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AGROMETEOROLOGICAL BULLETIN

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

DEKAD 29 PERIOD: 11TH – 20TH OCTOBER 2024.

1.0 HIGHLIGHTS

- Several parts of the Country recorded moderate to heavy rainfall during the dekad.
- Eldoret Kapsoya station in North Rift region reported the highest amount of rainfall of 105.3 mm, followed by Kitale in the same region with 95.8 mm. (**Figures 3.1 and 3.3**).
- Temperatures increased over most 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 11TH – 20TH OCTOBER 2024.

2.1 WESTERN AND NYANZA REGION

Most stations in the region reported decreased rainfall compared to the previous dekad. Kakamega station recorded the highest amount of 89.0 mm followed by Kisii station with 62.9 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 89 mm, more than its long-term mean of 69.1 mm.

The average mean air temperature at the station slightly increased from 22.1°C to 22.6°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 and in the normal state while beans are in the flowering stage and in the normal state.

2.12 KISII:

The station recorded 62.9 mm of rainfall, which was slightly below its long-term mean. Mean air temperature decreased from 21.4°C to 21.2°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 in a good state.

2.2.0 RIFT VALLEY REGION

All the stations within the region reported above normal rainfall during dekad. Eldoret Kapsoya and Kitale stations recorded 105.3 and 95.8 respectively.

Mean air temperature in the region ranged between 17.9 °C to 20.4 °C.

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

2.2.1 KITALE:

The station recorded 95.8 mm of rainfall during the dekad. The mean air temperature increased slightly from 20.0°C to 20.4°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 73.0mm which is above its long-term mean of 60.4 mm. Mean air temperature increased slightly from 18.0°C to 18.6°C.

The station reported broken cloud cover throughout the dekad.

Planting of seeds is over and awaiting germination.

2.3.0 CENTRAL AND NAIROBI REGION.

Most stations in the region reported above normal rainfall compared to the long-term mean (Fig 3.3). Mean air temperature decreased in the region and ranged between 15.4°C and 20.8°C. Most stations from the region reported broken cloud cover during the dekad.

2.3.1 NYERI:

The station reported rainfall amount of 7.2 mm which was below the long term dekad mean of 37.4 mm. Mean air temperature slightly increased from 20.4°C to 20.8°C during the dekad.

Cloud cover was scattered throughout the dekad.

Land preparations is over and awaiting the rain

2.3.2 THIKA:

The station received a rainfall amount of 30.1 mm which is almost as its long-term dekad mean of 30.9 mm. Mean air temperature increased from 20.4°C to 22.3°C during the dekad.

The station reported broken cloud cover during the dekad.

Land preparations are ongoing for next cropping season.

2.3.3 DAGORETTI

The station reported cumulative rainfall amount of 9.0 mm which is below its long-term dekad mean of 30.1 mm. The mean air temperature increased from 19.6°C to 20.5°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

27.9 mm during the dekad. The mean air temperature at the station decreased from 19.1°C to 19.7°C. The station reported scattered cloud cover during the dekad.

Land preparations are ongoing for the next growing season.

2.3.5 NYAHURURU:

The station received rainfall amount of 84.2 mm which was above its long-term mean of 32.8 mm. The mean air temperature at the station slightly increased from 15.2°C to 15.4°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:

The Eastern region reported enhanced rainfall compared to the previous dekad with Katumani Embu and Meru reporting 27.7 mm, 14.7 mm and 1.9 mm respectively. (Fig 3.3). Mean air temperature ranged between 20.8°C to 25.1°C. Scattered cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded cumulative rainfall amount of 1.9 mm which was below the long-term decadal mean of 69.7 mm. Mean air temperature increased from 20.4°C to 20.9 °C.

Scattered 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 14.7 mm. The mean air temperature observed under the same period slightly increased from 21.8 °C to 22.0°C.

The station reported broken cloud cover throughout the dekad.

Land preparations is ongoing.

2.4.3 KATUMANI:

The station recorded rainfall amount of 27.7 mm during the dekad.

Temperatures slightly increased from 20.5 °C to 20.8 °C.

A Scattered clouds cover was reported 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 27.3°C and 28.6°C. Scattered cloudy conditions dominated the region during the dekad.

2.5.1 MTWAPA:

The station recorded a rainfall amount of 38.5 mm which was below its long term dekadal mean of 54.6 mm. Mean air temperature slightly increased from 26.9°C to 27.3°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 28.0 mm during the dekad. The mean air temperature increased from at 27.0°C to 27.2°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 Moyale recording 16.0 mm. Mean air temperature ranged between 24.3°C to 32.5°C.

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

DEKAD 29 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

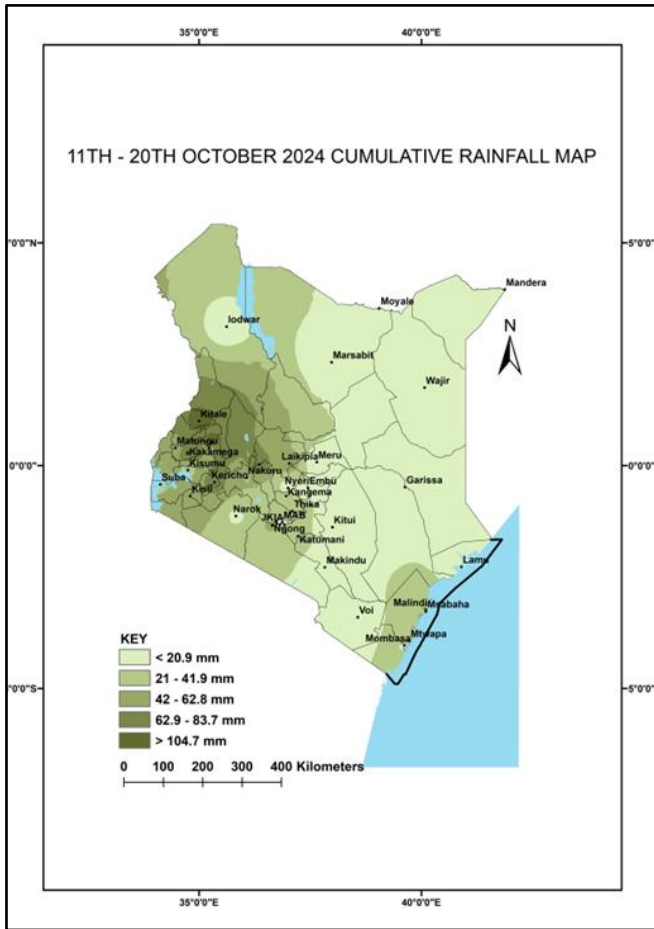


Fig: 3.1

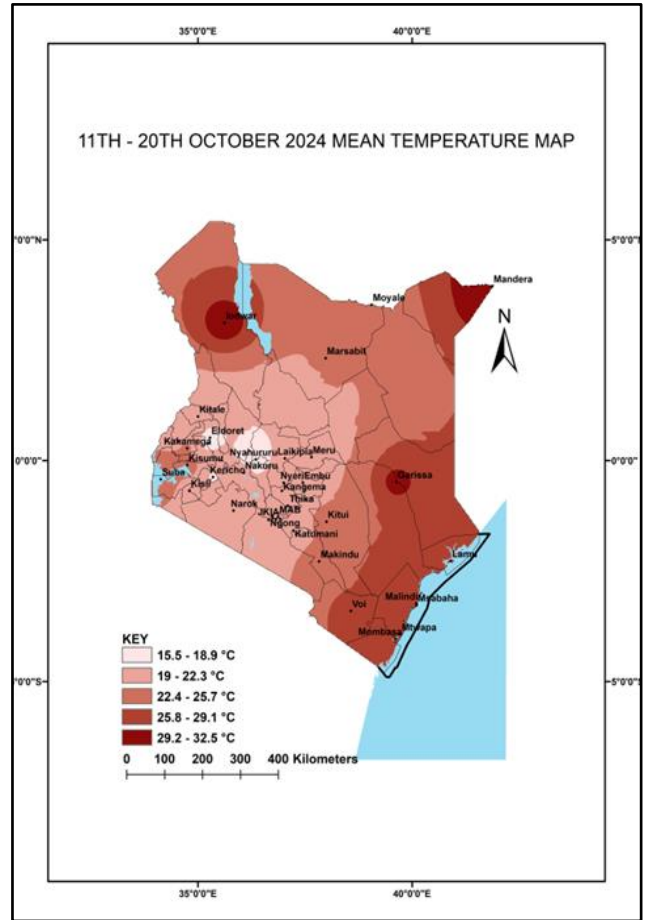


Fig 3.2

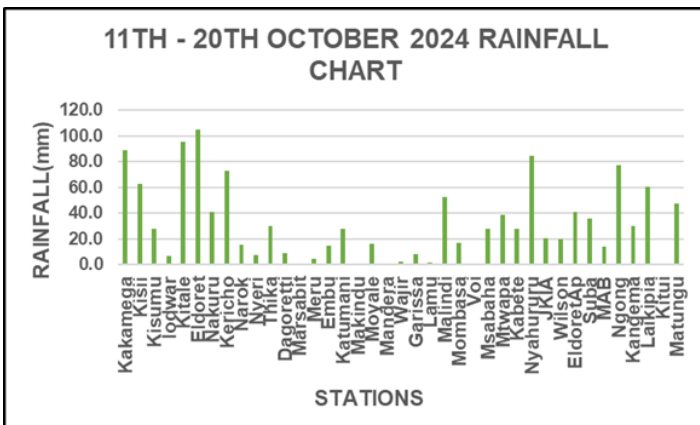


Fig: 3.3

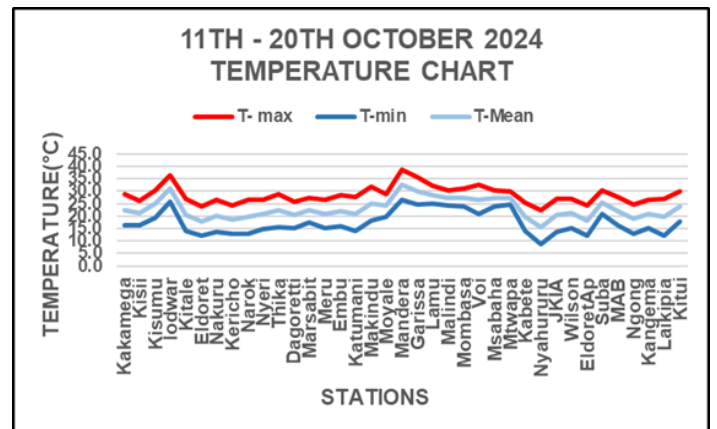


Fig: 3.4

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	2	2	5	108.91
Kisii	2	3	2	178.41
Kitale	3	2	4	113.84
Kericho	2	1	5	150.63
Nyeri	1	5	0	10.1
Thika	2	4	2	32.62
Dagoretti	3	2	0	9.12
Meru	1	5	0	4.5
Embu	3	5	1	14.92
Katumani	2	4	2	27.72
Msabaha	2	3	2	28.7
Mtwapa	3	4	3	64.42
Kabete	2	4	1	39.51
Nyahururu	5	2	6	89.31

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS

DURING THE NEXT TEN (10) DAYS; 21ST – 31ST

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 few places. Night showers are likely to occur over few places.

In the **Central region and Nairobi County**, Intermittent cloudiness is expected over few places in the mornings giving way to sunny intervals. Afternoon showers are likely to occur over few 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**, Sunny interval is likely to occur during the morning and afternoon session. Over the night mostly partly cloudy.

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 continuity of 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.

Crops and pasture condition is expected to keep on deteriorating due to prolonged dry spell being experienced in region.

In the **Coastal region**, Sunny intervals are expected during the initial days of the forecast with a chance of showers in rest of the forecasted period. Nights are likely to be partly cloudy.

Crops and pastures conditions in the region is expected to be sustained by the previous soil moisture gained from received rain.

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



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