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AGROMETEOROLOGICAL BULLETIN

Ref: MET/8 /001 / 1

Issue No: 35/2024

Date: 24/12/2024

DEKAD 35 PERIOD: 11TH – 20TH DECEMBER 2024.

1.0 HIGHLIGHTS

- During the period under review several parts of the country experienced enhanced rainfall amounts compared to the previous dekad.
- Voi station in the Coast region recorded the highest amount of rainfall of 119.7 mm followed by Dagoretti with 101.4 mm. (see **Figures 3.1 and 3.3**).
- The mean air temperature increased over most parts especially at night (see **Figures 3.2 and 3.4**).
- Total pan evaporation readings increased over most parts the country compared to the previous dekad.

2.0 During the next ten days Rainfall is expected to continue over some parts the Highlands East and West of Rift Valley, the Lake Victoria Basin, the South-eastern lowlands and the Coast.

2.1 WEATHER AND CROP REVIEW FOR THE PERIOD 11TH – 20TH DECEMBER 2024.

2.2 WESTERN AND NYANZA REGION

Some stations in the region reported increased rainfall compared to the previous dekad. Kisumu station recorded the highest amount of 71.8 mm followed by Kisii and Kakamega stations with 39.8 mm and 20.6 mm respectively. Mean air temperature increased significantly in the region ranging between 20.9°C in Kisii to 24.8 °C in Suba. Scattered cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 20.6 mm which was below its long-term mean of 29.5 mm.

The average mean air temperature at the station increased from 21.6°C to 22.7°C, the station reported scattered cloud cover during the dekad.

Maize crop has attained maturity, beans have been harvested.

2.12 KISII:

The station recorded 39.8 mm of rainfall, which was above its long term of 21.5 mm during the dekad. Mean air temperature slightly increased from 20.5°C to 20.9°C during the same period.

The station reported scattered cloud cover during morning and broken cloud cover in the afternoon during the dekad.

Maize crops has reached flowering stage and are in good state while beans harvesting has started.

2.2.0 RIFT VALLEY REGION

Most stations within the region reported improved rainfall during dekad. Ngong station recorded the highest of 60.6 mm followed by Kericho with 55.2 mm.

Mean air temperature in the region ranged between 17.8 °C in Eldoret and 20.2 °C in Kitale.

Scattered cloud cover dominated over most parts of the region during the dekad.

2.2.1 KITALE:

The station recorded 0.3 mm of rainfall during the dekad. The mean air temperature increased from 18.7°C to 20.2°C.

The station reported scattered clouds cover during the dekad.

Farmers have harvested their crops.

2.2.2 KERICHO:

The station reported rainfall amount of 55.2 mm as compared to its long-term mean 3.5 mm. Mean air temperature remained unchanged at 18.0 °C

The station reported broken clouds cover all through during the dekad.

Both maize and beans crops are at flowering stage and corresponding to the normal growth. Normal yield is expected.

2.3.0 CENTRAL AND NAIROBI REGION.

Most stations in the region reported increased rainfall compared to the previous dekad. Dagoretti and Kangema stations recorded 101.4 mm and 95.0 mm of

rainfall respectively (Fig 3.3). Mean air temperature increased in the region and ranged between 16.7°C and 21.8°C. Most stations from the region reported scattered cloud cover throughout the dekad.

2.3.1 NYERI:

The station reported rainfall amount of 31.6 mm which was above the long term dekadal mean of 4.8 mm. Mean air temperature increased from 18.8°C to 20.5°C during the dekad.

Cloud cover was broken throughout the dekad.

Maize is at past ninth leaf stage and in fair state while beans are at the flowering stage.

2.3.2 THIKA:

The station received a rainfall amount of 47.9 mm which is above its long-term dekadal mean of 12.3 mm. Mean air temperature increased from 21.5°C to 21.7°C during the dekad.

The station reported scattered cloud cover during the dekad.

Maize are at emergence stage while beans are at their flowering stage lack of rains in the past dekad has affected the plants growth.

2.3.3 DAGORETTI

The station reported cumulative rainfall amount of 101.4 mm which is above its long-term dekadal mean of 46.1 mm. The mean air temperature slightly increased 20.1°C to 20.5 °C. The station reported broken cloud cover throughout the dekad.

Maize crop is at emergence stage and beans has attained the flowering stage and in fair state.

2.3.4 KABETE:

The station reported cumulative rainfall amount of 92.3 mm during the dekad. The mean air temperature at the station increased from 19.2°C to 20.2°C. The station reported scattered cloud cover throughout the dekad.

Maize and Beans are at emergence and corresponding to the normal growth due to sufficient precipitation.

2.3.5 NYAHURURU:

The station received rainfall amount of 11.3 mm which was above its long-term mean of 0.9 mm. The mean air temperature at the station increased from 15.1°C to 16.7°C. The station reported broken clouds cover throughout the dekad.

Maize harvesting is ongoing.

2.4.0 EASTERN REGION:

Several stations in the region reported increased rainfall compared to the previous dekad. Embu station recorded the highest amount of 38.4 mm followed by Katumani and Kitui stations with 32.4mm and 29.4 mm respectively during the dekad. (see Fig 3.3). Mean air temperature ranged between 19.5°C and 24.9°C. Scattered cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded cumulative rainfall amount of 21.1 mm which was below the long-term dekadal mean of 2.1 mm. Mean air temperature remained unchanged at 19.5°C.

Scattered clouds cover was recorded throughout the period under review.

Maize has attained ninth leaf stage while beans crop is at flowering and corresponding to the normal crop growth.

2.4.2 EMBU:

The station received 38.4 mm of rainfall during the dekad. The mean air temperature observed under the same period slightly increased from 20.1 °C to 20.8°C.

The station reported scattered cloud cover throughout the dekad.

Maize crop is at post emergence stage and beans flowering stage. Crops are expected to improve due to the good rains.

2.4.3 KATUMANI:

The station recorded rainfall amount of 32.4 mm during the dekad.

The mean air temperature increased from 20.2°C to 20.5°C.

Scattered clouds cover was reported throughout the dekad.

Maize crops are at emergence stage and beans in the flowering stage all in a good state.

2.5.0 COASTAL REGION

Some stations in the region reported increased rains in respect to the previous dekad with Voi station and Mombasa recording 119.7 mm and 73.2 mm respectively. The mean air temperature ranged between 26.2°C and 28.8°C. Scattered clouds cover conditions dominated during the dekad.

2.5.1 MTWAPA:

The station recorded a rainfall amount of 39.2 mm which was above its long term dekadal mean of 9.0 mm. Mean air temperature remained constant of 28.0°C to 28.2°C Broken cloud cover was reported all through during the dekad.

Maize is at post emergence and weeding is taking place. Beans has attained maturity.

2.5.2 MSABAHA:

The station reported a rainfall amount of 6.7 mm during the dekad. The mean air temperature slightly increased from 28.3°C to 28.4°C. Scattered cloud cover was reported during the dekad.

No activities happening on the farms as the lands are lying fallow.

2.6.0 NORTH EASTERN REGION:

The region remained dry during the dekad. Mean air temperature reduced in the region and ranged between 29.3°C and 29.7°C. Scattered cloud cover dominated over several parts of the region.

DEKAD 35 2024 RAINFALL AND TEMPERATURE MAPS/CHARTS & TABLES

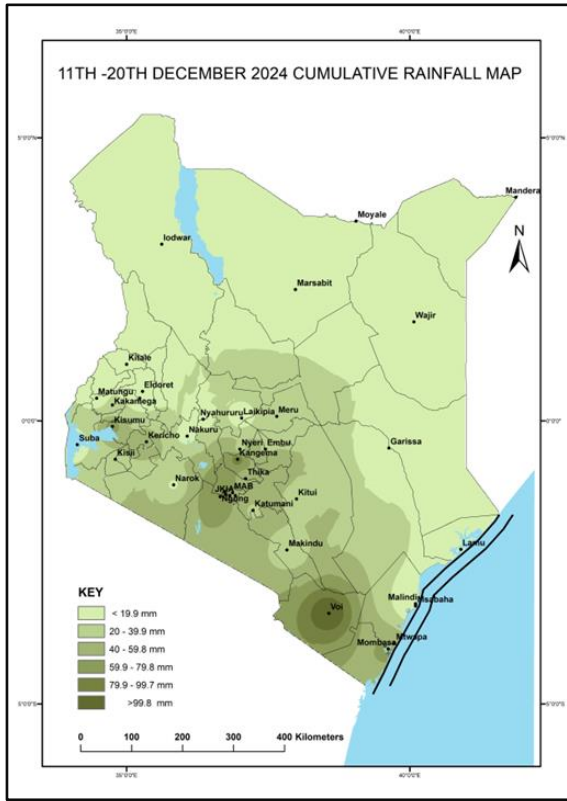


Fig: 3.1

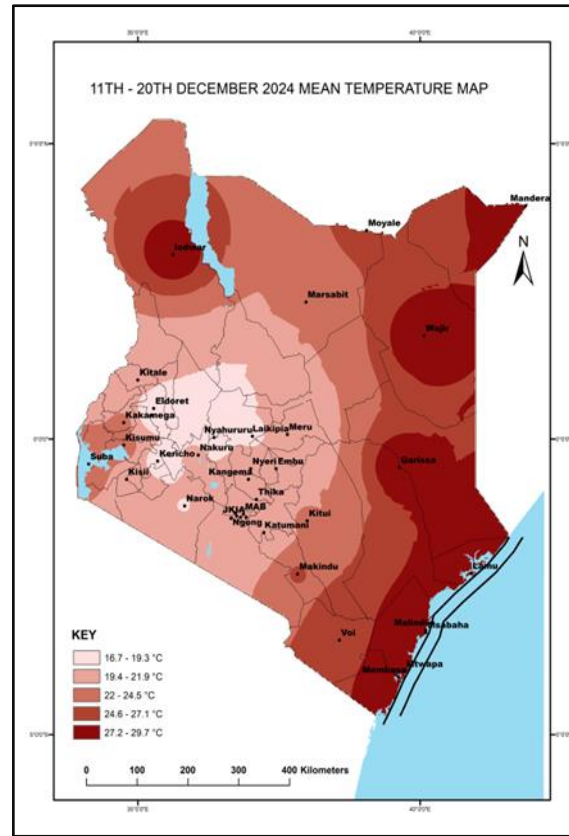


Fig: 3.3

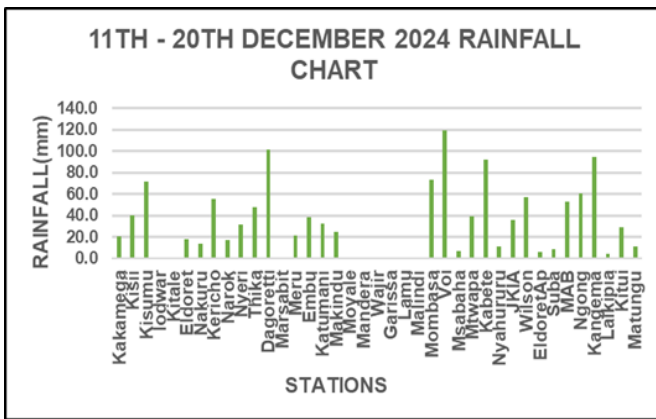


Fig: 3.2

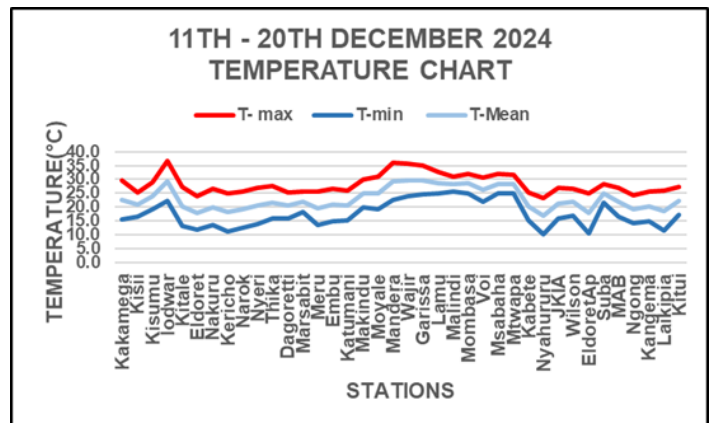


Fig: 3.4

| Station | Maximum consecutive wet days during the dekad | Maximum consecutive dry days during the dekad | Days with moderate or heavy RF during the dekad | Total rainfall from the start of OND 2024 season |
|-----------|---|---|---|--|
| Kakamega | 1 | 4 | 1 | 580.1 |
| Kisii | 2 | 2 | 3 | 489.3 |
| Kitale | 0 | 8 | 0 | 298.5 |
| Kericho | 2 | 1 | 3 | 559.3 |
| Nyeri | 2 | 6 | 1 | 193.0 |
| Thika | 3 | 7 | 1 | 362.6 |
| Dagoretti | 3 | 5 | 3 | 503.7 |
| Meru | 1 | 6 | 1 | 398.4 |
| Embu | 2 | 8 | 1 | 354.1 |
| Katamani | 2 | 3 | 2 | 171.0 |
| Msabaha | 2 | 4 | 0 | 293.9 |
| Mtwapa | 2 | 3 | 4 | 234.3 |
| Kabete | 3 | 7 | 3 | 642.5 |
| Nyahururu | 1 | 8 | 1 | 228.3 |

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS

DURING THE NEXT TEN (10) DAYS; 21ST – 31ST

DECEMBER 2024.

In the **Highlands West of Rift valley, Lake Victoria Basin and the Rift valley and Nyanza regions**, Rains are expected over few places during the first half of the forecast period. Afternoon and night showers are expected over several places reducing to few places

during the first half of the forecast period. Dry conditions expected in the second half of the forecast period.

In the **Central region and Nairobi County**, Rains are expected over few places during the first half of the forecast period. Afternoon and night showers are likely to occur over several places reducing to few places during the first half of the forecast period. Dry conditions expected in the second half of the forecast period.

The crops and pastures in the region are expected to benefit from sunny session for the vegetative growth.

In **North Western** Sunny intervals are expected during the week, nights are likely to be partly cloudy.

In **North Eastern**, Sunny intervals are expected during the week, nights are likely to be partly cloudy. A few areas may experience light rains.

Pastures and forage are expected to rejuvenate due to the past moisture.

In **south-eastern lowlands**, Rains are expected over few places during the first half of the forecast period. Afternoon and night showers are likely to occur over several places reducing to few places during the first half of the forecast period. Mainly dry conditions expected in the second half of the forecast period

Crops and pasture condition is expected to rejuvenate owing to the humble moisture in the soil.

In the **Coastal region**, Morning and afternoon showers are expected over few places occasionally spreading to several places during first half of the dekad. A few areas may experience showers during the beginning of the forecast period.

Crops and pastures conditions in the region is expected to improve positively due to the expected showers over the region.

4.1 AGRO-ADVISORY:

Farmers are advised to make the best of the amount of moisture in the soil by planting different crop varieties like

sweet potatoes, cassava etc. to enhance the food security in the land.

Pastoralists are advised on conservation of the current forage crop.

Appropriate grazing during the current season to maintain plant vigor-this will ensure survival during the depressed rain season and recovery after drought.

Enhance offtake to facilitate conservative stocking rate during the OND.

Offtake before the droughts starts to receive better prices.

Farmers should ensure proper storage of cereals in dry and cool places to avoid food contamination.

Farmers are advised to establish robust collaborations with Meteorological staff and other technical personnel at the grassroots to enhance their understanding of weather patterns and their implications on agricultural activities.

For inquiries or any clarification, please use the email below



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