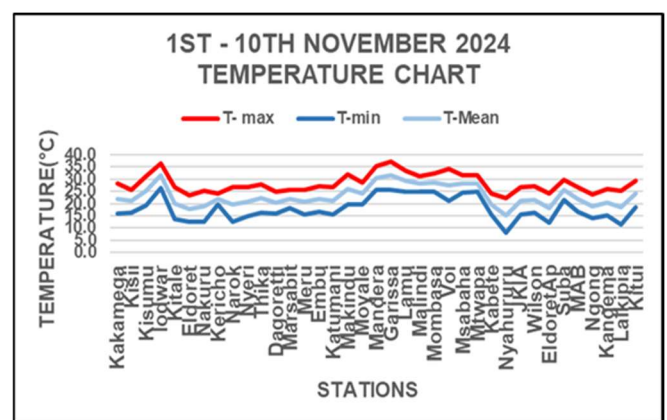


Fig: 3.4

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	3	3	235.5
Kisii	1	1	2	244.7
Kitale	2	3	2	171.0
Kericho	3	3	3	255.5
Nyeri	3	2	4	63.8
Thika	3	3	3	135.4
Dagoretti	2	4	3	43.5
Meru	7	1	6	156.9
Embu	7	1	6	124.3
Katumani	3	4	2	51.4
Msabaha	1	5	1	79.5
Mtwapa	3	4	1	83.5
Kabete	1	3	3	81.5
Nyahururu	1	3	2	103.9

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS

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

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 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 showers.

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

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

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

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

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

4.1 AGRO-ADVISORY:

Farmers are advised to make the best 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



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