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MINISTRY OF ENVIRONMENT, CLIMATE CHANGE & FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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AGROMETEOROLOGICAL BULLETIN

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DEKAD 24 PERIOD: 21ST – 31ST AUGUST 2024.

1.0 HIGHLIGHTS

- Several parts of the Country recorded moderate to heavy rainfall during the dekad. There was negative deviation in most parts of the country.
- Kericho station reported the highest amount of rainfall of 103.1 mm, followed by Matungu in the western region with 103.0 mm. (Figures 3.1 and 3.3).
- Mean air temperature increased over most parts of the country by more than 0.1 °c (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 to continue over some parts of the Highlands East and West of the Rift Valley, the Lake Victoria Basin, the Rift Valley and the Coast.

- Intermittent cold and cloudy conditions are likely to occur over parts of the Highlands East and West of the Rift Valley, the Rift Valley and the South-eastern lowlands.

2.0 WEATHER AND CROP REVIEW FOR THE 21ST – 31ST AUGUST 2024.

2.1 WESTERN AND NYANZA REGION

Most stations in the region reported decreased rainfall compared to the previous dekad. Mean air temperature in the region ranged between 20.9 °C to 24.1 °C. Broken cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 45.5 mm which was below its long-term mean.

The average mean air temperature at the station increased from 21.7 °C in the previous dekad to 22.2 °C, the station reported scattered cloud cover in the morning and broken cloud cover in the afternoon.

Land preparations are ongoing for the next crop season.

2.12 KISII:

The station recorded 5.9 mm of rainfall, which was below its long-term mean. Mean air temperature increased from 20.6°C to 20.9°C during the same period.

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

Land preparations is ongoing for the next crop season.

2.2.0 RIFT VALLEY REGION

Several parts within the region reported lower rainfall compared to the previous dekad.

Mean air temperature in the region ranged between 17.3 °C to 19.3 °C. Broken cloud cover was observed over most parts of the region during the dekad.

2.2.1 KITALE:

The station recorded 41.7 mm of rainfall during the dekad. The mean air temperature decreased slightly from 19.4°C to 19.3°C.

The station reported broken cloud cover throughout the dekad

Maize harvesting is ongoing.

2.2.2 KERICHO:

The station reported a rainfall amount of 103.1mm which is above its long-term mean of 66.5 mm. Mean air temperature increased from 17.9 °C to 18.0°C.

The station reported scattered cloud cover in the morning and broken cloud cover in the afternoon.

Maize has reached full maturity and ready for harvest.

2.3.0 CENTRAL AND NAIROBI REGION.

Most stations reported increased rainfall compared to the previous dekad (Fig 3.3). Mean air temperature increased in the region and ranged between 14.4°C and 19.9°C. Most stations from the region reported broken cloud cover throughout the dekad.

2.3.1 NYERI:

The station reported a cumulative rainfall amount of 7.8 mm which was below the long term dekadal mean of 15.9mm. Mean air temperature slightly increased from 17.2°C to 17.7°C during the dekad.

Cloud cover was broken throughout the dekad.

Maize is almost attaining full maturity. Beans is being harvested.

2.3.2 THIKA:

The station received a rainfall amount of 0.5 mm which is below its long-term dekadal mean. Mean air temperature slightly increased from to 19.3°C to 19.9°C during the dekad.

The station reported broken cloud cover and total pan evaporation of 30.0 mm during the dekad.

Maize harvesting is ongoing.

2.3.3 DAGORETTI

The station reported cumulative rainfall amount of 1.8 mm which is below its long-term dekadal mean of 9.5 mm. The mean air temperature remained unchanged at 18.0°C. The station reported broken cloud cover throughout the dekad.

Maize has attained full maturity and some farmers have started harvesting.

2.3.4 KABETE:

The station reported cumulative rainfall amount of 2.0 mm during the dekad. The mean air temperature at the station slightly decreased from 17.4°C to 17.3°C. The station reported broken cloud cover throughout the dekad.

Maize has attained full maturity.

2.3.5 NYAHURURU:

The station received rainfall amount of 37.2mm which was below its long-term mean of 50.6 mm. The mean air temperature at the station slightly increased from 14.1°C to 14.4°C. The station reported scattered cloud cover in the morning and broken cloud cover in the afternoon. Maize is at wax ripeness.

2.4.0 EASTERN REGION:

The Eastern region reported increased rainfall compared to the previous dekad with Meru, Embu and Kitui reporting 50.4 mm, 17.0 mm and 0.6 mm respectively. (Fig 3.2). Mean air temperature ranged between 18.3°C and 22.8°C. Broken cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded cumulative rainfall amount of 50.4 mm which was above the long-term decadal mean of 5.0 mm. Mean air temperature slightly increased from 17.8°C to 18.3 °C.

Broken cloud cover was observed throughout the dekad.

Land preparations are ongoing for the next crop season.

2.4.2 EMBU:

The station reported a cumulative rainfall amount of 17.0 mm during the dekad. The mean air temperature observed under the same period increased from 18.2 °C to 18.9°C.

The station reported broken cloud cover during the morning and in the afternoon throughout the dekad.

Maize harvesting is ongoing.

2.4.3 KATUMANI:

The station reported 0.4 mm of rainfall which was below the long-term mean rainfall of 2.6mm during the dekad.

The station reported increased temperatures from 17.8 °C to 18.4 °C.

A broken cloud state was reported during the dekad.

Maize crop is at full ripeness.

2.5.0 COASTAL REGION

The Coastal region reported enhanced rains compared to the previous dekad. The mean air temperature ranged between 24.2°C and 27.2°C. Broken cloudy conditions was observed in the region throughout the dekad.

2.5.1 MTWAPA:

The station recorded a rainfall amount of 40.9 mm which was above its long term dekad mean of 17.9mm. Mean air temperature increased from 26.3°C to 26.5°C. Broken cloud cover was observed in the morning and scattered in the afternoon.

Maize harvesting is still ongoing in some farms.

2.5.2 MSABAHA:

The station reported a rainfall amount of 18.1 mm during the dekad. The mean air temperature slightly decreased from 26.7°C to 26.6°C. Broken cloud cover was observed throughout the dekad.

Most farmers have finished harvesting their crops.

2.6.0 NORTH EASTERN REGION:

Most stations in the region reported increased rainfall amounts from the previous dekad. Mean air temperature ranged between 28.0°C to 30.1°C.

Broken cloud cover dominated the region all through the dekad.

DEKAD 24 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

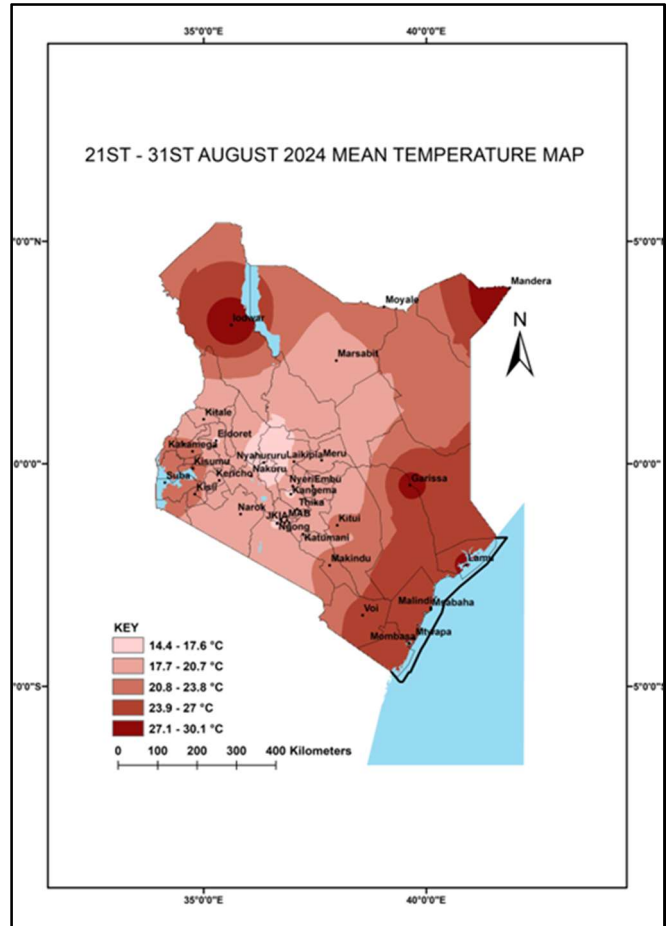
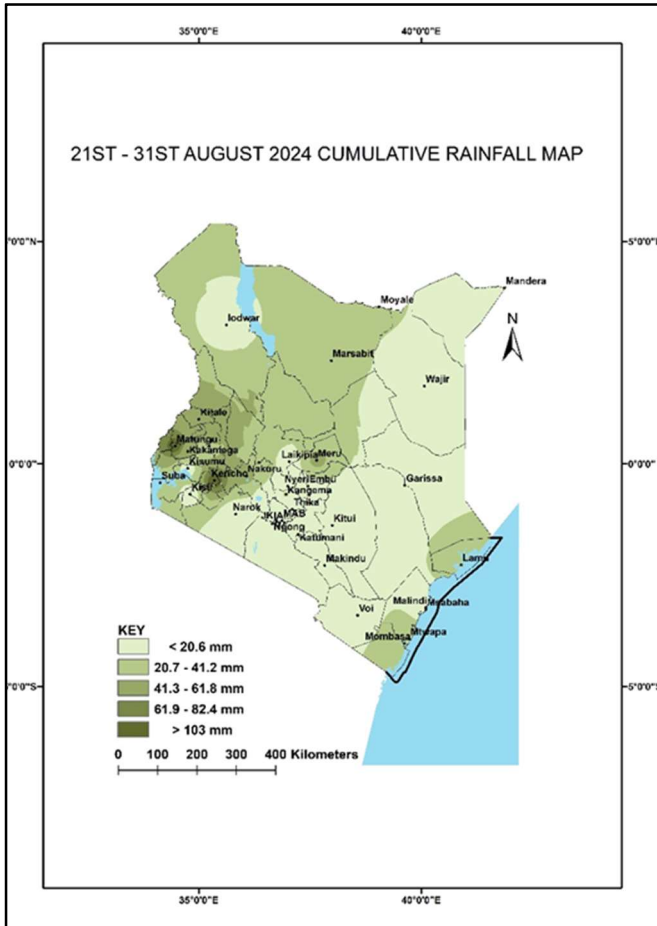


Fig: 3.1

Fig 3.2

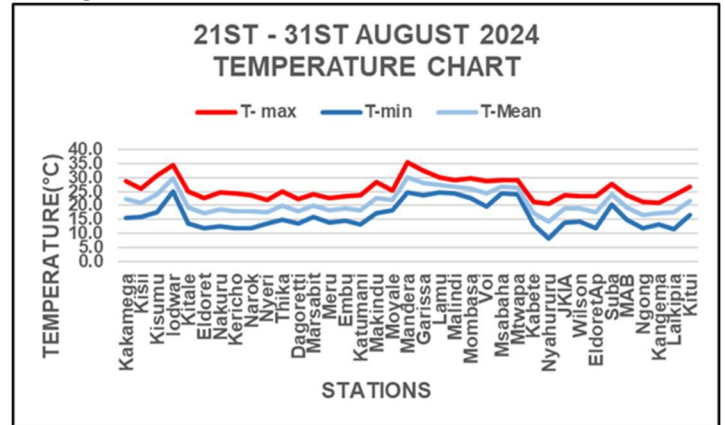
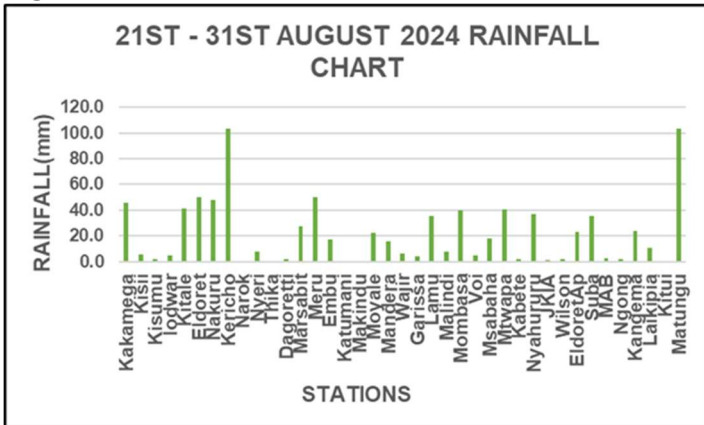


Fig: 3.3

Fig: 3.4

Station	Maximum consecutive wet days from the start of JJA Season	Maximum consecutive dry days from the start of the Season	Days with moderate or heavy RF from the start of the Season	Sum RF from the start of JJA Season
Kakamega	5	4	24	555.1
Kisii	4	12	18	311.9
Kitale	5	3	23	387.2
Kericho	8	3	32	587.4
Nyeri	3	12	6	85.0
Thika	2	17	3	62.3
Dagoretti	4	6	9	230.4
Meru	3	19	4	83.8
Embu	3	10	6	87.5
Katumani	2	19	1	13.8
Msabaha	4	13	9	250.1
Mtwapa	2	6	11	213.1
Kabete	4	10	8	176.9
Nyahuru	9	7	22	358.1
Kabarak	2	68	3	63.1

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP

CONDITIONS DURING THE NEXT TEN (10) DAYS;

1ST – 10TH SEPTEMBER 2024.

In the **Western and Nyanza regions**, Mornings are expected to be generally sunny though occasional rains may occur over few places. Afternoon showers and thunderstorms are likely to occur over few places, occasionally spreading to several places. Night showers are also expected over few places.

In the **Central region and Nairobi County**, Intermittent cloudiness, with light rains over few places is expected in the mornings giving way to sunny intervals. Afternoon and showers are expected over few high ground areas.

The crops and pastures in the region are expected to do well owing to the conducive rainfall expected in the region.

In **North Western**, sunny intervals are expected during the day while nights are likely to be partly cloudy.

In **North Eastern** sunny intervals are expected during the day while nights are likely to be partly cloudy. However, there's a possibility of morning rains and afternoon showers occurring over few places.

Pastures and forage regeneration are expected to continue recuperating owing to the soil moisture of the past rains.

In **south-eastern lowlands**, Occasional cloudiness is expected in the morning, giving way to sunny intervals. However, there is a possibility of morning rains and afternoon showers occurring over few places. Nights are likely to be partly cloudy.

Crops and pasture condition is expected to rejuvenate due to the expected rain in the region.

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

The expected precipitation will benefit the crops and pastures in the field.

4.1 AGRO-ADVISORY:

- ❖ Farmers are advised to make early farm preparations in readiness for the next growing season.
- ❖ Farmers should maximize profits by exploring market opportunities. They should consult with agricultural extension services for valuable market information.

- ❖ Pastoralists are advised to make proper use of preserved pasture & forage.
 - ❖ Farmers should ensure proper storage of cereals in dry and cool places to avoid food contamination.
 - ❖ Communities are advised to take advantage of the current rains to harvest water for use during dry periods.
 - ❖ 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.
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For inquiries or any clarification, please use the email below



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