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MINISTRY OF ENVIRONMENT, CLIMATE CHANGE & FORESTRY
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AGROMETEOROLOGICAL BULLETIN

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DEKAD 19 PERIOD: 1ST - 10TH JULY 2024.

1.0 HIGHLIGHTS

- Several parts of the Country received moderate to heavy rainfall during the dekad.
- Moi Air Base station in Nairobi County reported the highest amount of rainfall of 130.3 mm, followed by Kericho and Msabaha stations with 97.9 mm and 79.7 mm respectively. (**Figures 3.1 and 3.2**).
- Mean air temperature increased over most parts of the country with the highest increase of 2.2 °C being recorded at Narok station (**Figures 3.3 and 3.4**).
- Total pan evaporation decreased over most stations due to low temperatures and cloudy conditions during the dekad.
- During the next ten days, intermittent cool and cloudy conditions are expected over some parts of the Highlands East and West of the Rift valley, South Eastern Lowlands and the Rift valley.

- Rainfall is expected over some parts of Highland East and West of the Rift Valley, Lake Victoria basin, the Rift Valley, and North Western Kenya.

WEATHER AND CROP REVIEW FOR THE PERIOD 1ST – 10TH JULY 2024

2.0 WESTERN AND NYANZA REGION

Most stations in the region continued to report moderate to heavy rainfall just like in the previous dekad. Mean air temperature in the region increased and ranged between 21.1 °C to 24.9 °C. Broken clouds dominated the region throughout the dekad.

2.1.1 KAKAMEGA:

The station reported 27.2 mm of rainfall which was below the long-term dekadal mean.

The average mean air temperature at the station slightly increased from 21.8°C to 21.9°C. The station reported broken cloud cover throughout the dekad.

Maize is in the maturing stage and in good state. Beans harvesting is over.

2.1.2 KISHI:

The station recorded 32.9 mm of rainfall, which was below the long-term mean. Mean air temperature increased slightly from 20.2 °C to 21.1°C. The station reported broken cloud cover during both morning and afternoon hours during the dekad.

Maize crop is doing fairly good. Harvesting of beans is ongoing.

2.2 RIFT VALLEY REGION

Most parts of the region reported more rainfall compared to the previous dekad. Kericho Met. station reported the highest amount throughout the entire region.

Mean air temperature in the region increased and ranged between 17.3 °C to 20.0 °C. Broken cloud cover dominated throughout the dekad

2.2.1 KITALE:

The station recorded 73.7 mm of rainfall during the dekad. The mean air temperature remained the same at 20.0°C. The station reported broken cloud cover during the dekad.

Maize has attained flowering stage and in good state. Beans harvest is going on and normal yield is expected.

2.2.2 KERICHO:

The station reported a rainfall amount of 79.7 mm which was above its long-term mean of 52.8 mm. Mean air temperature decreased from 18.1 °C to 18.0 °C.

The station reported broken cloud cover over the dekad

Maize has attained wax ripeness stage and is in good state. Beans have also attained maturity stage and farmers are going on harvesting.

2.3 CENTRAL AND NAIROBI REGION.

2.3.4 KABETE:

The station reported a cumulative rainfall amount of 54.2 mm during the dekad. The mean air temperature

Most stations reported more rainfall amounts compared to the previous dekad (Fig 3.1). Mean air temperature increased in the region and ranged between 15.4 °C and 20.5 °C. Most stations from the region reported scattered cloud.

2.3.1 NYERI:

The station received 13.2 mm which was slightly above its long-term mean of 9.0 mm.

Mean air temperature increased from 17.8 °C to 18.8 °C during the dekad.

Cloud cover was broken during the morning session and scattered during the afternoon.

Maize was post- flowering stage and is being affected by maize stalk borer. Normal yield expected. Beans are impacted negatively by excessive rainfall and below normal yield is expected.

2.3.2 THIKA:

The station recorded rainfall amount of 22.6 mm during the dekad which is above its long term mean of 5.6 mm. Mean air temperature slightly decreased from 18.9°C to 20.5°C during the dekad

The station reported scattered cloud cover throughout the dekad.

Maize is in the post-flowering stage and beans at maturing in the harvesting stage. Both crops are in poor condition and below normal stage is expected.

2.3.3 DAGORETTI

The station recorded 60.1 mm of rainfall way above its long-term mean of 4.3 mm. The mean air temperature increased from 16.5 °C to 18.4 °C during the dekad. The station reported broken cloud cover during the dekad.

at the station increased from 16.1°C to 18.0°C. The station reported broken cloud cover throughout the dekad.

Maize is at the maturity stage and beans harvesting stage and both crops are in good state.

2.3.5 NYAHURURU:

The station received rainfall amount of 26.1 mm which was below its long-term mean of 45.1 mm. The mean air temperature at the station increased from 14.1 to 15.4 °C. The station reported scattered cloud cover in the morning and broken cloud cover during the afternoon.

Maize crop is doing well due to the sufficient rainfall.

2.4 EASTERN REGION:

The region recorded a substantial amount of rainfall ranging from 3.0 mm to 14.9 mm during the current dekad. Mean air temperature ranged between 18.2°C and 19.4 °C. Broken cloud cover kept on dominating the region throughout the dekad.

2.4.1 MERU:

The station reported 3.0 mm of rainfall during the dekad. Mean air temperature increased from 17.7°C to 18.4 °C.

Scattered cloud cover was observed during morning and afternoon hours.

Both maize and beans have already been harvested. Land preparation is going for the next growing season.

2.4.2 EMBU:

The station reported 14.9 mm. The mean air temperature increased from 18.5°C to 19.4°C during the dekad. The station reported broken cloud cover throughout the dekad. Maize is at maturity stage and in a fair state

2.4.3 KATUMANI:

The station reported 7.7 mm of rainfall during the period under review. The mean air temperature reported was 18.2 mm.

Broken cloud cover dominated the sky during the dekad.

Maize has attained maturity stage. Bean harvesting is ongoing in most farms.

2.5 COASTAL REGION:

The Coastal region reported rainfall amounts ranging from nil from Mtwapa to 79.7 mm in the neighbouring Msabaha. The mean air temperature ranged between 26.1°C and 27.4°C. Scattered to broken cloud cover dominated the region during the dekad.

2.5.1 MTWAPA:

The station recorded nil rainfall as compared to its long-term dekadal mean of 38.1 mm. Mean air temperature decreased slightly from 26.0 °C to 26.1 °C. Broken cloud cover was observed in the morning and in the afternoon.

Both maize and mangoes have attained the flowering stage and are in a good state. Maize is being affected by pests; birds and wild animals.

2.5.1 MSABAHA:

The station recorded 79.7 mm of rainfall which was above its long-term dekadal mean of 50.6 mm. Mean temperature decreased from 26.4°C to 26.3 °C.

Broken cloud cover was observed in the morning and in the afternoon.

Both maize and beans have attained the flowering stage and are in a good state. Maize is being affected by pest; insects, birds and wild animals.

DEKAD 19 2024 RAINFALL AND

TEMPERATURE CHARTS/ MAPS & TABLES

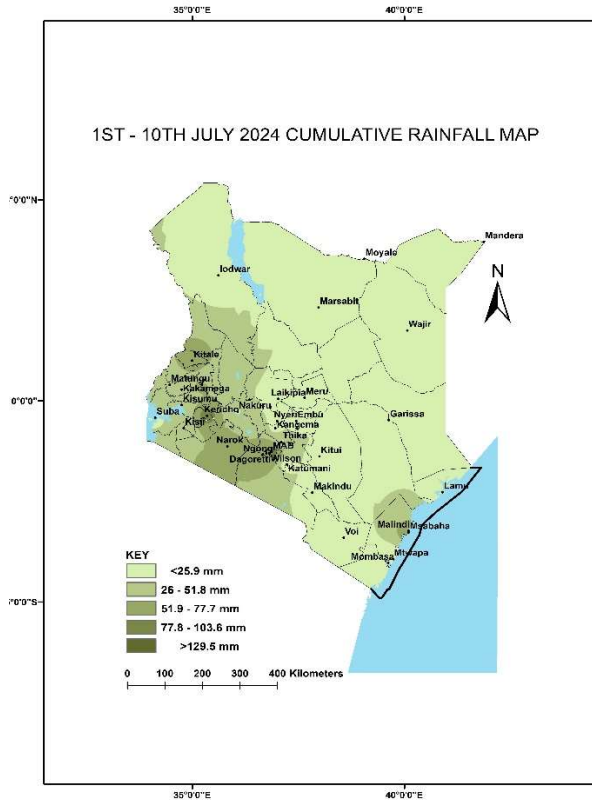


Fig 3.1

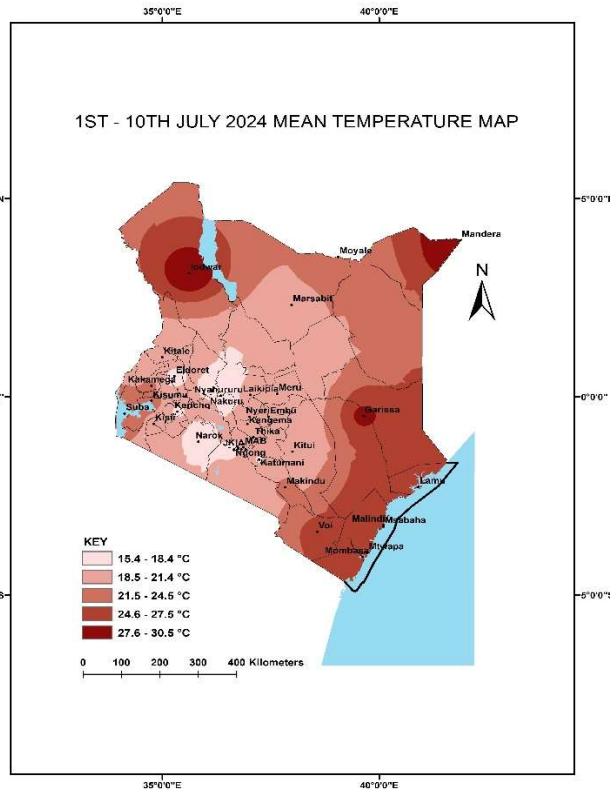


Fig: 3.3

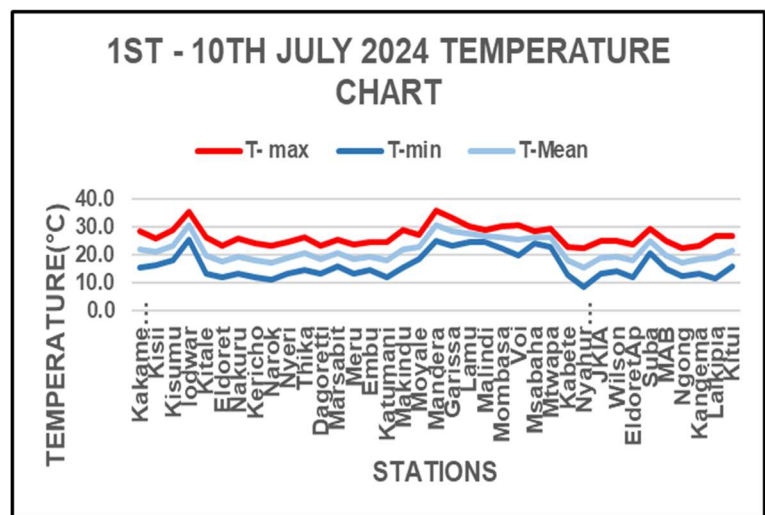
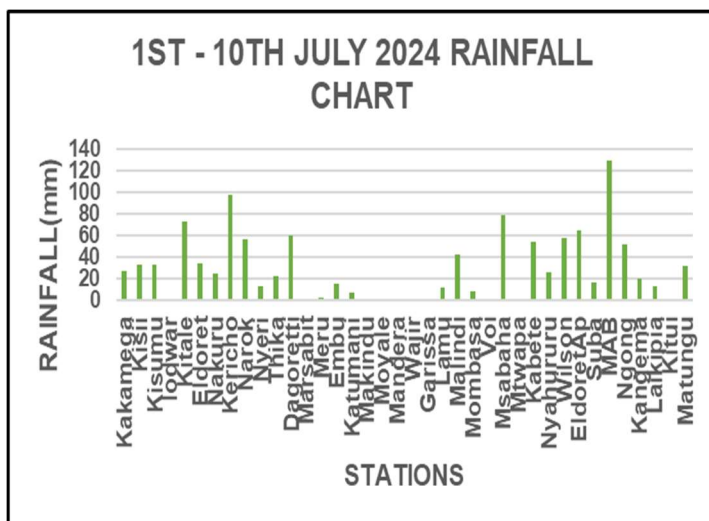


Fig: 3.2

Station	Maximum consecutive wet days from start of JJA Season	Maximum consecutive dry days from start of the Season	Days with moderate or heavy RF from start of the Season	Sum RF from start of JJA Season
Kakamega	5	4	14	237.3
Kisii	3	12	8	126.7
Kitale	5	3	9	149.0
Kericho	6	3	15	234.8
Nyeri	3	12	2	26.1
Thika	1	17	2	41.9
Dagoretti	4	6	8	211.4
Meru	1	19	0	3.6
Embu	2	10	2	24.3
Katumani	2	18	1	13.0
Msabaha	2	8	5	198.5
Mtwapa	2	6	3	115.8
Kabete	4	10	6	125.0
Nyahuru ru	2	7	3	56.2
Kabarak	2	6	3	63.1

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10)

DAYS; 11TH – 20TH JULY 2024.

In the Western and Nyanza regions, showers and thunderstorms are expected in the morning hours. Afternoons and Nights are also likely to receive showers

Fig: 3.3

accompanied by thunderstorms over few places during the forecasted period.

The crops are expected to continue doing well due to the expected favourable weather conditions.

In the Central region and Nairobi County, morning is likely to be cloudy, Afternoon is most likely reporting showers over a few places and night sessions would be partly cloudy. Crops and pastures are expected to keep on doing very well due to the wet weather and cloudy environment.

In North Western, North Eastern sunny intervals are expected during the day while nights are likely to be partly cloudy. Morning rains and afternoon/night showers are expected over few places during the forecast period.

Pastures and forage condition are expected to remain in good condition since soil moisture is still sufficient from the past rains.

In southeastern lowlands, occasional cloudiness expected in the morning giving way to sunny intervals. Nights are likely to be partly cloudy.

Crops and pasture condition is expected to start being stressed due to dry condition prevailing during the coming dekad.

In the Coastal region, morning and afternoon showers expected over few places with sunny intervals in some days. Nights are likely to be partly cloudy.

Crop and pastures condition are expected to deteriorate due to the dry weather expected over the dekad.

4.1 AGRO-ADVISORY:

- Farmers should focus on weed control measures to minimize competition for moisture and nutrients
- Farmers harvesting beans should ensure proper storage of cereals to avoid post harvest losses.

- Pastoralists in North Western Kenya, North Eastern regions, should make proper use of pasture & forage and employ right preservation and storage means.
- Communities should 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.

For inquiries, clarification, or feedback kindly use the contacts below.



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