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AGROMETEOROLOGICAL BULLETIN

DEKAD 11

PERIOD: 11TH – 20TH APRIL 2021

HIGHLIGHTS

- Reduced amount of recorded rainfall reported over several places throughout the Country.
- Moyale station in Eastern region reported ten consecutive wet days as Lodwar remained dry during the entire period.
- High values of Precipitation to potential evapotranspiration ratio (P/PET) maintained over Western and Nyanza region.
- Maize over several places was at emergence stage and in good state. Beans have already attained budding /flowering stage especially over western and Nyanza areas.

RAINFALL PERFORMANCE

Reduced rainfall amounts reported over several places throughout the Country during the current dekad (11th – 20th April 2021). Rainfall of low to moderate intensity recorded within Western, Central and Eastern region where also the amounts reported were less than in the previous dekad. The highest fall occurred in Western and Central regions where the total amount for the dekad was above 100 mm of rainfall. Nyanza, Eastern and Rift Valley region followed

with few stations registering 50 mm of rainfall and above.

The 11th dekad had seven stations reporting four to five rainy days (days with reported rainfall greater than 5.0 mm). The maximum consecutive wet days (days with reported rainfall greater than 1.0 mm) reported during the dekad was ten and the maximum consecutive dry days recorded during the dekad was ten.

2.0 WEATHER REVIEW FOR THE PERIOD 11TH – 20TH APRIL 2021.

2.1 NYANZA AND WESTERN REGIONS

Matungu station received 129.7 mm of rainfall followed by Suba with a gauge reading of 85.5 mm. Kisii, Kakamega and Kisumu stations reported 61.7 mm, 57.5 and 50.0 mm of rainfall.

Matungu and Suba stations reported five and four rainy days and at Kisii and Kakamega stations, only three and two rainy days were reported during the same period.

High values of Precipitation to potential evapotranspiration (P/PET) ratio (> 1.4) observed in the region during the dekad, depicting high soil moisture levels which is not ideal for normal crop growth and development.

Mean air temperature at Kakamega station dropped to 21.2 °C. and at Kisii, the mean air temperature was 20.9 °C.

2.2 RIFT VALLEY REGION.

Kericho station reported 59.2 mm of rainfall followed by Kitale with a gauge reading of 12 mm. The rest of the stations reported 8.0 mm and below during the dekad.

Kericho station reported four rainy days as Kitale registered only a single rainy day during the same period.

Normal values of Precipitation to potential evapotranspiration (**P/PET**) ratio (0.8 – 1.0) were observed over some parts of the region depicting normal soil moisture levels ideal for crop growth and development.

The mean air temperature at Kapsoya was 19.1 °C and at Kericho 18.5 °C. Kabarak and Eldoret airport reported mean air temperatures of 19.3 °C and 18.7 °C.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

Kangema station reported 115.6 mm of rainfall followed by Dagoretti with 52.2 mm. Kabete and Thika stations received 38.4 mm, and 28.2 mm respectively. At Nyeri and Nyahururu, the gauge readings were 21.6 mm and 6.8 mm of rainfall.

Kangema station reported 5 rainy days and at Dagoretti and Kabete stations only 2 and 3 rainy days were reported. Nyeri reported a single rainy day during the same period.

Normal values of Precipitation to potential evapotranspiration (**P/PET**) ratio (0.8 – 1.0) were observed over some parts of the region depicting normal soil moisture levels ideal for crop growth and development.

Mean air temperatures at Dagoretti and Kabete was 19.9 °C and 19.6 °C and at Nyeri and Nyahururu 20.2 °C and 15.9 °C

2.4 EASTERN REGION.

Embu station reported 60.5 mm of rainfall with a total number of 5 rainy days Marsabit reported 55.7 mm with 3 rainy days. Moyale, Mwea and Meru stations received 53.4 mm, 40.8 mm and 18.1mm with two rainy days each. Makindu and Katumani reported 4.1 mm and 3.0 mm of rainfall during the dekad.

Low values of Precipitation to potential evapotranspiration (**P/PET**) ratio (< 0.8) predominant over most of the region except over Central Eastern regions.

Mwea reported a mean air temperature of 24.0°C, while at Meru and Embu stations mean air temperature was 20.3 and 20.0 °C. Marsabit, reported 23.2 °C.

2.5 NORTH EASTERN REGION

In the North Eastern region, Mandera reported 58.8 mm with 2 rainy days followed by Wajir with 42.3 mm of rainfall and 4 rainy days. Garissa station reported 9.7 mm of rainfall.

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 31.2 and 30.8°C

2.6 COASTAL REGION.

At the coastal region, Mombasa station reported 45.9 mm with a single rainy day and followed closely by Malindi with a gauge reading of 44.4 mm of rainfall and two rainy days. Msabaha and Mtwapa reported 39.2 mm and 28.4mm with 2 rainy days each.

Normal values of Precipitation to potential evapotranspiration (**P/PET**) ratio (0.8 – 1.0) were observed over some parts of the region depicting normal soil moisture levels ideal for crop growth and development.

Mean air temperature at Lamu dropped to 30.1°C and at Mombasa and

Malindi the mean air temperature was and 29.0 °C and 28.2 °C

3.0 CROP REVIEW FOR THE PERIOD 11TH – 20TH APRIL 2021.

3.1 Kakamega

Maize is at emergence stage while beans are at budding stage and the state of both crops is generally good which corresponds to above normal condition. All farmers have completed weeding their farms.

3.2 Kisii

Maize was at emergence stage and beans at budding stage and the state of both crops was generally good which corresponds to above normal condition. All farmers have completed weeding their farms.

3.3 Kitale

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

3.4 Thika

Both maize and Beans were emergence stage and the crop state is fair which corresponds to normal growth.

3.5 Meru

Both maize and Beans were emergence stage and the crop state is fair which corresponds to normal growth.

3.6 Embu

Both maize and Beans were emergence stage and the crop state was fair which corresponds to normal growth.

3.7 Nyeri

Both maize and Beans were emergence stage and the crop state was fair which corresponds to normal growth.

3.8 Nyahururu

Planting of maize and beans has not taken place because of delayed onset of rains.

3.9 Katumani

Maize (**Duma 43**) and beans (**KAT B1**) are at emergence stage and the crop state is fair which corresponds to normal growth. Weeding is ongoing in most farms.

3.10 Msabaha

Both maize and Beans were emergence stage and the crop state is fair which corresponds to normal growth.

3.11 Mtwapa

Farmers have finished planting, both maize and beans are at emergence stage, and the crop state is fair which corresponds to normal growth.

4.0 ANALYSIS OF RAINFALL, PPET AND TEMPERATURE CONDITIONS.

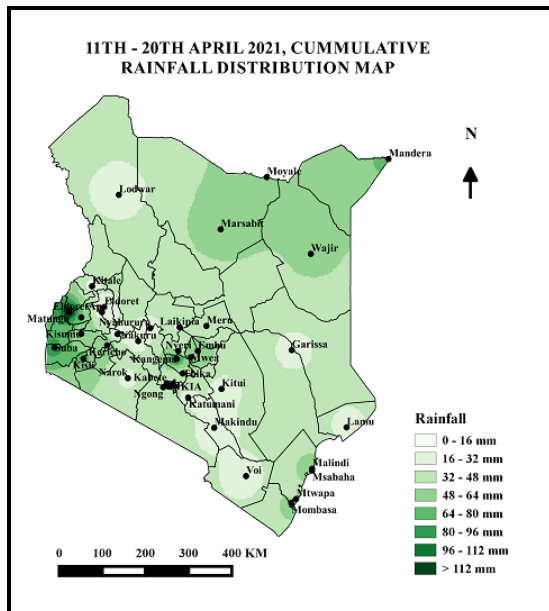


Figure 4.1: Actual rainfall totals for dekad 10, 2021

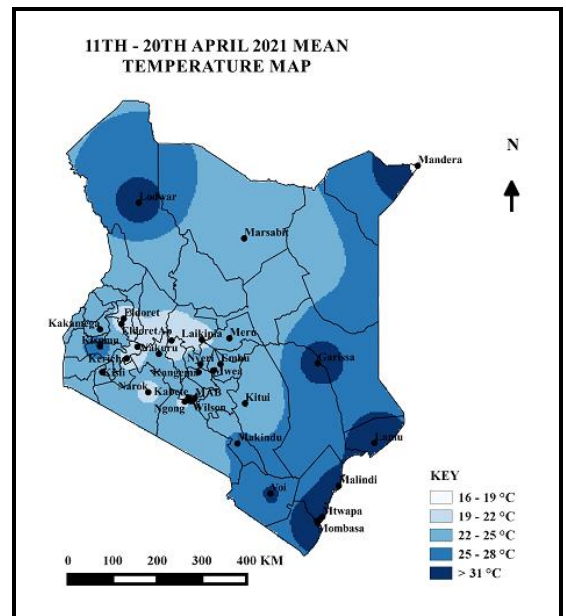


Figure 4.4: Dekadal Mean temperature distribution for dekad 30, 2020

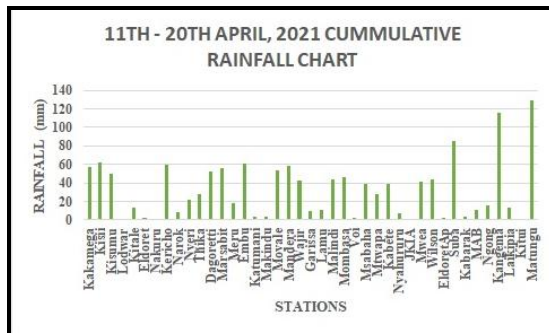


Figure 4.2: Dekadal rainfall totals in (mm)

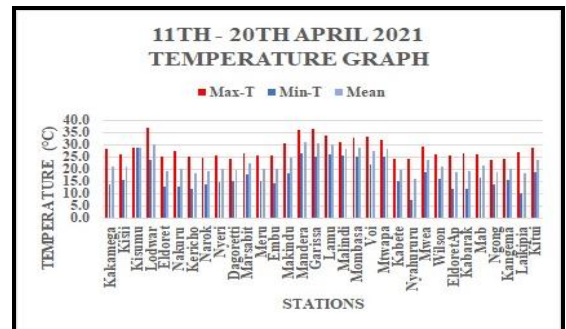


Figure 4.5 Dekadal temperatures in (°C).

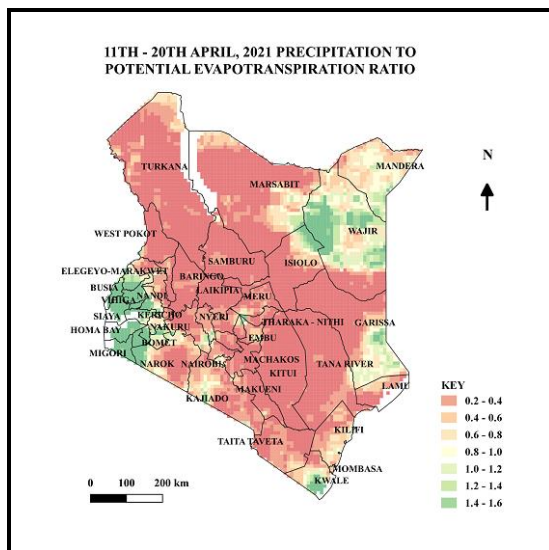


Figure 4.3: Dekadal PPET values

5.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT 10 DAYS; 21ST – 30TH APRIL, 2020.

5.1 Nyanza and Western region- Nyamira, Kisii Migori, Homa Bay, Vihiga and Busia

Mornings to be mainly sunny with occasional rains expected over few places. Afternoon showers and thunderstorms are likely to occur over several places during the entire forecast period. Evening showers expected over a few places throughout the forecast period.

The expected weather condition is ideal for both crops, which are at emergence and budding stages over several farms in 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.

5.2 Counties within North Western Kenya -Turkana, West Pokot and Samburu

Mornings expected to be mainly sunny with occasional rains. Afternoon/evening showers are likely to occur over a few places entire forecast period.

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

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

Sunny conditions expected during the day with occasional afternoon showers, over few places during the entire forecast period.

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

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

Occasional morning rains expected over few places throughout the forecast period. Afternoon/evening showers are likely to occur 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.

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

Mornings expected to be sunny. Afternoon/evening showers are likely to occur over a few places throughout the forecast period.

The expected weather condition is ideal for pasture regeneration in the region and favorable to the food crops in the region

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

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

The expected weather conditions expected to be ideal for both maize and beans, which are at emergence stage

For clarification, feedback or further guidance, please Contact:

**The Director,
Kenya Meteorological Department,**