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AGROMETEOROLOGICAL BULLETIN

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DEKAD 25 PERIOD: 1ST – 10TH
SEPTEMBER 2023.

the Central region are expected to continue receiving moderate to heavy rainfall.

1.0 HIGHLIGHTS

- During the period under review, several stations reported moderate rainfall in Western, Nyanza, Rift valley and some parts of Central regions.
- Kisii Meteorological station in Nyanza region reported the highest amount of rainfall followed by Kakamega and Eldoret stations. (Figs; 3.1 & 3.2).
- Mean air temperature dropped over most stations except in Eastern and Northeastern regions (Figs. 3.3 & 3.4).
- There was a significant improvement of soil moisture levels over many parts of the Country especially the western sector.
- Harvesting of maize and beans has been completed over most parts of the Country and farmers are now preparing their farms for the next season.
- During the next ten (10) days, several parts of Western, Nyanza, Rift valley and

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD: 1ST – 10TH SEPTEMBER 2023

2.1 SUMMARY

Most stations within Western, Nyanza and Rift Valley regions, reported an improvement in the amount of rainfall received compared to the previous dekad. Kisii Meteorological station reported the highest amount (153.0 mm) followed by Kakamega and Kitale stations with 136.5 mm and 117.0 mm of rainfall respectively.

Harvesting of maize and beans has been completed over most parts of the Country and farmers are now preparing their farms for the next season.

In Northwestern/Eastern and South Rift Valley, pasture and forage condition is still poor but is expected to improve as the rains pick up.

2.2 WESTERN AND NYANZA REGION

Several stations in the region reported moderate to heavy rainfall during the dekad. Mean air temperature in the region generally dropped and ranged between 21.0 °C - 24.2 °C.

Cloud cover in the region was broken during the morning and afternoon hours throughout the dekad.

2.2.1 KAKAMEGA:

The station reported a cumulative rainfall of 136.5 mm against its Long-term dekad mean of 65.9 mm. Three (3) days with moderate to heavy rainfall were recorded during the dekad. Mean air temperature at the station was to 22.3°C.

During the coming dekad 11th – 20th September 2023, there is (31,41,28) % chance that Kakamega station shall receive below 43.3 mm of rainfall (below normal), between 43.3 – 72.1 mm (normal), above 72.1 mm of rainfall (above normal).

Land preparation for the October – November 2023 season is ongoing.

2.2.2 KISII:

The station reported 153.0 mm against its Long-term dekad mean of 61.5 mm. The station reported five (5) days with moderate to heavy rainfall during the dekad. Mean air temperature at the station dropped from 21.8 °C to 21.0 °C. Cloud cover was broken during both morning and afternoon hours throughout the whole dekad.

During the coming dekad 11th – 20th September 2023, there is (50,17,33) % chance that Kisii station shall receive below 46.4 mm of rainfall (below normal), between 46.4 – 77.7 mm (normal), above 77.7 mm of rainfall (above normal).

Land preparation for the October – November 2023 cropping season is ongoing.

2.3 RIFT VALLEY PROVINCE

The region reported increased rainfall compared to the previous dekad. Moderate to heavy rainfall was reported by few stations in the region during the dekad. Mean air temperature decreased in the region and ranged between 17.5 °C and 20.5°C. Cloud cover was mainly scattered in some parts and broken in other areas during both morning and afternoon hours.

2.3.1 KITALE:

The station generally received moderate to heavy rainfall during the dekad. A cumulative rainfall amount of 84.2 mm was received against its long-term dekad mean of 46.9 mm. The station reported four (4) rainy days with more than 5.0 mm of rainfall. Scattered cloud cover during morning which increased to broken during the afternoon was reported throughout the dekad. Mean air temperature decreased from 20.1 °C to 19.7 °C.

During the coming dekad 11th – 20th September 2023, there is (45,21,34) % chance that Kitale station shall receive below 28.4 mm of rainfall (below normal), between 28.4 – 47.4mm (normal), above 47.4 mm of rainfall (above normal).

Harvesting of maize and land preparation for next season is on-going.

2.3.2 KERICHO:

The station reported 74.6 mm of rainfall against its long-term dekad mean of 71.1 mm. The station reported five (6) days with moderate rainfall during the dekad. Mean air temperature at the station was 18.6°C. Scattered cloud cover during the morning and afternoon hours was reported at the station throughout the dekad.

During the coming next dekad 11th – 20th September 2023, there is (43,24,33) % chance that Kericho station shall receive below 37.8 mm of rainfall (below normal), between 37.8 – 63.0 mm (normal), above 63.0 mm of rainfall (above normal).

Land preparation for the October – November 2023 cropping season is ongoing

2.3.3 KABARAK:

The station reported a cumulative amount of 52.7 mm of rain against its long-term decadal mean of 34.0 mm. Mean air temperature dropped from 20.2°C in the previous dekad to 18,6 °C in the current dekad. Scattered cloud cover during the morning and afternoon hours was reported at the station throughout the dekad.

2.4 CENTRAL AND NAIROBI COUNTIES.

Most stations from the Central region reported an increase in the amount of rainfall received as compared to the previous dekad. Mean air temperatures slightly dropped in the region and ranged between 16.0 °C and 21.7 °C. Broken cloud cover during the morning and afternoon hours was observed in the region throughout the dekad.

2.4.1 NYERI:

The station reported 0.2 mm against its long-term decadal mean rainfall of 8.5 mm. Broken cloud cover during the morning and afternoon was observed at the station throughout the dekad. Mean air temperature increased from 19.1°C to 19.7 °C in the current dekad.

Land preparation for the October – November 2023 cropping season is ongoing.

2.4.2 THIKA:

The station reported 27.3 mm rainfall against its long-term decadal mean of 5.9 mm. Total pan evaporation was 39.8 mm down from 50.0

mm during the previous dekad. Broken cloud cover during the morning and afternoon hours was observed at the station throughout the dekad.

Most farmers are preparing their land for October – November (OND) 2023 rainfall season.

2.4.3 DAGORETTI

The station received 12.9 mm against its long-term decadal mean of 9.2 mm of rainfall. The mean air temperature increased from 19.0 °C to 19.8 °C in the current dekad. Broken cloud cover was observed at the station during the morning and afternoon hours throughout the dekad.

Most farmers are preparing their land for October – November (OND) 2023 rainfall season.

2.4.4 KABETE:

The station received 14.7 mm against its long-term decadal mean of 10.4 mm of rainfall. The mean air temperature at the station increased from 18.6 °C to 19.0°C in the current dekad. Broken cloud cover during the morning and afternoon hours was observed at the station throughout the dekad.

Most farmers are preparing their land for October – November (OND) 2023 rainfall season.

2.4.5 NYAHURURU:

The station received a total cumulative amount of 62.8 mm against its long-term decadal mean of 44.1 mm of rainfall. The station reported three (3) rainy days with moderate to heavy rainfall. Scattered cloud cover dominated the sky during the morning and afternoon throughout the entire dekad. The average mean air temperature at the station increased from 14.6 °C to 16.0 °C.

Maize has not attained full maturity in some parts though some farmers are preparing their land for October – November (OND) 2023 rainfall season.

2.5 EASTERN REGION:

Most stations in the region received less rainfall as compared to the previous dekad. Scattered cloud cover during the morning and broken afternoon hours was observed in the region throughout the dekad. Mean air temperatures increased and ranged between 20.5 °C and 23.7 °C.

2.5.1 MERU:

The station received 2.1 mm against its long-term dekadal mean rainfall of 5.7 mm. Mean air temperature increased from 19.5 °C to 22.2 °C. Scattered cloud cover was observed at the station during the morning and in the afternoon hours throughout the dekad. Total pan evaporation was 43.6 mm.

Farmers are preparing their land for October – November (OND) 2023 rainfall season.

2.5.2 EMBU:

The station received light 5.9 mm against its long-term dekadal mean rainfall of 8.3 mm. The average mean air temperature increased from 20.2 °C to 20.5°C in the current dekad. Broken cloud cover was observed at the station during the morning and afternoon hours throughout the dekad. Total pan evaporation was 33.4 mm.

Farmers are preparing their land for October – November (OND) 2023 rainfall season.

2.5.3 KATUMANI:

The station reported 5.8 mm of rainfall against its long-term dekadal mean of 1.8 mm of rainfall. Cloud cover was few during the morning increasing to scattered in the afternoon hours.

Mangoes (variety: apple) are at 100% appearance of the new leaves though the mango trees have been infested with aphids.

Oranges (Washington Navel) are at 100% flowering stage and in a fair state.

Farmers are preparing their land for October – November (OND) 2023 rainfall season.

2.6 COASTAL REGION:

Several stations in the region reported light to moderate rainfall with Lamu station leading the region with 25.1 mm of rainfall. The mean air temperature generally increased during the current dekad and ranged between 26.8°C and 27.0°C.

2.6.1 MTWAPA:

The station received 2.4 mm against its long-term dekadal mean of 20.2 mm of rainfall. Mean air temperature at the station was 23.9 °C, broken cloud cover was observed at the station during the morning and afternoon hours throughout the dekad.

Mangoes are at the maturity stage and in a fair state. Normal yield is expected for mangoes.

Farmers have finished harvesting and are preparing their land for October – November (OND) 2023 rainfall season.

2.6.1 MSABAHA:

The station received 2.2 mm against its long-term dekadal mean of 13.1 mm of rainfall. Mean air temperature at the station was 26.6 °C Scattered cloud cover was mainly observed during the morning and increased to broken in the afternoon hours throughout the dekad.

Farmers have finished harvesting and are preparing their land for October – November (OND) 2023 rainfall season.

2.7 NORTH EASTERN REGION:

Several stations in the region remained dry during the dekad. Broken and scattered cloud cover was observed in the region during the morning and in the afternoon hours throughout the dekad. Mean air temperature ranged between 28.6 °C and 31.5 °C.

DEKAD 25 - 2023 RAINFALL AND TEMPERATURE MAPS/ CHARTS.

TEMPERATURE (°C)

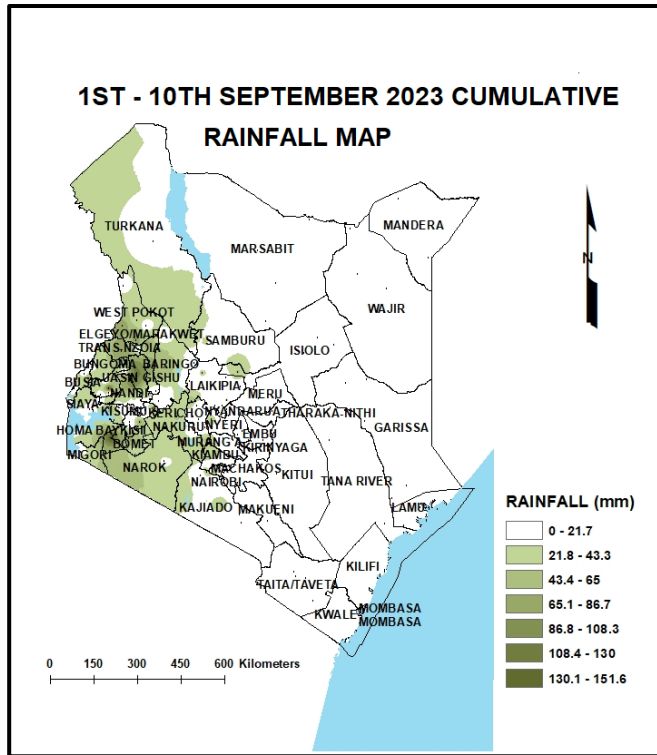


Fig: 3.1

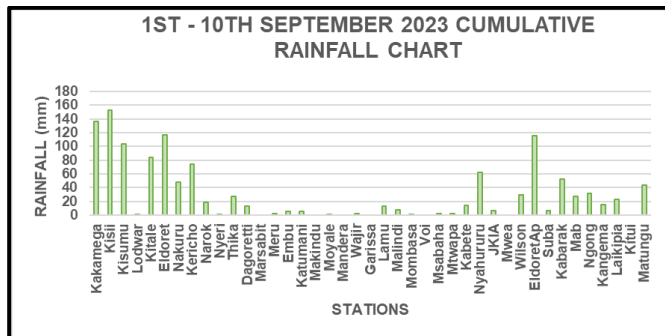


Fig: 3.2

Pasture and forage in the region remain poor but the situation is expected to improve once the rains start.

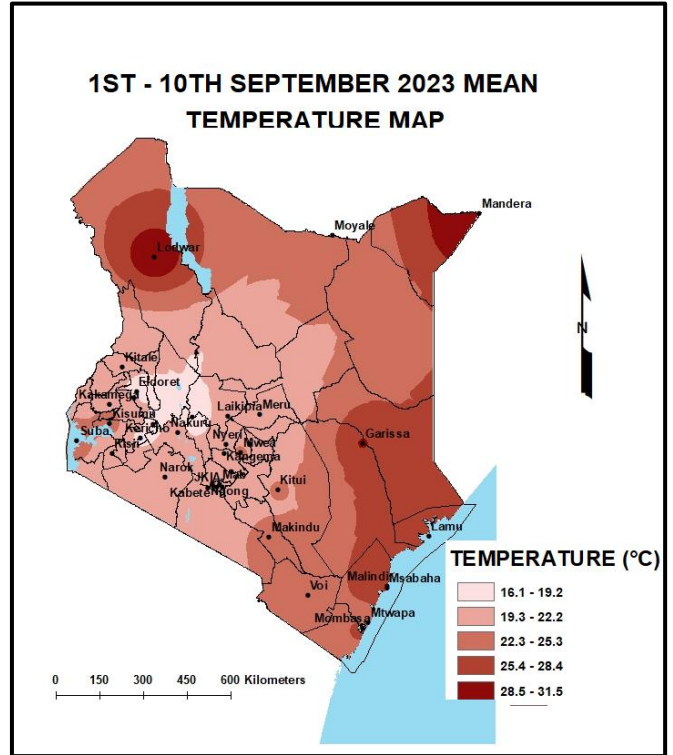


Fig: 3.3

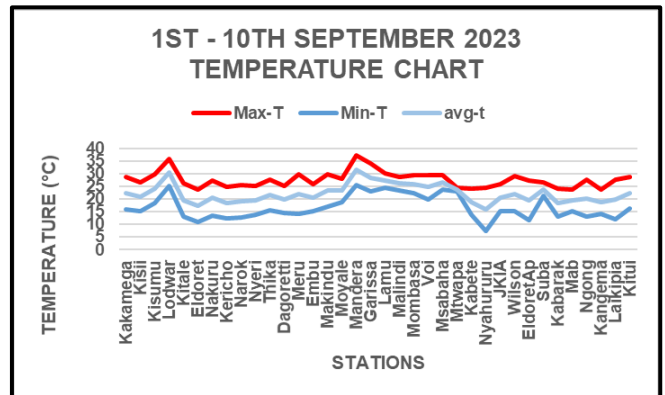


Fig: 3.4

4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 11TH – 20TH SEPTEMBER 2023.

During the next ten (10) days, several parts of Western, Nyanza, Rift valley and the Central region are expected to continue receiving moderate to heavy rainfall.

Farmers are advised to take advantage of the rains and prepare their land for the next season.

In Central region and Nairobi area, occasional light to moderate rain is likely to occur over a few places therefore, farmers are advised to take advantage of the expected weather conditions and prepare their land for the next season.

Eastern and North eastern regions are likely to have sunny intervals with cloudy nights during the next dekad. The expected weather conditions will be ideal for grazing, animal movement is expected to increase in search for pasture increasing the possibility of resource based conflicts.

South Eastern lowlands and Coastal regions are expected to experience occasional cloudiness with occasional showers over a few places during the next dekad. Farmers are advised to take advantage of the rains and prepare their land for the next season.

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



Mary Githinji

**FOR: DIRECTOR OF
METEOROLOGICAL SERVICES**