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AGROMETEOROLOGICAL BULLETIN

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DEKAD 10 PERIOD: 21ST – 30TH APRIL 2024.

1.0 HIGHLIGHTS

- Several parts of the Country received heavy to very heavy rainfall during the dekad.
- Kabete station in Nairobi reported the highest amount of rainfall 395mm, followed by Embu in Eastern with 364mm. (Figures 3.1 and 3.3).
- Mean air temperature declined over most parts of the country by at least 0.5˚c though over some areas mean air temperatures dropped by more than 4.2 ˚C (Figures 3.2 and 3.4).
- Total pan evaporation decreased over most stations due to declining temperatures and the prevailing cloudy conditions.
- During the next ten days, moderate to heavy rainfall is expected to continue over several parts of the country, especially over the Highlands East and West of the Rift Valley, South Eastern Lowlands, and the Coastal strip.

2.0 WEATHER AND CROP REVIEW FOR THE 21ST – 30TH APRIL 2024.

2.1 WESTERN AND NYANZA REGION

Most stations in the region reported reduced rainfall compared to the previous dekad. Mean air temperature in the region ranged between 21˚C to 24.7 ˚C. Scattered to broken cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 97.0 mm which was normal during the period under review.

The average mean air temperature at the station dropped from 24.1˚C to 23.2˚C from the previous dekad. The station reported broken cloud cover throughout the dekad.

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

2.12 KISII:

The station recorded 96 mm of rainfall, which was also normal during this dekad. Mean air temperature dropped from 22.4°C to 21.1°C during the same period.

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

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

2.20 RIFT VALLEY REGION

Several parts within the region reported enhanced rainfall compared to the previous dekad.

Mean air temperature in the region dropped during the dekad and ranged between 19.2 ˚C to 21.5 ˚C. Broken cloud cover was observed over most of the region during the dekad.

2.2.1 KITALE:

The station recorded 88 mm of rainfall during the dekad. The mean air temperature dropped slightly from 20.4˚C to 21.5˚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.

2.2.2 KERICHO:

The station reported a rainfall amount of 157 mm which is above its dekadal long-term mean of 100.1 mm. Mean air temperature remained constant at 19.2˚C as in the previous dekad.

The station reported broken cloud cover and total pan evaporation of 33.7 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 enhanced rainfall compared to the previous dekad (Fig 3.3). Mean air temperatures increased in the region and ranged between 17.4˚C and 22.3˚C most stations from the region reported broken cloud cover throughout the dekad.

2.3.1 NYERI:

The station reported a cumulative rainfall amount of 170 mm which was above the long term dekadal mean of 80.8mm. Mean air temperature slightly decreased from to 21.1˚C to 20.8˚C during the dekad.

Cloud cover was broken throughout the dekad.

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

2.3.2 THIKA:

The station received a rainfall amount of 317 mm which is above its long-term dekadal mean. The station reported broken cloud cover and total pan evaporation of 47.2 mm during the dekad.

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

2.3.3 DAGORETTI

Reported a cumulative amount of 315 mm which is above its long-term dekadal mean of 87.5mm. The mean air temperature slightly decreased from 20.6 ˚C to 20.4 ˚C during the dekad. The station reported broken cloud cover during the dekad.

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

2.3.4 KABETE:

The station reported a cumulative rainfall amount of 395 mm during the dekad. The mean air temperature at the station slightly increased from 20.4˚C to 20.6˚C. The station reported broken cloud cover throughout the dekad.

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

2.3.5 NYAHURURU:

The station received rainfall amount of 126 mm which was above its long-term dekadal mean of 47 mm. The mean air temperature at the station slightly increased from 17.2˚C to 17.4˚C. The station reported broken clouds covered throughout the dekad.
Maize has attained third leaf stage and beans budding stage and both crops are in good state. .

2.4.0 EASTERN REGION:

The Eastern region reported enhanced rainfall compared to the previous dekad (Fig 3.2). Mean air temperature ranged between 21.2˚C and 24.9˚C. Broken cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded a cumulative rainfall amount of 109 mm which was slightly above the long-term decadal mean of 104.2 mm. Mean air temperature slightly decreased from 21.3°C to 21.2 ˚C.

Broken 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 364 mm during the dekad. The mean air temperature during the dekad was 21.7˚C.

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

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

2.4.3 KATUMANI:

The station reported 287 mm of rainfall which was above the long-term mean rainfall during the dekad.

A broken cloud state was reported during the dekad.

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

2.50 COASTAL REGION:

The Coastal region reported low rains compared to the previous dekad. The mean air temperature ranged between 27.5˚C and 28.3˚C. Broken cloudy conditions was observed in the region throughout the dekad

2.5.1 MTWAPA:

The station recorded a rainfall amount of 46 mm which was below its long term dekadal mean of 102.5mm. Mean air temperature slightly decreased from 28.8˚C to 28.3˚C. Broken cloud cover was observed all through the dekad.

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

2.5.2 MSABAHA:

The station reported a rainfall amount of 69 mm during the dekad. The mean air temperature slightly decreased from 29˚C to 28.3°C. Broken cloud cover was observed although the dekad

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

2.6 NORTH EASTERN REGION:

Most stations in the region reported moderate to heavy rainfall during the dekad. Mean air temperature ranged between 27.7˚C to 30.7˚C.

Broken cloud cover dominated the region all through the dekad.

Pasture and forage conditions have started improving with the rains and water levels rising over several water/earth pans in the region.

DEKAD 12 2024 RAINFALL AND TEMPERATURE MAPS/ CHARTS & TABLES

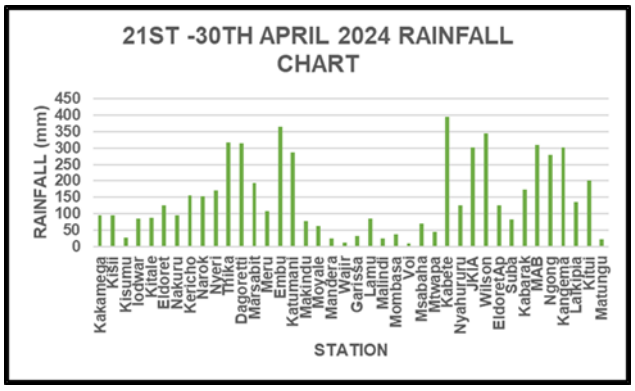

Fig: 3.2

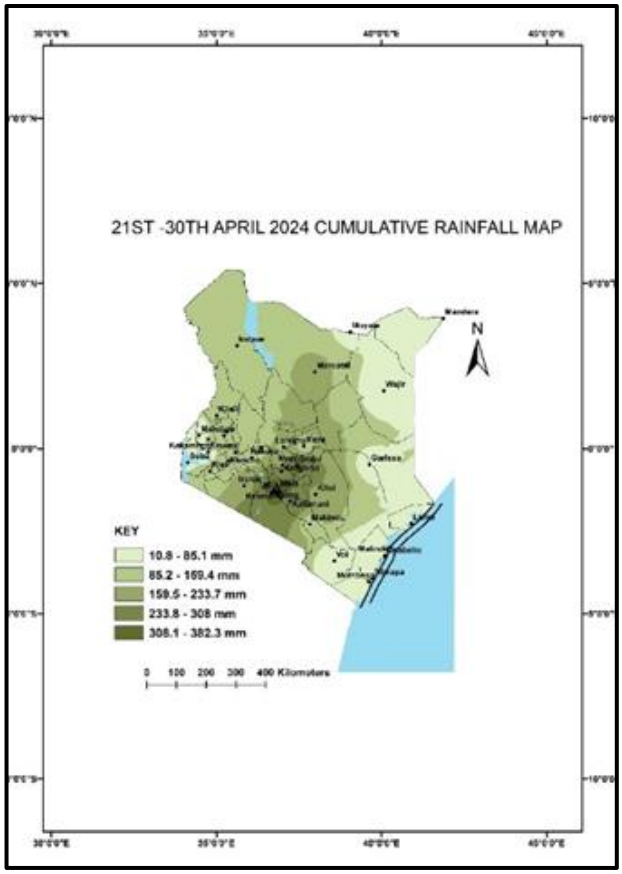

Fig: 3.2

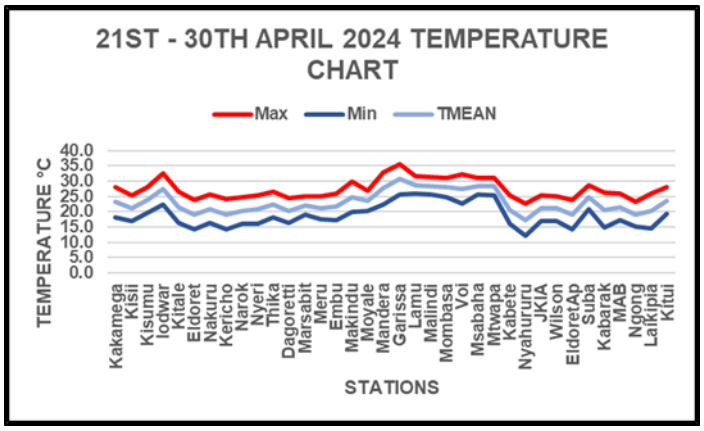

Fig: 3.3

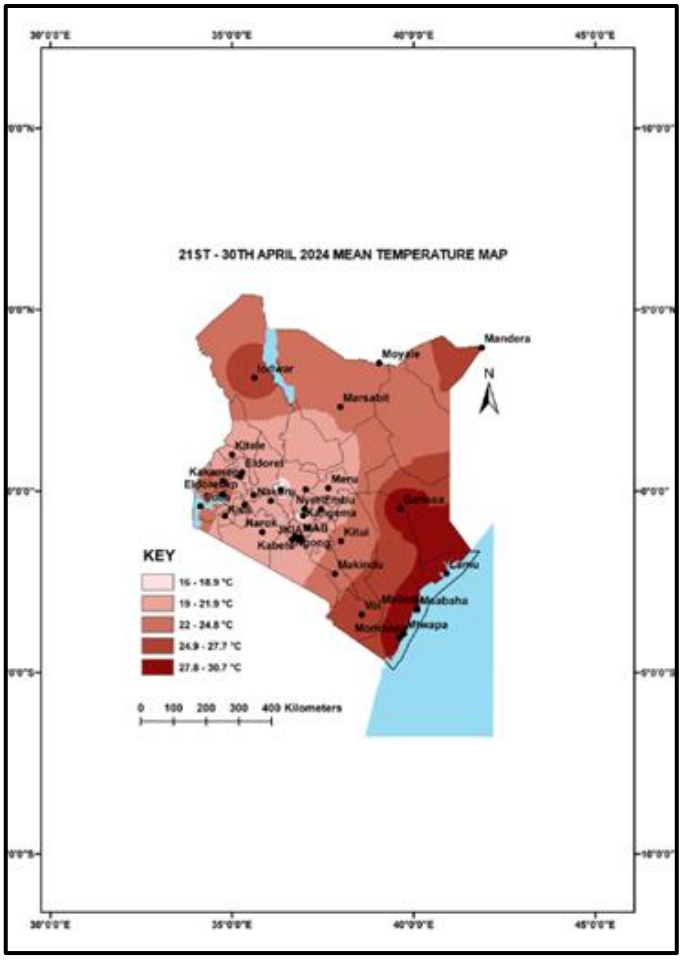

Fig: 3.4

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

1ST – 10TH May 2024.

In the Western and Nyanza regions, morning rains are likely to occur over few places. Afternoon and night showers are expected over several places, during the forecasted period.

In the Central region and Nairobi County, morning rains are likely to occur over few places. Afternoon and night showers are expected over several places during the forecasted period

North Western, morning rains are likely over few places as well as afternoon and night showers over few places during the first half and sun intervals over the last half of the forecast period

North Eastern, morning rains as well as afternoon and night showers are expected over few places in the first half and sun intervals over the last half of the forecasted period.

Southeastern lowlands, morning rains as well as afternoon and night showers are expected few over places in the first half and sun intervals over the last half of the forecasted period.

In the Coastal region, morning, afternoon and night showers are expected over few places, spreading to several places over the forecasted period.

4.1 AGRO – ADVISORY:

- Farmers are advised to dig tunnels to drain stagnant water to improve soil aeration where there are drainage challenges. Should put in place soil erosion and weed control measures because of the expected enhanced rains.

- Pastoralists in North Western Kenya, North Eastern regions, South Rift Valley and the South Eastern Lowland are advised to vaccinate, drench, and be on the lookout for disease outbreaks like Rift Valley fever foot and mouth disease especially during this period of too much flooding everywhere..

- Communities should take advantage of the current rains to harvest water for use during dry periods.

Grow and make proper use and preservation of pasture & forage.

- 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 or any clarification, please use the contacts on the letterhead.

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FOR:

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