



REPUBLIC OF KENYA
MINISTRY OF ENVIRONMENT, CLIMATE CHANGE & FORESTRY
KENYA METEOROLOGICAL DEPARTMENT
Dagoretti Corner, Ngong Road, P. O. Box 30259-00100, GPO, Nairobi, Kenya
Telephone: +254 (0) 20 38567880-7, +254 724 255 153-4
E-mail: director@meteo.go.ke, info@meteo.go.ke Website: <http://www.meteo.go.ke>

AGROMETEOROLOGICAL BULLETIN

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DEKAD 21 PERIOD: 21ST – 31ST JULY 2024.

1.0 HIGHLIGHTS

- Several parts of the Country received moderate to heavy rainfall during the dekad.
- Eldoret Air Port station in Uasin Gishu County reported the highest amount of rainfall of 104.8 mm, followed by Kitale and Laikipia stations with 59.9 mm and 57.8 mm respectively. (**Figures 3.1 and 3.2**).
- Mean air temperature increased over most parts of the country with the highest increase of 1.3°C being recorded at Ngong station (**Figures 3.3 and 3.4**).
- Total pan evaporation increased over most stations due to increased temperatures.
- During the next ten days, the 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 to continue over some parts of Highlands East and West of the Rift Valley, the Lake

Victoria basin, the Rift Valley and North Western Kenya.

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD 21ST – 31ST JULY 2024

2.1 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 remained unchanged and ranged between 20.7°C to 24.6°C. Broken clouds cover dominated the region throughout the dekad.

2.1.1 KAKAMEGA:

The station reported 23.1 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 22.0°C. The station reported broken cloud cover throughout the dekad.

Maize has matured and ready for harvest.

2.1.2 KISII:

The station recorded 33.0 mm of rainfall, which was below the long-term mean. Mean air temperature remained unchanged at 20.7°C. The station reported broken cloud cover during the entire period of the dekad. Harvesting of the maize crop has started.

2.2 RIFT VALLEY REGION.

Several parts of the region reported less rainfall compared to the previous dekad. Eldoret Air Port Met. station reported the highest amount throughout the entire region.

Mean air temperature in the region increased and ranged between 17.5°C to 19.7°C. Broken cloud cover dominated the region throughout the dekad

2.2.1 KITALE:

The station recorded 59.9 mm of rainfall during the dekad. The mean air temperature increased slightly from 19.6°C to 19.7°C. The station reported broken cloud cover throughout the dekad.

Maize is at post flowering stage and in good state. Beans harvesting is still ongoing.

2.2.2 KERICHO:

The station reported rainfall amount of 19.3 mm which was below its long-term mean of 49.3 mm. Mean air temperature increased from 17.7°C to 18.2°C.

The station reported broken cloud cover throughout the dekad

Maize has attained wax ripeness stage and is in good state. Beans harvesting is over.

2.3 CENTRAL AND NAIROBI REGION.

Several stations reported more rainfall amounts compared to the previous dekad (Fig 3.1). Mean air temperature increased in the region and ranged between 15.6°C and 19.3°C. Most stations from the region reported broken cloud cover for the entire dekad.

2.3.1 NYERI:

The station received 29.8 mm which was above its long-term dekadal mean of 15.3 mm.

Mean air temperature increased from 17.0°C to 18.2°C during the dekad.

Cloud cover was broken throughout the entire period of the dekad.

Maize is at wax ripeness and affected by stalk borer. Normal yield expected. Beans has attained maturity.

2.3.2 THIKA:

The station recorded rainfall amount of 4.0 mm which was normal during the dekad. Mean air temperature increased from 18.3°C to 19.3°C during the dekad.

The station reported broken cloud cover throughout the dekad.

Maize has reached maturity stage and almost ripe for harvest.

2.3.3 DAGORETTI

The station recorded 11.9 mm of rainfall which is above its long term dekadal mean of 7.0 mm. The mean air temperature increased from 17.1°C to 18.0°C during the dekad. The station reported broken cloud cover during the entire period of the dekad.

Maize is at wax ripeness.

2.3.4 KABETE:

The station reported a cumulative rainfall amount of 38.4 mm during the dekad. The mean air temperature at the station increased from 16.6°C to 17.4°C. The station reported broken cloud cover throughout the dekad.

Maize is at the maturity stage. Beans harvesting has been completed.

2.3.5 NYAHURURU:

The station received rainfall amount of 42.0 mm which was above its long-term mean of 56.2 mm. The mean air temperature at the station increased from 14.9°C. to 15.6°C. The station reported broken clouds cover throughout the dekad.

Maize crop is in fair condition due to the sufficient rainfall.

2.4 EASTERN REGION.

Few stations in the region recorded substantial amount of rainfall ranging from 3.0 mm to 4.5 mm during the current dekad. Mean air temperature ranged between 17.6°C and 22.5°C. Broken cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station reported 4.5 mm of rainfall during the dekad. Mean air temperature increased from 17.4°C to 18.1°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 3.0 mm of rainfall. The mean air temperature increased from 17.5°C to 18.1°C during the dekad. The station reported broken cloud cover throughout the dekad. Maize is at maturity stage and in good state.

2.4.3 KATUMANI:

The station remained dry during the dekad under review

The mean air temperature reported was 17.6°C. Broken cloud cover dominated the sky during the dekad.

Maize has attained maturity. Beans harvesting has been completed.

2.5 COASTAL REGION.

The Coastal region reported rainfall amount ranging from nil in Voi to 11.6 mm in Lamu. The mean air temperature ranged between 25.0°C and 26.8°C. Scattered to broken cloud cover dominated the region during the dekad.

2.5.1 MTWAPA:

The station recorded 5.8 mm of rainfall as compared to its long term dekadal mean of 31.0 mm. Mean air temperature remained unchanged at 25.8°C. Broken cloud cover was observed in the morning and scattered in the afternoon during the dekad. Maize harvesting is still ongoing.

2.5.2 MSABAHA:

The station recorded 2.0 mm of rainfall which was below its long term dekadal mean of 28.5 mm. Mean temperature slightly increased from 25.7°C to 26.0°C.

Broken cloud cover was observed in the morning and scattered cloud cover in the afternoon during the entire dekad.

Maize harvesting is ongoing but below normal yield is expected.

2.6. NORTH EASTERN REGION.

The region remained dry during the period under review. The mean temperature ranged between 27.7°C to 30.2°C. Scattered cloud cover dominated the region throughout the dekad.

DEKAD 21 2024 RAINFALL AND TEMPERATURE CHARTS/ MAPS & TABLES

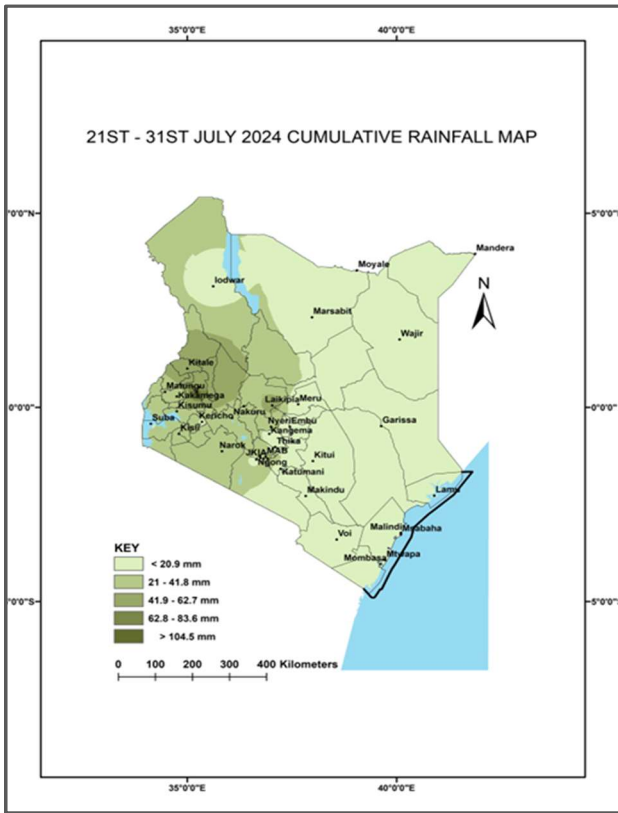


Fig 3.1

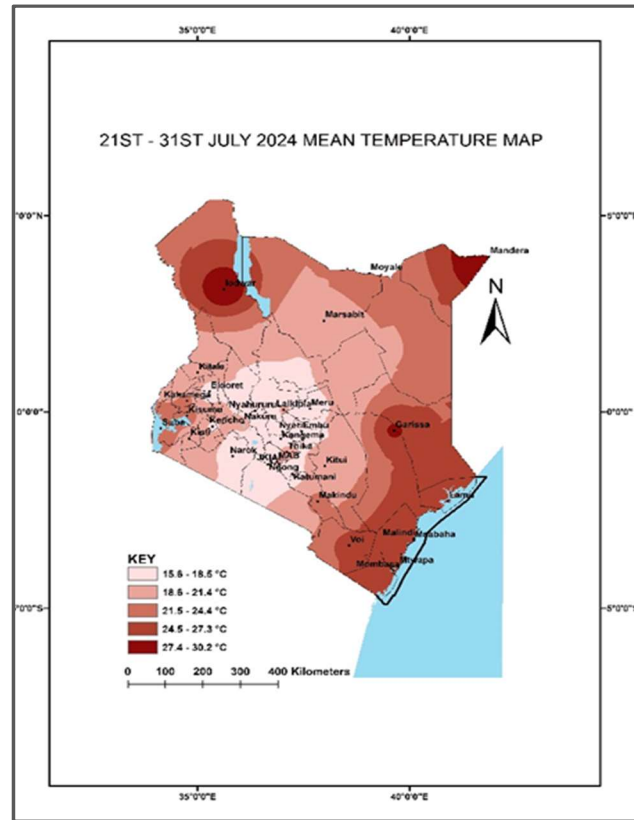


Fig 3.3

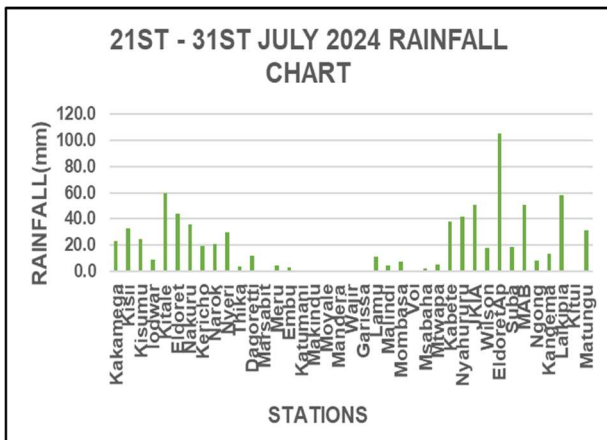


Fig 3.2

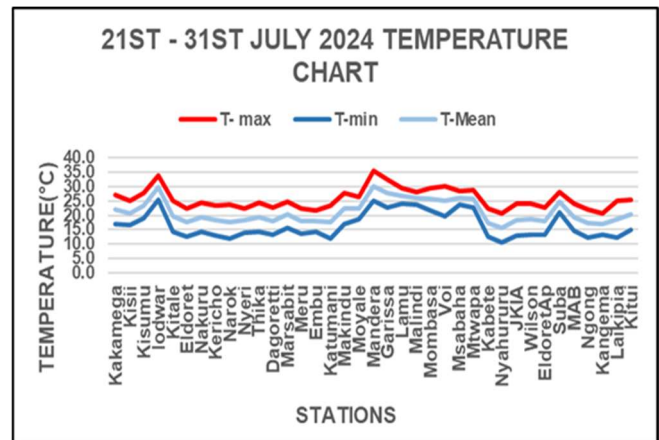


Fig 3.4

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	17	292.2
Kisii	4	12	10	186.3
Kitale	5	3	15	275.7
Kericho	8	3	21	340.5
Nyeri	3	12	5	66.6
Thika	2	17	2	52.6
Dagoretti	4	6	9	225.5
Meru	1	19	0	12.3
Embu	3	10	4	42.2
Katumani	2	18	1	13.4
Msabaha	4	8	7	222.4
Mtwapa	2	6	4	135.3
Kabete	4	10	8	168.8
Nyahuru	5	7	10	158.3
Kabarak	2	6	3	63.1

Fig: 3.5

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

DAYS; 1ST – 10TH AUGUST 2024.

In the Western and Nyanza regions, Morning rains are likely to occur over few places. Afternoon and night showers and thunderstorms are expected over few places occasionally spreading to several places.

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

In the Central region and Nairobi County, Intermittent cloudiness breaking into sunny intervals is expected in the mornings. Afternoon and night showers are expected over a few high ground areas. Crops and pastures are expected to keep on doing very well due to the wet weather and cloudy environment.

In North-Western, Morning rains and afternoon/night showers are expected over few places during the forecast period. In North-Eastern, sunny intervals are expected during the day while nights are likely to be partly cloudy. However, a few high-altitude areas in Marsabit county may experience cloudy and foggy conditions in the morning.

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

In south-eastern 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, Sunny intervals expected during the day while nights are likely to be partly cloudy. However, there is a possibility of light morning and afternoon showers occurring over few places during the second half of the forecast period.

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

4.1 AGRO-ADVISORY:

- Farmers are advised to use the unseasonal rainfall going on wisely to grow early maturing crops.
- Farmers should ensure proper storage of cereals void of humidity, in a dry and cool place.

▪ Farmers are advised to establish robust collaborations with Meteorological staff and other technical personnel at the grass roots to enhance their understanding of weather patterns and their implications on agricultural activities.



Mary Githinji

FOR:

DIRECTOR OF

METEOROLOGICAL

SERVICES

- 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.

The director,

Kenya Meteorological

Department,

P.O Box 30259 – 00100 Nairobi.

Email: director@meteo.go.ke

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