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AGROMETEOROLOGICAL BULLETIN

Ref: MET/8 /001 / 1 **Issue No: 17/2024** **Date: 23/06/2024**

DEKAD 17 PERIOD: 11TH – 20TH JUNE 2024.

1.0 HIGHLIGHTS

- Few parts of the Country received moderate to heavy rainfall during the dekad.
- Rabuor station in Migori County reported the highest amount of rainfall 116.4 mm, followed by Malindi and Mtwapa stations at the coast with 106.6 mm and 100.7 mm. (Figures 3.1 and 3.2).
- Mean air temperature continued to decrease over most parts of the country with the highest decrease of 1.7 ℃ being recorded at Kitui station (Figures 3.2 and 3.4).
- Total pan evaporation decreased over most stations due to prevailing low temperatures and cloudy conditions during the dekad.
- During the next ten days, rainfall activities are expected over the Highlands East and West of the Rift Valley and along the Coastal strip. The rest of the Country is generally expected to remain dry.

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD 11TH – 20TH JUNE 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 decreased and ranged between 20.9 ˚C to 24.8 ˚C. Scattered clouds dominated the region throughout the dekad.

2.1.1 KAKAMEGA:

The station reported 66.2 mm of rainfall which was normal during this dekad

The average mean air temperature at the station decreased from 22.6˚C to 22.2˚C. The station reported scattered cloud cover during the morning and broken in the afternoon hours.

Maize is in the maturing stage and in good state. Beans have attained full ripeness and most farmers are now harvesting beans with below normal yield expected.

2.1.2 KISII:

The station recorded 56.6 mm of rainfall, which was quite normal during the dekad. Mean air temperature decreased slightly from 21.9 °C to 20.9°C.
The station reported scattered cloud cover during morning and broken cloud cover in the afternoon hours during the dekad.

Maize is in the flowering stage and in good state despite attack from fall army worms. Beans have attained full ripeness and most farmers have started harvesting beans with below normal yield is expected.

2.2 RIFT VALLEY REGION

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

Mean air temperature in the region slightly dropped and ranged between 17.0 ˚C to 20.0 ˚C. Broken cloud cover dominated the region during the dekad.

2.2.1 KITALE:

The station recorded 23.8 mm of rainfall during the dekad. The mean air temperature decreased from 20.5˚C to 20.0˚C. The station reported broken cloud cover during the dekad

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

2.2.2 KERICHO:

The station reported a rainfall amount of 68.8 mm which was above its long-term mean of 50.9 mm.
Mean air temperature decreased from 19.1 ˚C to 18.1 ˚C.
The station reported broken cloud cover during the morning and in the afternoon. Total pan evaporation increased 35.2 mm to 35.8 mm during the dekad.

Maize has attained flowering stage and is in good state. Beans have also attained maturing stage and are in good state.

2.3 CENTRAL AND NAIROBI REGION.

Few stations reported less rainfall amounts compared to the previous dekad (Fig 3.1). Mean air temperature decreased in the region and ranged between 14.5 ˚C and 20.6 ˚C. Most stations from the region reported broken cloud cover throughout the dekad.

2.3.1 NYERI:

The station received 12 7 mm which was normal this time of the year.

Mean air temperature slightly reduced from to 19.6 ˚C to 18.7 ˚C during the dekad.

Cloud cover was broken throughout the dekad.

Maize has attained the post-emergence stage and beans are at flowering stage and both crops are in good state with no adverse effects reported.

THIKA:

The station received 4.0 mm which was normal this time of the year. Mean air temperature slightly decreased from 21.1˚C to 19.8˚C during the dekad

The station reported broken cloud cover during the whole dekad.

Maize is in the flowering stage and beans at maturing stage. Both crops are in poor condition and crop failure is expected.

2.3.2 DAGORETTI

The station reported a cumulative amount of 82.4 mm which was again above its long-term dekadal mean of 13.0 mm. The mean air temperature slightly increased from 19.3 ˚C to 20.6 ˚C during the dekad. The station reported broken cloud cover during the dekad.

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

2.3.3 KABETE:

The station reported a cumulative rainfall amount of 7.1 mm during the dekad. The mean air temperature at the station slightly decreased from 19.1˚C to 17.6˚C. The station reported broken cloud cover throughout the dekad.

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

2.3.4 NYAHURURU:

The station received rainfall amount of 3.8 mm which was below its long-term mean of 34.5 mm. The mean air temperature at the station decreased from 15.9 to 14.5 ˚C. The station reported few clouds covered during morning and broken cloud cover during afternoon.

Both maize and beans have attained the emergence stage and are in a good state. Weeding is on-going

2.4 EASTERN REGION:

The entire Eastern region reported dry or light rainfall conditions during the current dekad. Mean air temperature ranged between 18.1˚C and 22.6 ˚C. Broken cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station reported 1.0mm during the dekad. Mean air temperature slightly decreased from 19.2°C to 18.1 ˚C.

Scattered cloud cover was observed during morning and afternoon hours.

Both maize and beans have attained harvesting stage. Below normal yield expected for maize and normal yield for beans.

2.4.2 EMBU:

The station reported 6.0 mm. The mean air temperature slightly decreased from 20.0˚C to 18.9˚C during the dekad. The station reported broken cloud cover throughout the dekad. Maize is at flowering stage and in a good state. Beans have attained maturity but were affected by excessive rainfall during the season.

2.4.3 KATUMANI:

The station reported 5.3 mm during the period under review.

Mainly scattered cloud cover was reported during the dekad.

Maize and beans have attained flowering stage, both crops have started showing signs of water stress due to the dry spells within the season.

2.5 COASTAL REGION:

The Coastal region reported increased rainfall compared to the previous dekad. The mean air temperature ranged between 26.3˚C and 28.2˚C. Scattered to broken cloud cover dominated most parts during the dekad.

2.5.1 MTWAPA:

The station recorded 100.7 mm of rainfall which was above its long term dekadal mean of 38.1 mm. Mean air temperature decreased from 28.0 ˚C to 27.2 ˚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 insect pests, birds and wild animals.

2.51 MSABAHA

The station recorded 92.9 mm of rainfall which was above its long term dekadal mean of 50.6 mm. Mean air

temperature decreased from 28.0˚C to 27.5 ˚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 insect pests, birds and wild animals.

DEKAD 17 2024 RAINFALL AND TEMPERATURE CHARTS/ MAPS & TABLES

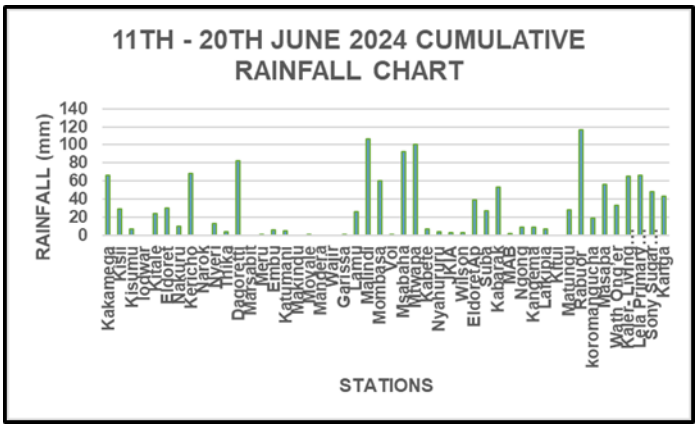

Fig: 3.2

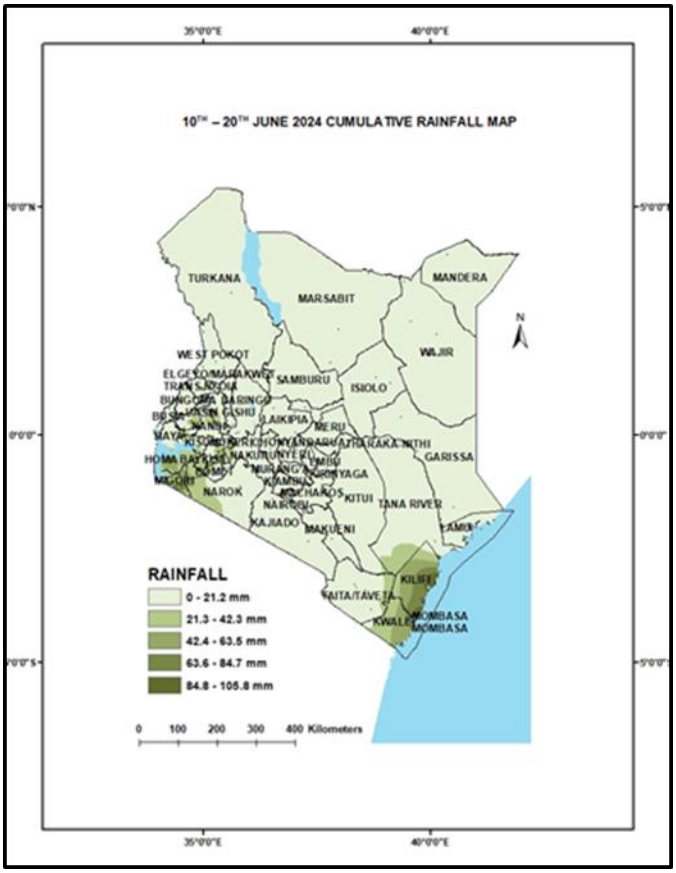

Fig: 3.1

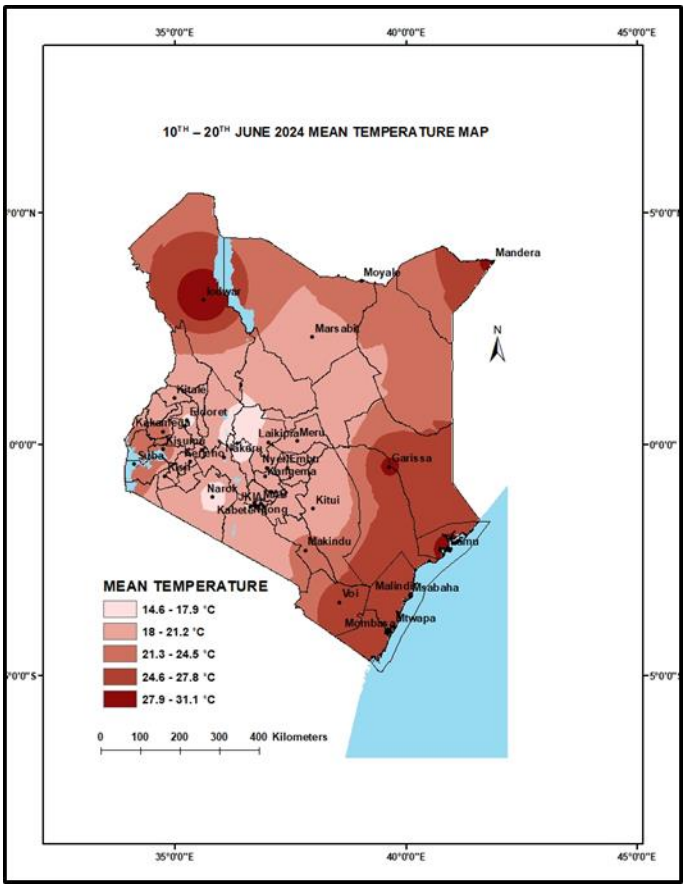

Fig: 3.3

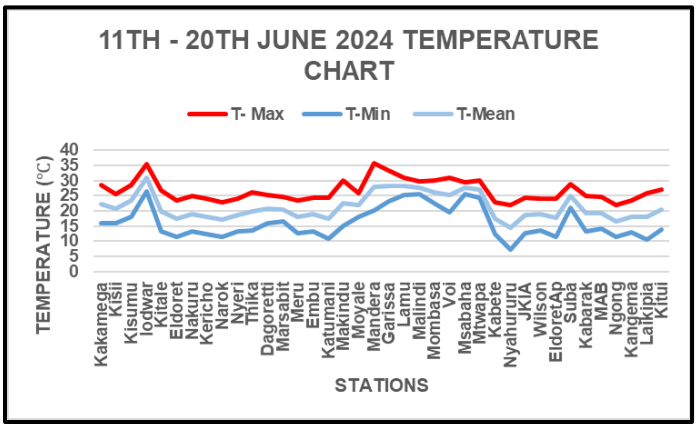

Fig: 3.4

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	2	8	131.12
Kisii	3	1	5	85.41
Kitale	3	3	4	54.71
Kericho	6	1	9	100.52
Nyeri	2	12	1	12.71
Thika	1	17	1	19.3
Dagoretti	2	4	6	151.31
Meru	0	19	0	0.6
Embu	1	10	1	6.01
Katumani	2	18	0	5.3
Msabaha	2	8	2	93.41
Mtwapa	2	5	2	105.31
Kabete	2	10	4	70.7
Nyahururu	1	6	1	25.3
Kabarak	2	3	3	62.61

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 21ST – 30TH JUNE 2024.

In the Western and Nyanza regions, sunny intervals are expected in the morning with likelihood of light rains over few places in afternoon. Nights are likely also to receive showers over few places during the forecasted period.

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

In the Central region and Nairobi County, morning is likely to be cloudy, with light rains over few places giving way to sunny intervals. Afternoon and night showers are expected over few places. Crops are expected to continue growing well

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

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

In southeastern lowlands, mornings are likely to be cloudy with light rains over few places. Light afternoon showers expected over few places during first half of the forecasted period 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. There is a possibility of occasional morning and afternoon showers occurring over few places.

Crop condition is expected to continue improving during the coming 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 postharvest 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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