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KMD 10 DAY AGROMETEOROLOGICAL BULLETIN

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DEKAD 12 PERIOD: 21ST –30TH APRIL 2025.

Date: 06/5/2025

1.0 HIGHLIGHTS

- During the period under review, rainfall decreased significantly over most parts of the country. Most stations reported below-normal precipitation. Notably:
- Mtwapa station in Coastal region recorded the highest rainfall at 135.4 mm, followed by Wilson Airport station in Nairobi with 135.0 mm.
- Soil moisture levels are good across the country which is favorable for agricultural activities, including crop and pasture growth.
- Mean air temperatures decreased significantly in most parts of the country, compared to the previous dekad.
- Total pan evaporation readings showed an increment over several parts of the country.
- Looking ahead, rainfall is expected over several parts of the country in the next ten days. Isolated heavy rainfall events are expected over Rift valley, Nyanza and Coastal parts of the country.
- The expected weather conditions creates favorable conditions for crop and pasture growth.

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD 21ST – 30TH APRIL 2025.

2.1 WESTERN AND NYANZA REGION

During the period under review, the Western and Nyanza regions of Kenya experienced below normal rainfall compared to the Long Term Mean of the dekad under review, with Kisii recording the highest amount. Mean air temperatures slighlty increased, ranging between 23.7°C and 21.4°C, with broken cloud cover dominating.

Kakamega: Received 60.3 mm of rainfall. Mean air temperature increased from 22.0°C to 22.9°C. Both maize and bean crop are at post emergence stage and are doing well.

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Kisii: Recorded 65.8 mm of rainfall, below the long-term mean of 96.1 mm. Mean temperature raised from 20.3°C to 21.4°C. Maize and beans are performing fairly well except from few cases of black aphids on bean crop.

These conditions indicate a favorable environment for agricultural activities, especially on crop and pasture growth.

2.2 RIFT VALLEY REGION

During the recent dekad, the Rift Valley region experienced below normal rainfall, compared to the long term mean of the dekad under review. Mean air temperatures decreased across the region except in Kericho, with broken cloud cover prevailing.

Kericho: Recorded 33.9mm of rainfall, below its long-term mean of 100.1 mm with mean temperature at 18.3°C. Maize crop and beans are doing well.

Kitale: Received 29.4 mm of rainfall, with temperatures decreasing from 20.3°C to 20.1°C. Crops have germinated and in good state.

Eldoret: Recorded 1.8 mm of rainfall,with mean air temperature decreasing from 19.9°C to 18.7°C.

These climatic conditions have positively impacted agricultural activities in the Rift Valley.

2.3 CENTRAL AND NAIROBI REGION.

During the recent dekad, the Central Kenya Highlands and Nairobi area experienced below-normal rainfall during the dekad under review. Mean air temperatures decreased across most stations, accompanied by prevalent broken cloud cover.

Thika: Recorded 19.5 mm of rainfall, with temperatures dropping from 22.3°C to 22.1°C. Maize and bean crops have germinated and are doing well.

Dagoretti: Recorded 55.7 mm of rainfall, with temperatures decreasing from 20.6°C to 19.9°C. Weeding is ongoing.

Kabete: Reported 52.5 mm of rainfall. Crops have germinated and are doing well.

Nyeri: Received 39.9mm of rainfall, below the long-term mean of 97.3 mm. Mean temperature decreased from 20.6°C to 19.7°C. Weeding is ongoing.

Nyahururu: Recorded 25.8 mm of rainfall, with mean temperature decreasing from 16.5°C to 15.9°C. Broken cloud cover was observed throughout the dekad.

These conditions have generally supported agricultural activities, including crop and pasture growth.

2.4 EASTERN REGION:

During the dekad under review, this region experienced below-normal rainfall. Mean air temperatures decreased and broken cloud cover was prevalent.

Meru: Received 91.2 mm of rainfall, with temperatures decreasing from 21.1°C to 19.8°C. Crops are doing well and weeding is ongoing.

Embu: Recorded 66.7 mm of rainfall, with temperatures decreasing from 21.4°C to 20.0°C. Crops have germinated and are in good state.

Katumani: Received 32.9 mm of rainfall, below the long-term mean of 46.4 mm, with temperatures at 20.8°C.
Weeding is ongoing.

2.5 COASTAL REGION

The region recorded above-normal rainfall. Soil moisture levels were good for crop development and pasture growth, with mean air temperatures decreasing compared to the previous dekad. Scattered cloud cover was dominant throughout the period.

Mtwapa: Received 135.4mm of rainfall, with temperature decreasing from 28.6°C to 27.6°C. Crops have germinated and are doing well.

Msabaha: Recorded 22.3mm of rainfall, with temperatures decreasing from 28.9°C to 28.3°C. Mangoes are at flowering stage.

2.6 NORTH EASTERN REGION:

Most stations in the region reported above moderate rainfall during this period. The soil moisture levels have improved and conducive for pasture growth. Mean air temperature ranged between 28.6 ˚C in Wajir and 31.6˚C in Mandera. Broken cloud cover dominated over several parts of the region.

3.0 DEKAD 12 2025 RAINFALL, TEMPERATURE & WRSI MAPS / CHARTS

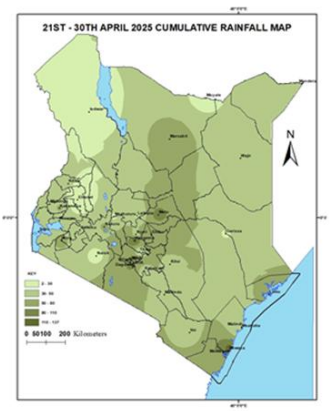


Fig 3.1

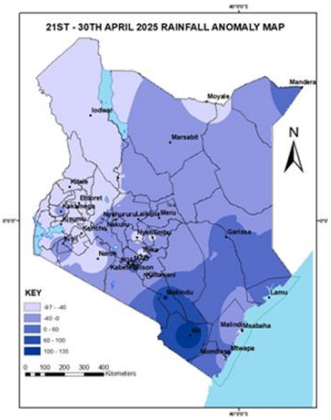


Fig 3.2

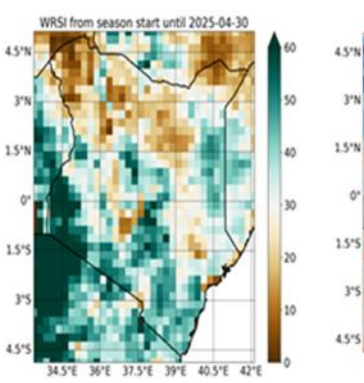
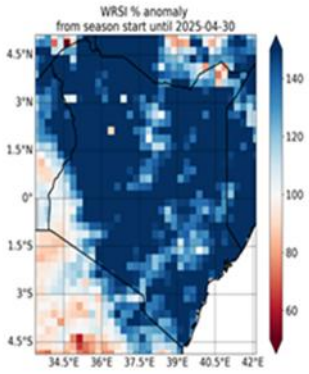


Fig 3.3



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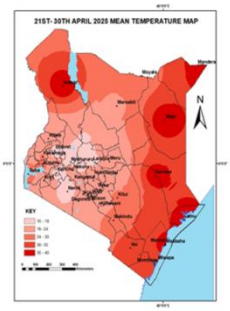

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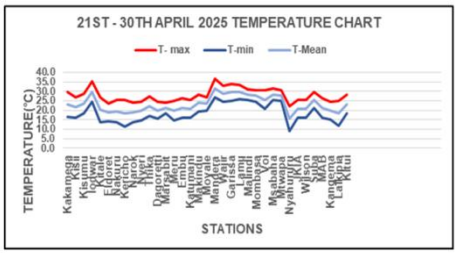

Fig 3.6

4.0 EXPECTED WEATHER, SOIL AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 1st – 10TH May 2025.

Western, Nyanza, and South Rift Valley: These regions are expected to receive above -normal rainfall, providing favorable conditions for crops to grow well.

Central Region & Nairobi: These regions are expected to experience normal rainfall during this period.

North Western: This area is expected to receive average rainfall during this period.

North Eastern:Normal to below normal rainfall is expected in this region during this region.

South-Eastern Lowlands & Coastal Counties: These areas are expected to receive normal to above normal rainfall.

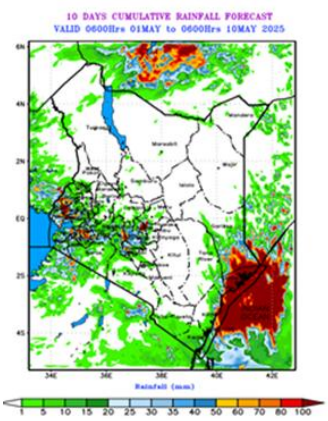

Fig 3.7

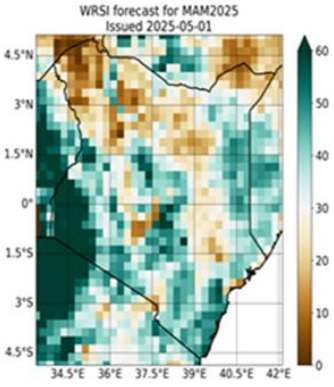

Fig 3.8

Agricultural Impact

Crops and pasture conditions are expected to grow well due to the anticipated wet conditions.

Soil moisture levels will be sufficient across most parts of the country, supporting agricultural and tree planting activities.

4.1 Agro-Advisory for Farmers and Pastoralists

Planting and Weeding:
Farmers are encouraged to practice good agricultural practise on their farms to maximize on the yields. Engaging with agricultural extension officers can provide guidance on the best agricultural practices.

Increased soil moisture levels in rangelands and game parks have positively impacted pasture growth and tree health, reducing the risk of wildfires and mitigating human-wildlife conflicts. Sustaining these moisture levels is essential for ongoing ecological balance and agricultural productivity.

Pastoralists are advised to cultivate additional pasture during this favorable season to ensure adequate feed for livestock. Planting suitable grass species can enhance pasture availability and contribute to rangeland rehabilitation.

Farmers should actively engage with meteorological services and technical experts at the community level to access timely weather and climate information. This collaboration supports informed decision-making, enabling farmers to adapt to changing weather patterns and optimize agricultural practices.

By implementing these strategies, farmers and pastoralists can enhance their resilience and productivity in the face of evolving climatic conditions.

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