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AGROMETEOROLOGICAL BULLETIN

DEKAD 31
PERIOD: 1ST-10TH NOVEMBER 2022

1.0 HIGHLIGHTS

- Most stations within the Country reported enhanced rainfall activities compared to the previous dekad (21st – 31st October 2022).
- Moderate cloud cover was predominant during the dekad with mean air temperatures dropping slightly over several parts of the country.
- During the next ten days, (10th – 20th November 2022) Several Counties in western Kenya, South Rift valley, central and North West regions are likely to receive moderate to heavy rainfall as the rest of the Country receives light to moderate rainfall during the same period.

2.0 WEATHER AND CROP REVIEW FOR THE PERIOD: 1ST – 10TH NOVEMBER 2022

Most regions within the Country reported enhanced rainfall activities compared to the previous dekad (21st – 31st October 2022). Embu Meteorological station - Eastern Region reported the highest amount of rainfall (figure 3.2) followed by Kangema and Meru stations in Murang'a and Meru Counties. Cloud

cover was moderate over several parts of the country during the dekad. Mean air temperature slightly dropped over several stations though few areas maintained or experienced a slight increase in mean air temperature

2.1 WESTERN AND NYANZA REGIONS

Most stations from within the region recorded more rainfall compared to the previous dekad. The highest amount of rainfall reported was by St. Paul Amukura station in Busia County followed by Elwanikha and Busia ATC. Elwanikha station reported six rainy days (> 5.0 mm of rainfall) during the period. In Kisumu County, Maseno station reported the highest amount of rainfall with a total of five days with moderate rainfall during the dekad. In Kakamega county, moderate rainfall was reported at Ikolomani station and had received at least three days with rainfall greater than 5.0 mm.

Cloud cover was mainly scattered during morning hours increasing to broken state during the afternoon hours. In Kakamega and Busia Counties, mean air temperature ranged between 22.1°C - 23.7 °C. In Siaya and Kisumu Counties, the mean air temperature ranged between 22.6°C - 23.9 °C during the period under review. At Kisii total pan evaporation during the dekad was 78.4 mm.

Maize in Kisii was at past flowering stage and forming grains while beans have started forming pods. Both crops are in a fair state which corresponds to normal growth. Normal yield expected for both crops.

In Kakamega, maize is at flowering stage and beans have already been harvested. Normal yield was obtained for beans and the same is expected for maize.

2.2 RIFT VALLEY REGION.

Most stations in the region reported enhanced rainfall. Nyabangi station in Kericho County reported the highest amount with five rainy days during that period. Kericho station followed in amount and had four rainy days. In Bomet county, Ndoinet, Kaplong and Ndenai stations reported three days of moderate rainfall and at Bartolimo station in Baringo county, only two rainy days were reported during the dekad. Isara station in Kajiado county reported two days with moderate rainfall while the rest of the stations – PJ Flora, Mashuru DC Campsite, Olkirimatian health center and Enkorika reported a single rainy day during the whole dekad. Total pan evaporation at Kitale was 31.8 mm and 22.8 mm at Kericho station. Cloud cover in the region was mainly scattered during morning hours and increased to broken state in the afternoon and evening hours. Mean air temperature range in Kajiado was 20.3 – 23.6 °C while in Bomet and Kericho Counties 16.1 – 23.6 °C

Maize in Kericho had reached tasseling stage while beans were at maturity stage. Both crops are in a fair state which corresponds to normal growth and therefore normal yield is expected for both crops.

Most farmers have completed harvesting maize at Kitale, though the current rainy and cloudy conditions are delaying drying of maize.

Over the pastoral areas especially in the south rift, the prevailing rainy

conditions have brought some reprieve to these areas because of pasture and forage regeneration and improving the status of water resources in these areas. Many animals both Domestic and wildlife which have been dying due to lack of pasture and Water are expected to survive as the rain season picks up.

2.3 CENTRAL KENYA HIGHLANDS AND NAIROBI AREA REGION.

Central region received enhanced rainfall during the current dekad (1st – 10th November 2022). Gakanga and Munyu stations in Nyeri County reported the highest amount of rainfall with at least five and three rainy days. In Nyandarua and Laikipia Counties, KFS Gita and Ngobit Stations reported the highest amount of rainfall with four rainy days each. Light rainfall (less than 5.0 mm) was reported at Kimanjo and Survey stations in Laikipia. Magumu, Ol Kalou and Wanjohi stations in Nyandarua county reported dry conditions.

Cloud cover in the region was mainly scattered during morning hours and increased to broken state in the afternoon. Mean air temperature range in Nyeri and Nyandarua was 12.7 °C - 18.3 °C and within Laikipia County 18.4 °C - 20.7 °C. Total pan evaporation in the region was 38.6 mm in Thika, 45.6 mm and 51.7 mm at Dagoretti and Kabete area.

Maize in Nyahururu has reached maturity stage and was in a fair state, which corresponds to normal growth and normal yield is expected.

In Nyeri, and Thika, Farmers have completed planting and are waiting for the crops to germinate

2.4 EASTERN REGION.

Increased rainfall activities observed in the region compared to the previous dekad Embu station received the highest amount of rainfall and had three days with

rainfall greater than 5.0 mm during the dekad. Meru and Mwea stations followed closely with four rainy days. Moderate rainfall in the region was reported at Materi, Kaanyaga and other stations within Tharaka Nithi. Liyuni station in Machakos reported a single day with moderate rainfall during the same period. The rest of the stations reported Light rainfall or remained dry during the same period.

Cloud cover in the region was scattered during morning hours and increasing to broken in the afternoon hours. Mean air temperature in the region was between 20.9 and 27.0 °C. Total pan evaporation at Katumani was 66.6 mm, and 38.2 mm at Moyale stations.

Some farmers have planted while others are waiting for the onset of rains to start planting their crops.

Mangoes (variety apple) were at 100% fruit setting stage. The crop condition was fair which corresponds to normal growth. Weeds are seen very seldom within the farm and much sunshine seems to be adversely affecting the mangoes, which have already attained a sensitive phase.

Oranges (Washington Navel) were at 100% flowering stage and the crop condition was fair corresponding to normal growth. Infestation by aphids and too much sunshine are affecting the flowering phase. Weeds are seen very seldom within the farm

With the current onset of the short rain season, farmers at Meru and Embu, have planted and the crops are doing well.

2.5 NORTH EASTERN REGION

Reduced rainfall activities observed in the region compared to the previous dekad most stations within the region reported light rains during the entire period. Scattered to

broken cloud cover was predominant in the region during both morning and afternoon hours. Mean air temperature in the region was between 28.2 and 29.9 °C. Total pan evaporation at Mandera station was 68 mm. Pasture and forage regeneration is expected to continue improving because of the rains the region continued to receive during the current dekad.

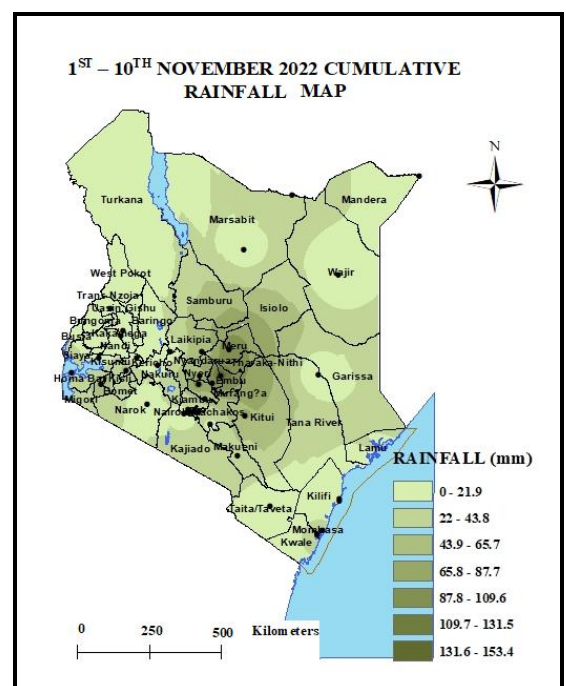
2.6 COASTAL REGION.

Several stations reported moderate to heavy rainfall while the rest continued to report light rainfall or dry conditions.

Scattered to broken cloud cover during both morning and afternoon hours was the most predominant situation during the past dekad. Mean air temperatures slightly increased over all stations within the region.

Malindi meteorological station reported total pan evaporation of 58.7 mm during the same period.

Some farmers are yet to start planting



In summary, the next dekad (1st – 10th Nov. 2022) is expected to be a busy period for many farmers especially over central and Nairobi area. Eastern south eastern coastal regions.

For clarification, feedback or further guidance, please Contact:

**The Director,
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