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# AGROMETEOROLOGICAL BULLETIN

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DEKAD 25 PERIOD: 11<sup>TH</sup> – 20<sup>TH</sup>  
SEPTEMBER, 2023.

## 1.0 HIGHLIGHTS

- During the period under review, only **few parts** of the country reported light to moderate rainfall.
- Several stations reported a decrease in the amount of rainfall received as compared to the previous dekad except for a few stations like Kericho in highland west, Nyeri and Dagoretti in the highland east and Voi, Mtwapa and Msabaha in the coastal region that recorded an increased amount of rainfall.
- Kakamega Meteorological station in Western region reported the highest amount of rainfall followed by Kisii and Suba Meteorological Stations (Figs; 3.1 & 3.2).
- Mean air temperature increased over several stations except a few places within the highland west, Nyanza and Western region which recorded a slight decrease in temperature. (Figs. 3.3 & 3.4).

- **Total pan evaporation readings increased over most stations** with cloud cover limited to few/scattered over most stations.
- During the next ten (10) days, several parts of the Country are expected to receive occasional light to moderate rains over a few places in western, Central and Coastal areas of the country.

## 2.0 WEATHER AND CROP REVIEW FOR THE PERIOD: 11<sup>TH</sup> – 20<sup>TH</sup> SEPTEMBER, 2023.

### 2.1 SUMMARY

During the current period, only few parts of the country reported light to moderate rainfall. All stations except the ones along the Coastal strip reported reduced rainfall compared to the previous dekad. Kakamega Meteorological station in the Western reported the highest amount of rainfall (134.7mm) and was followed by Kisii station with (97.8 mm).

In Western, Nyanza, and several parts of Rift Valley, maize is at full ripeness stage and farmers are already harvesting their crop with normal yield expected. In Central,

Eastern, and Coastal regions maize have been harvested by most farmers. Some farmers have begun land preparation as they await for next season's planting.

In Northwestern/Eastern and south rift valley, pasture and forage condition is slowly getting depleted due to inadequate rainfall and overgrazing.

## **2.2 WESTERN AND NYANZA REGION**

All stations from the region reported heavy rainfall as compared to their long-term decadal means. Light rainfall was reported by Wath Ong'er Station in Migori County. Mean air temperature decreased in the region and ranged between 20.8°C and 24.3°C. Scattered cloud cover during the morning and afternoon hours was observed over most stations in the region during the dekad.

### **2.2.1 KAKAMEGA:**

The station reported a cumulative rainfall amount of 134.7 mm against its Long-term decadal mean of 57.2 mm. The station had a total eight (8) consecutive rainy days with some recording moderate to very heavy rainfall. Scattered cloud cover during the morning and afternoon hours was reported at the station throughout the entire dekad. The average mean air temperature at the station reduced from 22.2 to 22.0°C.

Land preparation is ongoing for second season's harvesting

### **2.2.2 KISII:**

The station reported a cumulative rainfall amount of 97.8mm against its Long-term decadal mean of 61.9 mm. The station reported three (3) consecutive rainy days and six (6) days recording more than 5.0 mm (moderate to heavy rainfall). The average mean air temperature at the station

decreased from 21.8 °C to 20.7°C. Scattered cloud cover during the morning and afternoon hours was observed at the station throughout the dekad.

There is 100% full ripeness of maize and it has started drying and approaching harvesting time.

## **2.3 RIFT VALLEY PROVINCE**

The region reported decreased rainfall compared to the previous dekad. Moderate to heavy rainfall was reported by several stations in the region during the dekad. Mean air temperature increased in the region and ranged between 18.4°C and 20.5°C. Cloud cover was mainly scattered during the morning and afternoon hours throughout the dekad.

### **2.3.1 KITALE:**

The station generally received light rainfall during the dekad. A cumulative rainfall amount of 24.1 mm was received against its long-term decadal mean of 37.9 mm. The station reported one (1) rainy day of which it received more than 5.0 mm of rainfall. Scattered cloud cover during morning and afternoon hours throughout the dekad. Mean air temperature increased from 20.1 °C to 20.5°C. Maize is at harvesting stage and in good state. Rainfall received during the of the dekad is hindering harvesting of the maize crop.

### **2.3.2 KERICHO:**

The station reported 80.5 mm of rainfall against its long-term decadal mean of 50.4 mm. The station maintained Mean air temperature increased from 18.4 °C to 18.6°C. Broken cloud cover during the morning and afternoon hours throughout the dekad. Farmers are planning for the second seasonal planting.

### **2.3.3 KABARAK:**

The station reported a cumulative amount of 24.8 mm of rain against its long-term dekadal mean of 34.1mm. Mean air temperature increased from 20.2°C in the previous dekad to 19.5°C in the current dekad. Scattered cloud cover during the morning and afternoon hours.

## **2.4 CENTRAL AND NAIROBI PROVINCES.**

Most stations from the Central region reported a decrease in the amount of rainfall reported as compared to the previous dekad. Mean air temperatures slightly went up and ranged between 15.6 °C and 22.7 °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 light rainfall and received a cumulative amount of 3.0mm against its long-term dekadal mean rainfall of 8.3 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 20.9

°C in the current dekad. Farmers continue harvesting their crops with normal yield expected.

### **2.4.2 THIKA:**

The station reported 13.4 mm rainfall against its long-term dekadal mean of 2.9 mm. Total pan evaporation was 49.4 mm. Broken cloud cover was observed at the station during the morning and afternoon hours throughout the

dekad. Maize harvesting and land preparation is almost complete in most areas.

### **2.4.3 DAGORETTI**

The station received 19 mm against its long-term dekadal mean of 8.4 mm of rainfall. The mean air temperature increased from 19.0 °C to 20.4 °C in the current dekad. Broken cloud cover was observed at the station during the morning and afternoon hours.

### **2.4.4 KABETE:**

The station received 65.5 mm against its long-term dekadal mean of 8.7 mm of rainfall. The mean air temperature at the station increased from 18.6 °C to 19.7°C in the current dekad. Broken cloud cover during the morning and afternoon hours was observed at the station throughout the dekad.

Coffee variety *Ruiru hybrid 11* is at 70% berry soft and the crop state is fair which corresponds to normal growth and 20% ripeness. 30% of the crop has been affected by leaf rust and Coffee Berry Disease (CBD) and pests.

### **2.4.5 NYAHURURU:**

The station received a total cumulative amount of 44.8 mm against its long-term dekadal mean of 20.1 mm of rainfall. The station reported two (2) rainy days and two days (2) recording more than 5.0 mm (moderate rainfall). Scattered cloud cover dominated the sky during the morning and afternoon throughout the dekad. The average mean air temperature at the station increased from 14.6 °C to 15.6 °C.

## **2.5 EASTERN REGION:**

Most stations in the region received more rainfall as compared to the previous dekad. Mean air temperatures increased and ranged between 20.9 °C and 23.9 °C. Scattered cloud cover during the morning and afternoon

hours was observed in the region throughout the dekad.

### **2.5.1 MERU:**

The station received a cumulative rainfall of 6.3 mm against its a long-term dekadal mean rainfall of 3.5 mm. Mean air temperature increased from 19.5°C to 20.9 °C. Scattered cloud cover was observed at the station during the morning and in the afternoon hours throughout the dekad. Total pan evaporation was 43.3 mm.

### **2.5.2 EMBU:**

The station received light rainfall of 1.8 mm against its long-term dekadal mean rainfall of 9.9 mm. The average mean air temperature increased from 20.2 °C to 21.6°C in the current dekad. Broken cloud cover was observed at the station during the morning and afternoon hours throughout the dekad.

Farm preparation continues, as farmers wait for seasonal rainfall to start.

### **2.5.3 KATUMANI:**

The station reported nil rainfall against its long-term dekadal mean of 6.6 mm of rainfall against its long-term decadal mean of 1.3 mm. Scattered cloud cover was observed at the station during the morning and afternoon hours throughout the dekad.

First weeding of mangoes (variety apple) is ongoing.

Oranges (Washington Navel) have been harvested.

## **2.6 COASTAL REGION:**

All stations in the region reported light to moderate rainfall with Mtwapa station leading the region with 7.4 mm of rainfall. The mean air temperature generally increased during the dekad and ranged between 25.1 °C and 27.5°C.

### **2.6.1 MTWAPA:**

The station received a total cumulative amount of 7.4mm against its long-term dekadal mean of 20.3mm of rainfall. The station reported three (3) consecutive wet days during the entire dekad. Mean air temperature increased from 26.3°C to 26.7°C. Scattered cloud cover was observed at the station during the morning and afternoon hours throughout the dekad.

Mangoes are dormant and maize crops are fully harvested from the farm.

### **2.6.1 MSABAHA:**

The station received a total cumulative amount of 5.4 mm against its long-term dekadal mean of 17.3 mm of rainfall. scattered cloud cover was mainly observed during the morning and afternoon hours throughout the dekad.

## **2.7 NORTH EASTERN REGION:**

Several stations in the region remained dry during the dekad. Scattered cloud cover was observed in the region during the morning and in the afternoon hours throughout the dekad. Mean air temperature ranged between 21.2 °C and 31.2 °C.

Pasture and forage in the region are slowly getting depleted due to overgrazing and water levels in most water/earth pans in the region also decreasing and could dry up soon.

## **DEKAD 26-2023 RAINFALL AND TEMPERATURE MAPS/ CHARTS.**

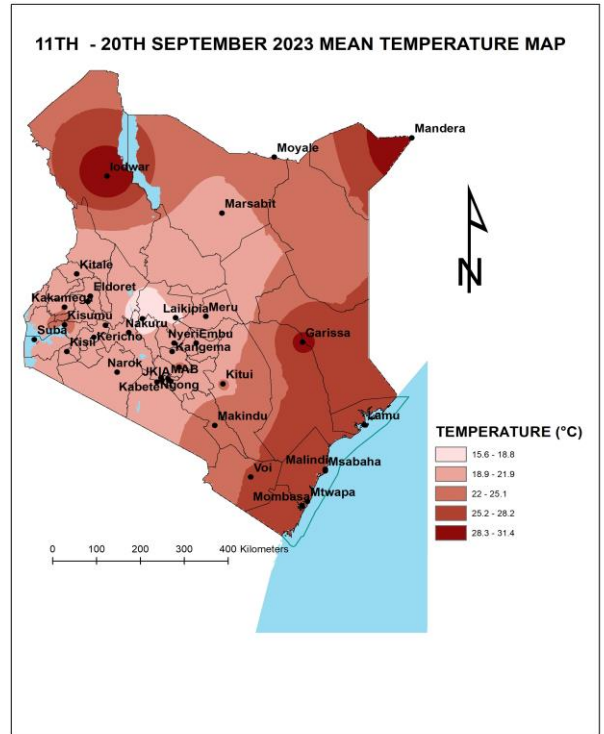
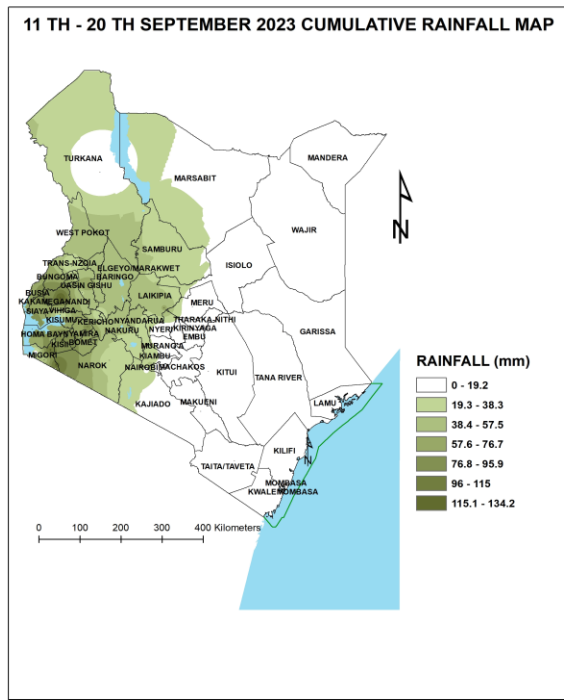


Fig: 3.1

Fig 3.3

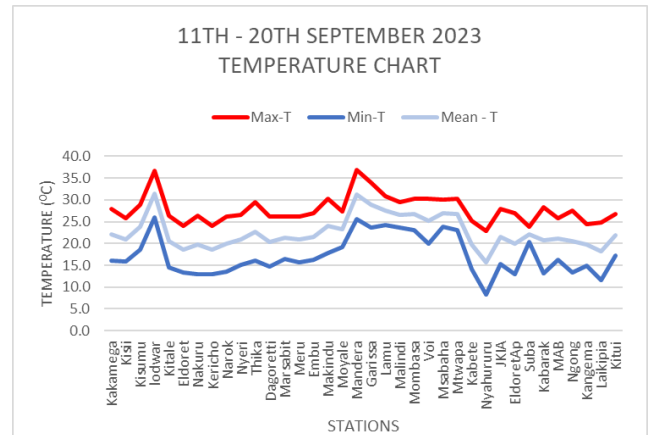
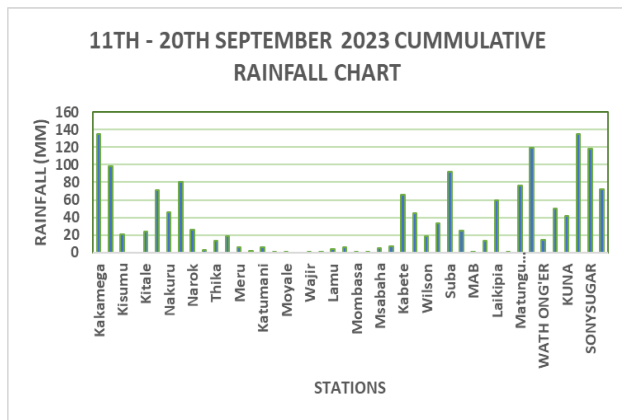


Fig: 3.2

Fig: 3.4

#### **4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 21<sup>ST</sup> – 30<sup>TH</sup> SEPTEMBER 2023.**

During the next ten (10) days, most parts of the Country are expected to receive occasional light to moderate rains over a several places in western and high ground areas of the country.

Over Western and Nyanza regions, sunny interval with occasional light to moderate rain is likely to occur over a few places therefore, farmers who are still carrying out post-harvest drying of cereals are advised to take advantage of sunny periods within the dekad in order to avoid postharvest losses.

In the Central region, Nairobi, and Eastern parts of the country, sunny interval with occasional light to moderate rain is likely to occur over a few places therefore, farmers who are still harvesting, carrying out post-harvest drying of cereals and those who are preparing for the second season planting are advised to take advantage of sunny periods within the dekad.

North Western/Eastern is likely to have sunny intervals with cloudy nights during the next dekad. However, morning rains as well as afternoon and night showers and thunderstorms are expected over few places during the first half of the forecast period. The expected weather conditions will be ideal for grazing, animal movement is expected to increase as they search for pasture hence increasing the possibility of conflicts.

South Eastern lowlands and Coastal regions are expected to experience occasional cloudiness with occasional showers over a few places during the next dekad.

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



Mary Githinji

**FOR:                      DIRECTOR                      OF  
METEOROLOGICAL SERVICES**