



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: 14/2024

Date: 22/05/2024

DEKAD 14 PERIOD: 11TH – 20TH MAY 2024.

1.0 HIGHLIGHTS

- Few parts of the Country received moderate to heavy rainfall during the dekad.
- Kangema station in Muranga reported the highest amount of rainfall 146.0 mm, followed by Kakamega in Western Kenya with 133.9 mm. (Figures 3.1 and 3.3).
- Mean air temperature increased over most parts of the country during the current dekad. (Figures 3.2 and 3.4).
- Total pan evaporation decreased over most stations due to high humidity levels, cloudy and calm wind conditions during the dekad.
- During the next ten days, rainfall activities are expected to reduce over most parts of the country, except over the Highlands East and West of the Rift Valley and the Lake Victoria basin.
- North Western, North eastern and South Eastern Lowland will be mostly sunny.
- The sunny conditions in most parts the country is expected to affect the crops negatively.

**WEATHER AND CROP REVIEW FOR THE
11TH – 20TH MAY 2024.**

2.0 WESTERN AND NYANZA REGION

Most stations in the region reported high rainfall though the amount was less than the previous dekad. Mean air temperature in the region increased and ranged between 21.7°C to 24.3 °C. Scattered cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 133.9 mm which was above its long-term mean.

The average mean air temperature at the station increased from 23.2°C to 23.4°C The station reported scattered cloud cover throughout the dekad.

Maize is in the ninth leaf stage and beans are at the flowering stage and both crops are in good state.

KISII:

The station recorded 87.1 mm of rainfall, which was above normal. Mean air temperature increased from 21.3°C to 21.7°C during the same period.

The station reported scattered cloud cover during both morning and afternoon hours throughout the dekad.

Maize has attained flowering stage and beans are in the post flowering stage and both crops are in good state.

2.20 RIFT VALLEY REGION

Most parts of the region reported reduced rainfall compared to the previous dekad.

Mean air temperature in the region ranged between 18.5 °C to 21.2 °C. Scattered cloud cover was observed over most of the region during the dekad.

2.2 KITALE:

The station recorded 24.1 mm of rainfall during the dekad. The mean air temperature decreased from 21.6°C to 21.2°C.

The station reported scattered cloud cover during the dekad

Maize has attained ninth leaf stage and beans budding stage and both crops are in good state.

2.3 KERICHO:

The station reported a rainfall amount of 68.7 mm which is below its long-term mean of 81.7 mm. Mean air temperature remained the same as the previous dekad at 19.3°C.

The station reported scattered cloud cover and total pan evaporation of 32.3 mm during the dekad

Maize has attained ninth leaf stage and beans flowering stage and both crops are in good state.

2.3.0 CENTRAL AND NAIROBI REGION.

All stations reported reduced rainfall compared to the previous dekad (Fig 3.3). Mean air temperature increased in the region and ranged between 16.5°C and 22.3°C. Most stations from the region reported scattered cloud cover throughout the dekad.

NYERI:

The station reported a cumulative rainfall amount of 20.7 mm which was below the long term dekadal mean of 50.7 mm.

Mean air temperature slightly increased from 20.5°C to 21.0°C during the dekad.

Cloud cover was scattered throughout the dekad.

Maize has attained the post-emergence stage and beans budding stage and both crops are in good state.

2.3.1 THIKA:

The station received a rainfall amount of 34.0 mm which is below its long-term dekadal mean. Mean air temperature slightly decreased from 22.0°C to 22.3°C during the dekad

The station reported scattered cloud cover during the dekad.

Maize is in the emergence stage and beans are in the flowering. Excessive rainfall has affected the normal growth of beans and below normal yield is expected.

2.3.2 DAGORETTI

The station reported a cumulative amount of 82.4 mm which is above its long-term dekadal mean of 57.8 mm. The mean air temperature slightly decreased from 20.1 °C to 20.6 °C during the dekad. The station reported scattered cloud cover during the dekad.

Maize is at the ninth leaf stage and beans flowering stage and both crops are in good state.

2.3.3 KABETE:

The station reported a cumulative rainfall amount of 58.4 mm during the dekad. The mean air temperature at the station slightly increased from 19.9°C to 20.4°C. The station reported broken cloud cover throughout the dekad.

Maize is at the ninth leaf stage and beans flowering stage and both crops are in good state.

2.3.5 NYAHURURU:

The station received rainfall amount of 29.6mm which was below its long-term mean of 39.6 mm. The mean air temperature at the station decreased from 17.4 to 16.5°C. The station reported scattered clouds covered throughout the dekad. Maize is in the emergence stage and beans flowering stage and both crops are in good state.

2.4.0 EASTERN REGION:

The Eastern region reported no rainfall compared to the previous dekad except in the Meru, Embu and Machakos which recorded 54.3mm, 4.8mm and 2.1 mm respectively. (Fig 3.2). Mean air temperature ranged between 20.5°C and 25.0°C. Scattered cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded a cumulative rainfall amount of 54.3 mm which was above the long-term decadal mean of 22.2 mm. Mean air temperature slightly increased from 20.1°C to 20.5 °C.

Scattered cloud cover was observed throughout the dekad.

Both maize and beans have attained the emergence stage and are in a good state.

2.4.2 EMBU:

The station reported a cumulative rainfall amount of 4.8 mm which is a negative deviation from its long term mean of 61.4mm during the dekad. The mean air temperature during the dekad was 21.4°C up from 21.2 °C the previous dekad.

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

Both maize and beans have attained the emergence and flowering stage respectively and are in a good state.

2.4.3 KATUMANI:

The station reported 2.1 mm of rainfall which was below the long-term mean of 14.7 mm.

A scattered cloud cover was reported during the dekad.

Maize and beans have attained the emergence and flowering stage and are in a good state.

2.50 COASTAL REGION:

The Coastal region reported nil rainfall except Malindi and Mombasa which recorded 2.3 mm and 1.6mm respectively. The mean air temperature ranged between 27.9°C and 29.4°C. Few cloud conditions was observed in the region throughout the dekad

2.5.1 MTWAPA:

The station recorded no rainfall as compared to its long term dekadal mean of 108.3mm. Mean air temperature slightly increased from 27.3°C to 28.1°C. Scattered cloud cover was observed all through the dekad.

Both maize and beans have attained the emergence and flowering stage respectively and are in a good state.

2.5.2 MSABAHA:

The station reported nil rainfall during the dekad. The mean air temperature slightly increased from 28.1°C to 28.5°C. Few clouds cover was observed throughout the dekad

Both maize and beans have attained the emergence stage and insufficient rainfall is affecting their normal growth.

2.6 NORTH EASTERN REGION:

Most stations in the region reported no rainfall during the dekad. Mean air temperature ranged between 23.1°C to 30.4°C.

Few clouds cover dominated the region all through the dekad.

Pasture and forage conditions are doing well due to the rains and water levels rising over several water/earth pans in the region.

DEKAD 14 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

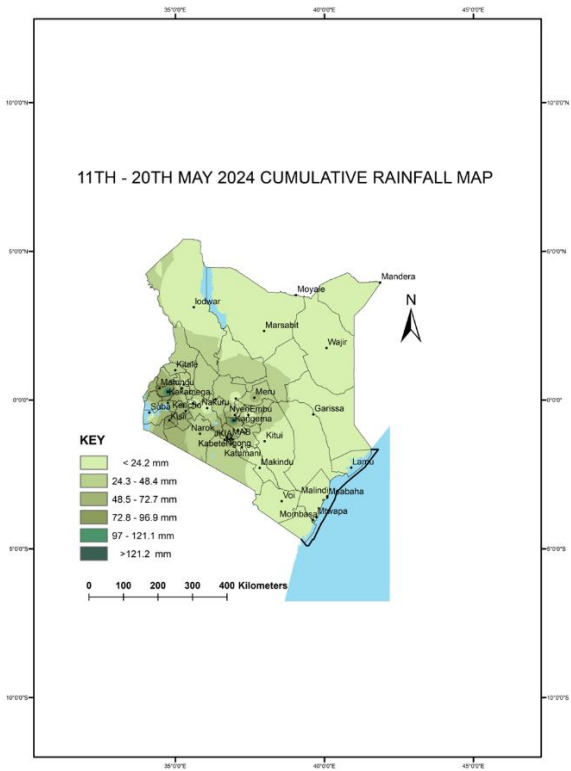


Fig: 3.1

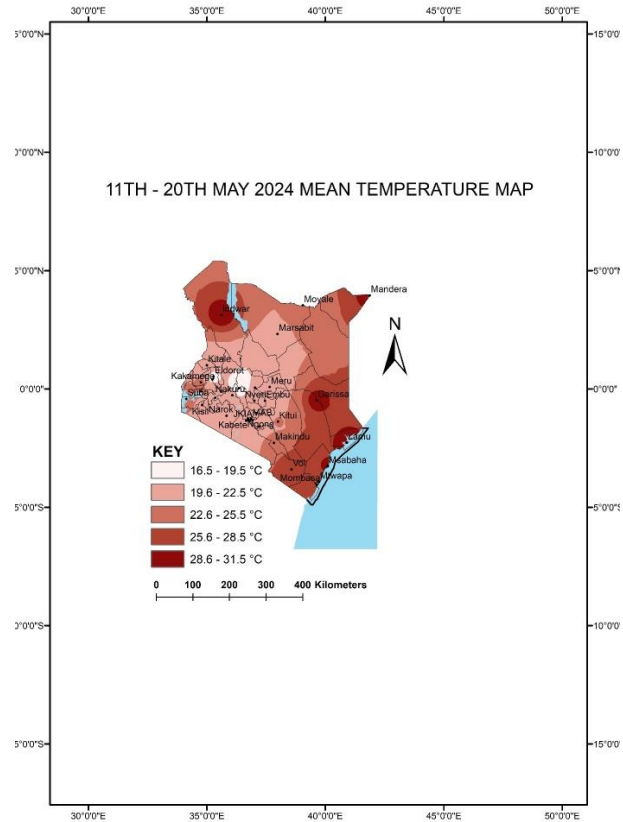


Fig: 3.2

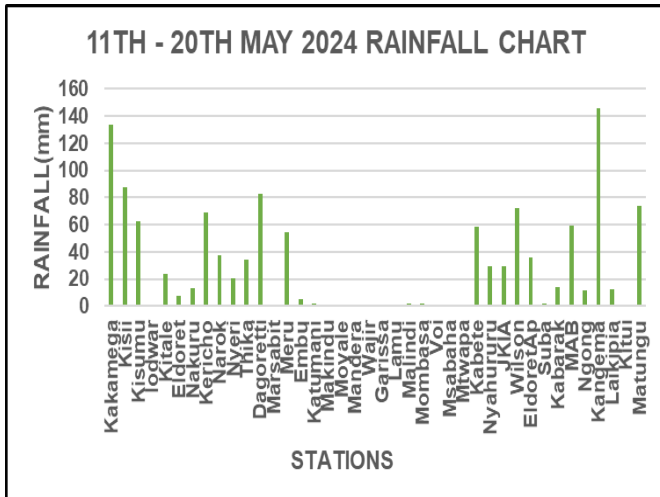


Fig: 3.3

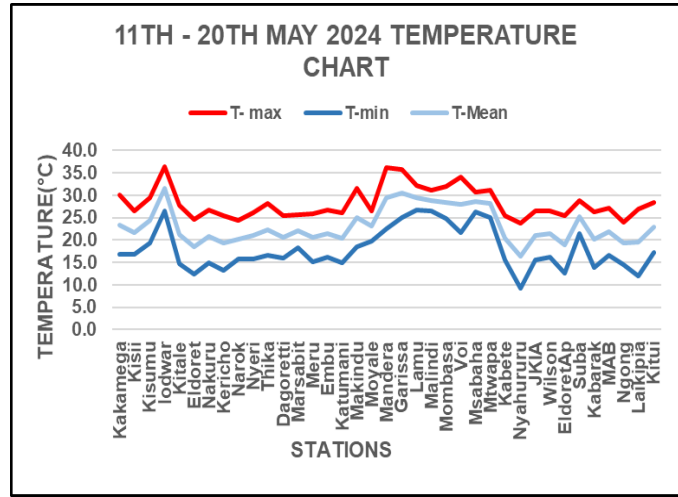


Fig: 3.4

Station	Total RF from start MAM 2024	Maximum consecutive days with RF \geq 1.0 mm	Maximum consecutive dry days during the season	Number of days RF \geq 5.0 mm
Kakamega	791.7	11	16	36
Kisii	826.9	28	8	42
Kitale	404.3	9	14	24
Kericho	799.3	12	15	25
Nyeri	614.3	14	13	27
Thika	989.3	20	12	34
Dagoretti 1	1079.0	18	10	31
Meru	643.4	14	14	24
Embu	933.8.02	15	14	31
Katumani	829.4	9	13	24
Msabaha	309.42	5	16	12
Mtwapa	376.1	6	28	19
Kabete	1146.6	16	9	39
Nyahururu	518.7	15	18	24
Eldoret Kapsoya	412.4	7	19	25

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP

CONDITIONS DURING THE NEXT TEN (10) DAYS;

21ST – 31TH MAY 2024.

In the Western and Nyanza regions, rain over few areas is expected in the morning with likelihood of showers over several places in afternoon. Nights are likely also to receive showers over several places during the forecasted period.

The crops are expected to keep on doing well due to favourable weather.

In the Central region and Nairobi County, morning is likely to be cloudy breaking into sunny intervals. Afternoon and

night showers are expected over several places during the half of the forecasted period. The last half is expected to record showers over few places.

The crops in the region are expected to keep on developing owing to the available moisture in the region.

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

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

In southeastern lowlands, Sunny intervals are expected during the day while nights are likely to be partly cloudy.

Crops and pasture condition is expected to continue improving during the coming dekad due to sufficient soil moisture

In the Coastal region, sunny intervals are expected during the day while nights are likely to be partly cloudy.

The expected cloudy condition is expected to provide cover thus controlling over evapotranspiration in the crop field.

4.1 AGRO-ADVISORY:

- ❖ Farmers should focus on weed control measures to minimize competition for moisture and nutrients
- ❖ Pastoralists in North Western Kenya, North Eastern regions, should make proper use and preservation of pasture & forage.
- ❖ Grow and make proper use and preservation of pasture & forage.
- ❖ 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.

- ❖ Advocating for fertilizer use due to the likelihood of soil erosion
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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