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

Ref: MET/8 /001 / 1 **Issue No: 02/2024** **Date: 24/01/2024**

DEKAD 2 PERIOD: 11TH – 20TH JANUARY 2024.

1.0 HIGHLIGHTS

- During the period under review, there was an increase in rainfall across several parts of the country compared to the previous dekad.
- Narok station reported the highest amount of rainfall of 175.8 mm, followed by the Wilson Airport recording 163 mm (refer to Figures 3.1 and 3.2).
- There was a general increase in mean air temperature across the country when compared to the preceding dekad (Figures 3.3 and 3.4).
- Total pan evaporation decreased slightly in most stations relative to the previous dekad.
- In the next ten days, most parts of the country are expected to be dry. However, a few areas in the South Rift Valley, the South-eastern lowlands, the Highlands East of the Rift Valley and the Coast are likely to receive light to moderate rainfall

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD: 11TH – 20TH JANUARY.

2.1 WESTERN AND NYANZA REGION

Several stations in the region reported increase in rainfall. Kakamega and Kisii stations observed a decrease in rainfall compared to the preceding dekad.

Mean air temperature in the region ranged between 21.2˚C to 27˚C. Broken cloud cover was observed over most stations throughout the region.

2.2.1 KAKAMEGA:

The station reported a cumulative rainfall amount of 58.71 mm which is above its long-term dekadal mean of 28.64 mm.

The average mean air temperature at the station slightly decreased from 22.0˚C to 21.2˚C. The station reported broken cloud cover throughout the dekad.

Maize has been harvested and a normal yield was obtained.

2.2.2 KISII:

The station recorded a cumulative rainfall of 35.4 mm. Mean air temperature recorded at the station was 21.0°C.

The station reported broken cloud cover throughout the dekad

RIFT VALLEY REGION

2.3.1 KITALE:

The station received a rainfall amount of 41.4 mm which is above its dekadal mean of 8.22 mm. The mean air temperature dropped slightly to 20.2˚C. Broken cloud cover was observed throughout the dekad.

2.3.2 KERICHO:

The station reported 97.3 mm of rainfall, which was a decrease from the previous 128.7 mm. The mean air temperature was 18.8˚C.

2.4 CENTRAL AND NAIROBI REGION.

Most stations from the region reported an increase in rainfall amounts compared to the previous dekad (Fig 3.2). Mean air temperatures varied in the region and ranged between 19.0˚C and 22.2˚C. Broken cloud cover was observed in the region throughout the dekad.

2.4.1 NYERI:

The station reported a cumulative rainfall amount of 69.91 mm which is above its long-term dekadal mean of 19.68 mm. Mean air temperature increased from 20.6˚C to 20.2 ˚C during the dekad. Broken cloud cover continued to be observed at the station throughout the dekad.

Maize was at post flowering stage while beans have attained the maturity stage. Both crops are in fair condition.

2.4.2 THIKA:

The station reported 37.9 mm rainfall which was above its normal dekadal mean of 21.4 mm. Total pan evaporation was 33.9 mm. The station reported broken cloud cover throughout the dekad.

Maize is at the flowering stage and in good condition corresponding to normal growth.

Beans are at the maturity stage with the crop condition being better than normal.

Normal yield is expected for both maize and beans.

2.4.3 DAGORETTI

The station received a cumulative rainfall amount of 116.0 mm, which was above its long-term dekadal mean of 21.7 mm. The mean air temperature increased from 20.5˚C to 23.4 ˚C during the dekad. The station reported broken cloud cover throughout the dekad.

Maize crop is at post flowering phase and in fair state corresponding to normal growth.

Beans are at harvesting stage. Normal yield is expected.

2.4.4 KABETE:

The station received a cumulative rainfall amount of 86.5 mm, which was slightly above its long-term dekadal mean. The mean air temperature at the station decreased from 20.1˚C to 19.8 ˚C. The station reported broken cloud cover throughout the dekad..

Maize is at post flowering stage and beans have attained maturity stage. Both crops are in a fair state, corresponding to normal growth.

Normal yield is expected.

2.4.5 NYAHURURU:

The station received a cumulative rainfall amount of 80.9 mm, which was above its long-term dekadal mean of 10.7 mm. The average mean air temperature at the station increased from 17.0˚C to 17.2 ˚C. The station reported scattered cloud cover throughout the dekad.. Harvesting of maize crop is complete.

2.5.0 EASTERN REGION:

Several stations in the region received decreased rainfall amounts. Kitui station recorded 37.2mm while Makindu recorded 24.8mm of rainfall. (figure 3.3). Mean air temperature slightly decreased ranging between 23.7˚C and 25.1˚C. Scattered cloud cover was observed in the region throughout the dekad.

2.5.1 MERU:

The station received a cumulative rainfall of 61.5 mm which was above its long-term dekadal mean of 37.0 mm. The mean air temperature was 20.4°C. Scattered cloud cover was observed at the station throughout the dekad.

2.5.2 EMBU:

The station remained dry during the dekad. The dekadal mean air temperature increased from 21.3˚C to 21.3˚C. The station reported scattered cloud cover throughout the dekad

Maize is at post flowering stage and in a fair state corresponding to normal growth.

Bean crop is at harvesting and a normal yield is expected.

2.5.3 KATUMANI:

The station reported 5.9 mm of rainfall during the dekad. Broken cloud cover was observed at the station throughout the dekad.

Maize has attained an early maturity stage and the state is fair corresponding to normal growth.

Beans are at the harvesting stage.

2.6 COASTAL REGION:

Most stations in the region reported light rainfall The mean air temperature generally decreased during the dekad and ranged between 24.4.0˚C and 29.3˚C.

2.6.1 MTWAPA:

The station received 1.4 mm of rainfall which was below its long-term dekadal mean of 6.1 mm. Mean air temperature increased to 24.4˚C. Scattered cloud cover was observed at the station throughout the dekad.

Maize crop at maturity stage in fair state corresponding to normal growth. However, the crop is being affected by insufficient rain, army worms, other animals and diseases.

2.6.2 MSABAHA:

The station remained dry during the dekad. The mean air temperature increased from 29.4˚C to 29.6˚C. Scattered cloud cover was observed throughout the dekad.

The maize crop is at the maturity stage and corresponds to normal crop growth. However, there has been insufficient rain during the period leading to wilting of some crops.

2.7 **NORTH EASTERN REGION:**

The region did not receive rainfall during the dekadal period. Mean air temperature ranged between 27.3˚C and 30.4˚C.

Few cloud cover was observed in the region throughout the dekad.

Pasture and forage conditions is good and sufficient water is available for livestock in the region.

DEKAD 2 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS

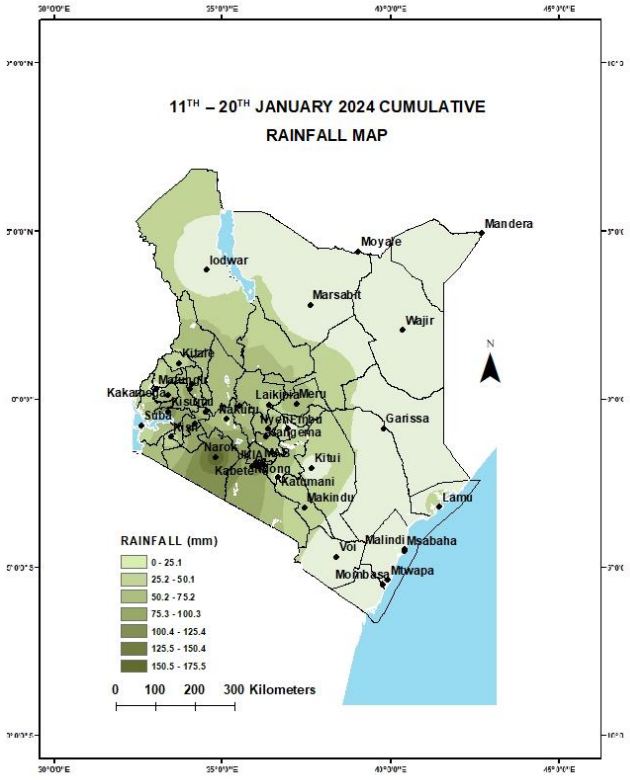

Fig 3.1

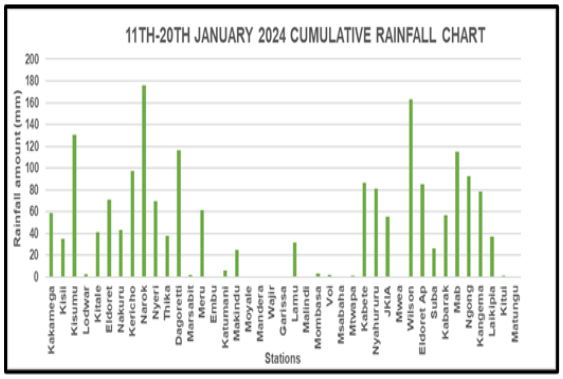

Fig 3.3

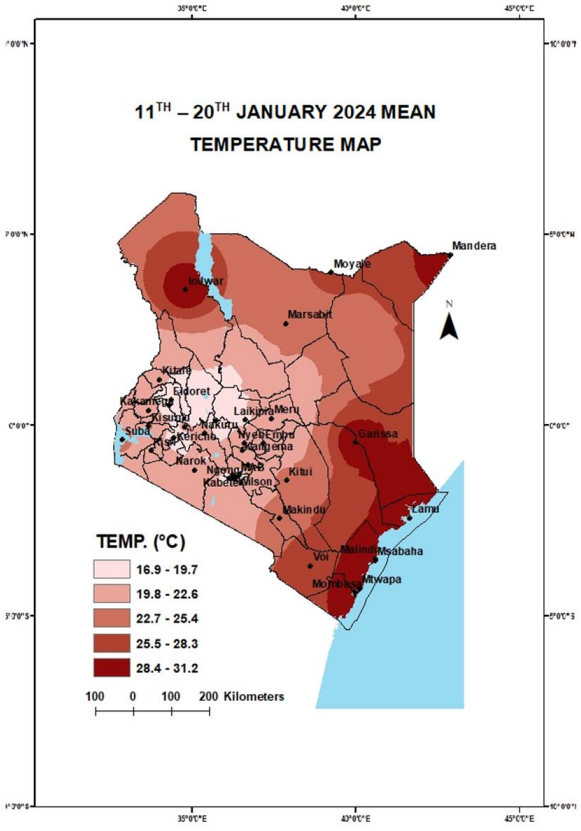

Fig 3.2

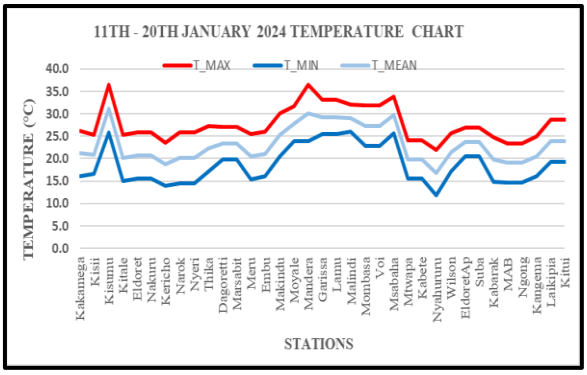

Fig 3.4

STATION	Cumulative rainfall from 1st Jan 2024	Maximum consecutive wet days	Maximum consecutive dry days	Number of rainy days
Kakamega	196.61	2	4	2
Kisii	81.33	3	2	1
Kitale	70.11	2	1	3
Kericho	226.02	2	1	6
Nyeri	85.61	4	1	3
Thika	60.4	2	6	1
Dagoretti	193.97	4	2	6
Meru	89.8	3	4	2
Embu	0	0	10	0
Katumani	60.4	1	7	0
Msabaha	0	0	10	0
Mtwapa	1.7	1	8	0
Kabete	144.5	4	2	5
Nyahururu	97.4	3	4	3
Kabarak	71.5	3	1	3

Fig 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 21ST - 31ST JANUARY, 2024.

In the next ten-day period, most parts of the country are expected to be generally dry. However, a

few areas in the Highland West of Rift Valley, Lake Victoria basin and Rift valley are expected to receive rain in few places.

In the **Western and Nyanza regions**, moderateto heavy rain expected over few places

In the **Central region, Nairobi, and Eastern parts of the country**, Occasional cloudiness is expected in the morning giving way to sunny intervals. Afternoon

and night showers are likely to occur over few places during the forecast period.

The **North Western Region,** Days are likely to be sunny and nights partly cloudy. However, occasional morning rains as well as afternoon and night showers are expected over few places during the second half of the forecast periods.

In the **South Eastern lowlands and Coastal regions**, Occasional cloudiness is expected in the morning giving way to sunny intervals. Afternoon and night showers are likely to occur over few places during the second half of the forecast period.

4.1 AGRO – ADVISORY:

- Farmers across the nation are encouraged to promptly harvest mature crops like beans to mitigate potential damage caused by expected rainfall.
- Famers should use proper and post-harvest management techniques to reduce losses and preserve crop quality.
- Pastoralists residing in North Western Kenya, North Eastern region, South Rift Valley, and certain areas of the South Eastern Lowland should ensure sustainable use of pasture and forage and water resources
- Farmers who have already harvested their crops, should maximize profits by exploring market opportunities. They should connect with agricultural extension services for valuable market information.
- Farmers are advised to establish robust collaborations with Meteorological staff and other technical personnel like Agricultural Extension officers and actively engage with them to deepen their understanding of weather patterns and their implications for agricultural activities.

For inquiries or any clarification, please use the contacts on the letterhead.

Mary Githinji

***FOR*: DIRECTOR OF METEOROLOGICAL SERVICES**

Kindly send feedback to
The director,
Kenya meteorological department,
P.O Box 30259 – 00100
NAIROBI.
Email: Agrometkenya@gmail.com