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## AGROMETEOROLOGICAL BULLETIN

**DEKAD 10**  
**PERIOD: 1s**  
**1<sup>ST</sup> – 10<sup>TH</sup> APRIL, 2021**

### HIGHLIGHTS

- Widespread Rainfall expected to continue over several counties throughout the Country.
- Expected water logging and flooding due to high values of Precipitation to potential evapotranspiration ratio over Western, some parts of Rift Valley and Central Kenya.
- Most farmers have already planted their farms and the crops are at emergence stage and in good state.

### RAINFALL PERFORMANCE

Increased and widespread rainfall activities were recorded over several places throughout the Country during the current dekad (1<sup>st</sup> – 10<sup>th</sup> April, 2021). Rainfall of moderate to high intensity was recorded in several stations especially within Western and Nyanza where also the amounts reported were higher than in the previous dekad. The highest fall recorded during the period under review occurred in Eastern region where the total amount for the dekad was 211.3 mm of rainfall. Nairobi and central region followed closely with several stations registering over 100 mm of rainfall. During the dekad, several stations

reported six/seven rainy days (> 5.0 mm of rainfall) recorded followed by Nairobi area where all stations recorded at least five rainy days.

### 2.0 WEATHER REVIEW FOR THE PERIOD 1<sup>ST</sup> - 10<sup>TH</sup> APRIL, 2021.

#### 2.1 NYANZA AND WESTERN REGIONS

Kakamega station received 148.6 mm of rainfall followed by Kisumu with a gauge reading of 113.3 mm. Kisii, Matungu and Suba stations reported 101.2 mm, 82.8 and 82.6 mm of rainfall.

Kisii and Kakamega stations reported seven rainy days during the dekad while Matungu and Suba stations reported only three rainy days during the same period.

High values of Precipitation to potential evapotranspiration (**P/PET**) ratio (> 1.4) were observed in the region during the dekad, depicting high soil moisture levels during the period.

Mean air temperature at Kakamega station was 22.0 °C. At Kisii, the mean air temperature was 20.6 °C.

#### 2.2 RIFT VALLEY REGION.

Kericho station reported 145.2 mm of rainfall followed by Kitale with a gauge reading of 83.8 mm. Nakuru, and

Kabarak stations reported 68.3 mm and 58.2 mm while Kapsoya, Eldoret airport and Narok stations measured 32.1 mm, 28.4 mm and 17.6 mm of rainfall during the dekad.

Kericho station reported a total of 7 rainy days followed by Kabarak with five rainy days. Nakuru, Eldoret and Kapsoya stations reported three rainy days during the period.

High values of Precipitation to potential evapotranspiration (**P/PET**) ratio (1.2 – 1.4) were observed over some parts of the region depicting high soil moisture levels, flooding and water logging conditions over some areas in the region.

At both Kitale and Nakuru stations, the mean air temperature was 20.3 °C while at Narok and Kericho, the mean air temperature was 19.7 °C, and 18.1 °C.

### **2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.**

Thika station reported 191.1 mm of rainfall followed by Kabete with 144.9 mm. Dagoretti, Kangema and Ngong stations received 134.0 mm, 90.5 mm and 83.0 mm respectively. At Nyeri and Nyahururu, the gauge readings were 17.2 and 15.7 mm of rainfall.

Thika station reported a total of six rainy days while at Dagoretti and Kabete stations only five rainy days were reported. Nyeri and Nyahururu reported a single rainy day during the same period.

High values of Precipitation to potential evapotranspiration (**P/PET**) ratio (1.2 – 1.4) were observed over some parts of the region depicting high soil moisture levels, flooding and water logging conditions

Mean air temperatures at Kangema and Dagoretti was 20.4 °C and over Kabete 19.9 °C.

### **2.4 EASTERN REGION.**

Kitui station reported 211.3 mm of rainfall with a total of 6 rainy days followed by Embu with 87.2 mm with a

total of 5 rainy days. Mwea, Makindu and Meru reported 69.0 mm, 61.3 mm and 46.3 mm of rainfall. Mwea and Meru reported three rainy days while Makindu and Katumani reported 2 rainy days each. Moyale and Marsabit stations reported 11.5 mm and 5.1 mm of rainfall during the dekad.

Low values of Precipitation to potential evapotranspiration (**P/PET**) ratio (0.4 – 0.6) predominant over most of the region except over Central Eastern regions.

Mwea reported a mean air temperature of 24.8°C, while at Meru and Embu mean air temperatures were 20.7 and 20.3 °C. At Marsabit, mean air temperature was 23.2 °C.

### **2.5 NORTH EASTERN REGION**

In the North Eastern region, Wajir station reported 12.1 mm and was followed with Mandera with 11.5 mm of rainfall. At Garissa the amount of rain reported was 10.4 mm.

Mandera and Wajir stations both reported a single rainy day during the entire dekad.

Normal values of Precipitation to potential evapotranspiration (**P/PET**) ratio (> 0.8) observed over most parts of the region.

Mandera and Garissa stations reported a Mean air temperatures of 31.6 and 31.3°C

### **2.6 COASTAL REGION.**

At the coastal region, Msabaha station reported 23.7 mm with two rainy days and was followed by Mtwapa with a gauge reading of 2.0 mm of rainfall.

Low values of Precipitation to potential evapotranspiration (**P/PET**) ratio (0.4 – 0.6) was observed over most parts of the coastal region during the current dekad.

At Lamu, mean air temperature was 30.9°C and at Mombasa and Malindi

the mean air temperature was and 29.5 °C and 29.0 °C

### 3.0 CROP REVIEW FOR THE PERIOD 1<sup>ST</sup> – 10<sup>TH</sup> APRIL, 2021.

#### 3.1 Kakamega

Both maize and Beans were emergence stage and the crop state is good which corresponds to above normal. Some farmers who planted early have started weeding their farms.

#### 3.2 Kisii

Both maize and Beans were emergence stage and the crop state is good which corresponds to above normal condition. Some farmers who planted early have started weeding their farms.

#### 3.3 Kitale

Both maize and Beans were emergence stage and the crop state is good which corresponds to above normal condition. Some farmers are still planting their farms.

#### 3.4 Thika

Planting of maize and beans are ongoing in several farms because of the current rains.

#### 3.5 Meru

Maize and beans are at emergence stage and state corresponds to normal growth.

#### 3.6 Embu

Maize and beans are at emergence stage and state corresponds to normal growth.

#### 3.7 Nyeri

Maize and beans are at emergence stage and state corresponds to normal growth.

#### 3.8 Nyahururu

planting

#### 3.9 Katumani

Maize (**Duma 43**) and beans (**KAT B1**) are at emergence stage and state corresponds to normal growth.

#### 3.10 Msabaha

Planting of maize and beans are ongoing in several farms because of the current rains.

#### 3.11 Mtwapa

Maize and beans are at emergence stage and the state is fair which corresponds to normal growth. Some farmers are still planting their farms.

### 4.0 ANALYSIS OF RAINFALL, PPET AND TEMPERATURE CONDITIONS.

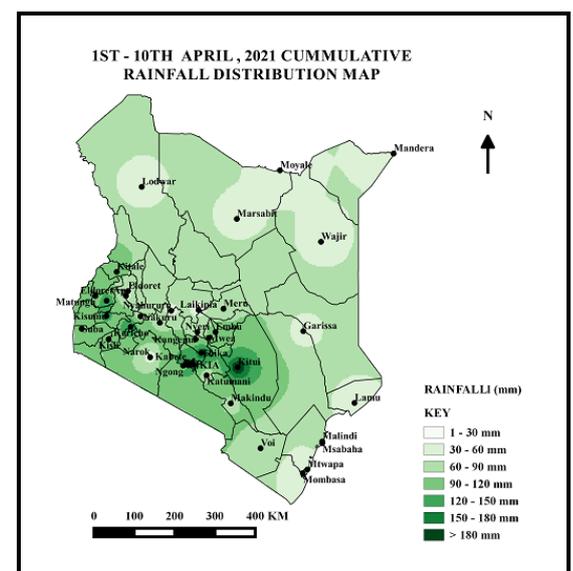


Figure 4.1: Actual rainfall totals for dekad 10, 2021



*The expected weather conditions are expected to help in improving Pasture regeneration and some subsistence crops in the region.*

### **5.3 Rift Valley region - Kericho, Bomet, Uasin-Gishu**

Occasional morning rains are expected over a few places throughout the forecast period. Afternoon showers are likely to occur over several places during the first half of the forecast period and over a few places thereafter. Evening showers are expected to occur over several places during the first half of the forecast period and over a few places thereafter.

*The expected weather conditions are ideal for the crops which are at emergence stages over several farms within the region.*

*High values of Precipitation to potential evapotranspiration ratio depicts high soil moisture levels, flooding and water logging conditions which may be detrimental to crops.*

### **5.4 Central and Nairobi area -Meru, Murang'a, Kiambu, Nyeri, Nairobi, Embu, Nyandarua, Tharaka and Kirinyaga)**

Occasional morning rains are expected over a few places throughout the forecast period. Afternoon showers are likely to occur over several places during the first half of the forecast period and over a few places thereafter. Evening showers are expected to occur over several places during the first half of the forecast period and over a few places thereafter.

*The expected weather conditions would be favorable to the food crops which are at emergence stage. It would also enable farmers who have not yet planted to start planting.*

### **5.5 North-Eastern region - Marsabit, Mandera, Wajir, Garissa and Isiolo**

Morning rains as well as occasional afternoon/evening showers are likely to occur over a few places throughout the forecast period.

*The expected weather conditions are likely to accelerate pasture regeneration in the region.*

### **5.6 South-Eastern lowlands - Taita Taveta, Makueni, Machakos and Kitui**

Occasional morning rains expected over a few places during the first half of the forecast period. The rest of the mornings are likely to be mainly sunny. Afternoon/evening showers are likely to occur over a few places throughout the forecast period.

*The expected weather conditions are likely to accelerate pasture regeneration in the region and also be favorable to the food crops that have been planted in the region*

### **5.7 Coastal strip region- Mombasa, Malindi, Kilifi, Lamu, Kwale**

Occasional morning and afternoon showers are expected over few places during the entire forecast period.

*The expected weather conditions would be favorable to the food crops which are at emergence stage. It would also enable farmers who have not yet planted to start planting.*

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For clarification, feedback or further guidance, please Contact:

**The Director,  
Kenya Meteorological Department,**