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AGROMETEOROLOGICAL BULLETIN

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DEKAD 36 PERIOD: 21ST - 31ST DECEMBER 2024.

1.0 HIGHLIGHTS

- During the period under review several parts of the country experienced reduced rainfall amounts compared to the previous dekad.
- Kisii station in the Nyanza region recorded the highest amount of rainfall of 82.4 mm followed by Narok with 80.9 mm. (see **Figures 3.1 and 3.3**).
- The mean air temperature decreased over several parts of the country as a result of increased cloud cover (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 sunny and dry weather conditions are expected to prevail over most parts of the country. Light to moderate rainfall may be experienced over a few areas in Highlands East and West of Rift Valley, the Lake Victoria Basin, South Rift valley, the South-eastern lowlands and the Coast.

2.1 WEATHER AND CROP REVIEW FOR THE PERIOD 21ST - 31ST DECEMBER 2024.

2.2 WESTERN AND NYANZA REGION

Most stations in the region reported increased rainfall compared to the previous dekad. Kisii station recorded the highest amount of 82.4 mm followed by Kakamega and Kisumu stations with 65.8 mm and 41.6 mm respectively. Mean air temperature decreased significantly in the region ranging between 21.1°C in Kisii to 24.5 °C in Suba. Broken cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 65.8 mm which was above its long-term mean of 35.6 mm.

The average mean air temperature at the station decreased from 22.7°C to 22.4°C, the station reported broken cloud cover during the dekad.

Farmers have started harvesting maize crop.

2.12 KISII:

The station recorded 82.4 mm of rainfall, which was above its long term of 50.0 mm during the dekad. Mean air temperature slightly increased from 20.9°C to 21.1°C during the same period.

The station reported broken cloud cover during the dekad.

Maize crops is at post flowering stage and are in good state while beans harvesting has been completed.

2.2.0 RIFT VALLEY REGION

Some stations within the region reported improved rainfall during dekad. Narok station recorded the highest amount of 80.9 mm followed by Kericho with 17.0 mm.

Mean air temperature in the region ranged between 17.8 °C in Eldoret and 20.4 °C in Kitale.

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

2.2.1 KITALE:

The station recorded 5.2 mm of rainfall during the dekad. The mean air temperature slightly increased from 20.2°C to 20.4°C.

The station reported broken clouds cover during the dekad.

Farmers have harvested their crops.

2.2.2 KERICHO:

The station reported rainfall amount of 17.0 mm as compared to its long-term mean of 47.6 mm. Mean air temperature increased from 18.0 °C to 18.4 °C

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

Bean crop has attained maturity while maize crop in some few farms have turned yellow.

2.3.0 CENTRAL AND NAIROBI REGION.

Most stations in the region reported decreased rainfall compared to the previous dekad. Wilson and Dagoretti stations recorded 61.2 mm and 41.0 mm of rainfall respectively (Fig 3.3). Mean air temperature decreased in the region and ranged between 15.9°C and 21.1°C.

Several stations from the region reported broken cloud cover throughout the dekad.

2.3.1 NYERI:

The station reported rainfall amount of 5.6 mm which was below the long term dekadal mean of 28.5 mm. Mean air temperature decreased from 20.5°C to 19.4°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 and corresponding to normal growth.

2.3.2 THIKA:

The station received a rainfall amount of 5.6 mm which is below its long-term dekadal mean of 27.5 mm. Mean air temperature decreased from 21.7°C to 21.1°C during the dekad.

The station reported scattered cloud cover during the dekad.

Maize and beans are at 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 41.0 mm which is above its long-term dekadal mean of 31.9 mm. The mean air temperature slightly decreased from 20.5°C to 19.8°C. The station reported scattered cloud cover throughout the dekad.

Maize crop has attained ninth leaf stage and beans has attained flowering stage and in fair state.

2.3.4 KABETE:

The station reported cumulative rainfall amount of 10.7 mm during the dekad. The mean air temperature at the station decreased from 20.2°C to 18.9°C. The station reported broken cloud cover throughout the dekad.

Maize is at flowering while beans has attained maturity.

2.3.5 NYAHURURU:

The station received rainfall amount of 1.4 mm which was below its long-term mean of 21.6 mm. The mean air temperature at the station increased from 15.1°C to 15.9°C. The station reported broken clouds cover throughout the dekad.

Maize harvesting has been completed.

2.4.0 EASTERN REGION:

Most stations in the region reported decreased rainfall compared to the previous dekad. Meru station recorded the highest amount of 30.5 mm followed by Embu and Kitui stations with 28.2mm and 25.1 mm respectively during the dekad. (see Fig 3.3). Mean air temperature ranged between 19.3°C and 24.7°C. Scattered cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded cumulative rainfall amount of 30.5 mm which was below the long-term decadal mean of 37.6 mm. Mean air temperature decreased from 19.5°C to 19.3°C.

Scattered clouds cover was recorded throughout the period under review.

Both crops are showing signs of withering despite the recent rains. Areas bordering the Arid and Semi-Arid areas have total crop failure, no flowering has taken place.

2.4.2 EMBU:

The station received 28.2 mm of rainfall during the dekad. The mean air temperature observed under the same period slightly decreased from 20.8 °C to 20.1°C.

The station reported scattered cloud cover throughout the dekad.

Both crops are at flowering and corresponding well to the normal growth.

2.4.3 KATUMANI:

The station recorded rainfall amount of 9.9 mm during the dekad.

The mean air temperature decreased from 20.5°C to 19.9°C.

Broken clouds cover was reported throughout the dekad.

Maize crop is at emergence stage and beans in the flowering stage all in a good state.

2.5.0 COASTAL REGION

Most stations in the region reported decreased rains in respect to the previous dekad with Mombasa station and Mtwapa recording 60.6 mm and 17.3 mm respectively. The mean air temperature ranged between 26.2°C and 28.7°C. Broken clouds cover conditions dominated during the dekad.

2.5.1 MTWAPA:

The station recorded a rainfall amount of 17.3 mm which was above its long term dekad mean of 8.8 mm. Mean air temperature decreased from 28.2°C to 27.3°C Broken cloud cover was reported all through during the dekad.

Maize is at flowering and weeding is taking place

2.5.2 MSABAHA:

The station reported a rainfall amount of 1.5 mm during the dekad. The mean air temperature slightly decreased from 28.4°C to 28.0°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 increased in the region and ranged between 29.5°C and 29.8°C. Scattered cloud cover dominated over several parts of the region.

DEKAD 36 2024 RAINFALL AND TEMPERATURE MAPS/CHARTS & TABLES

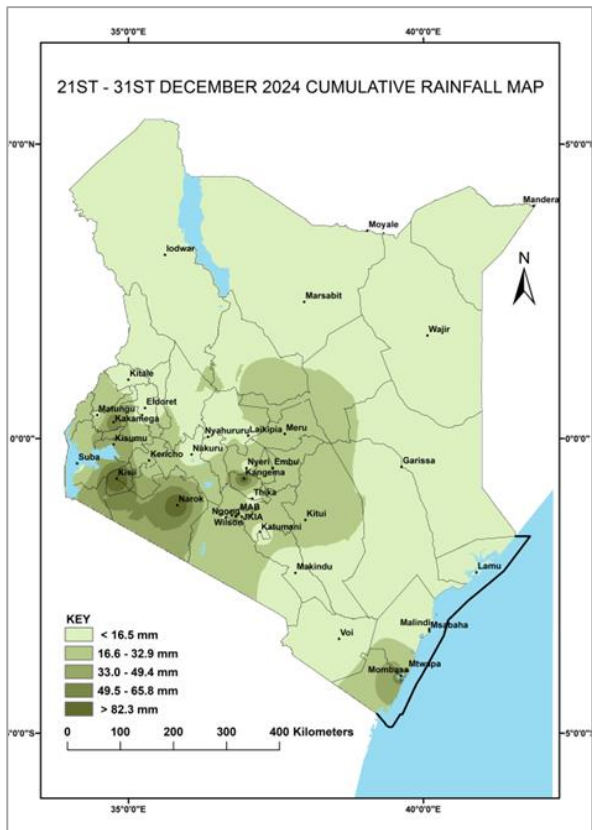


Fig: 3.1

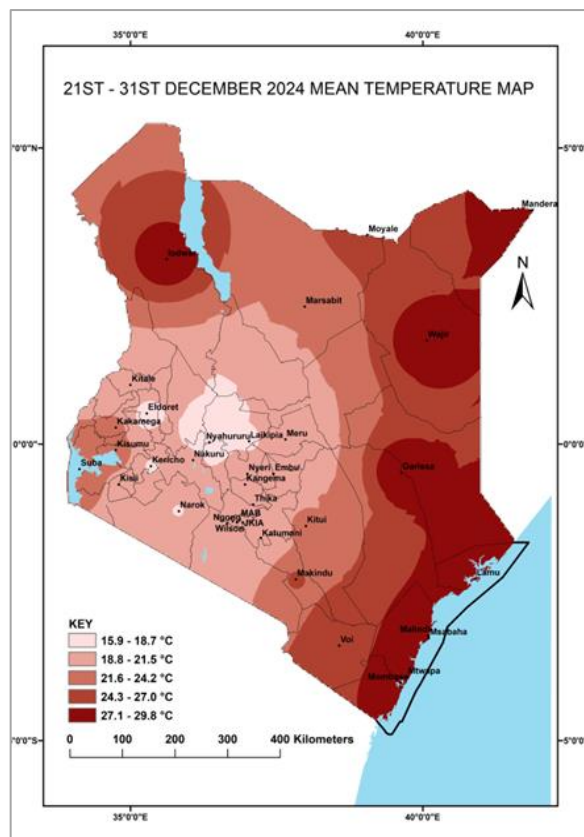


Fig: 3.3

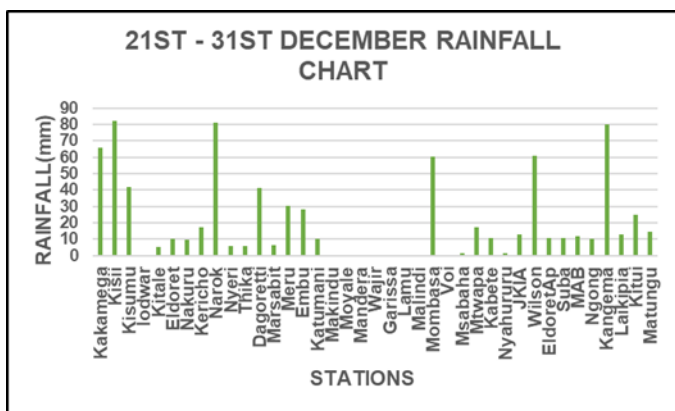


Fig: 3.2

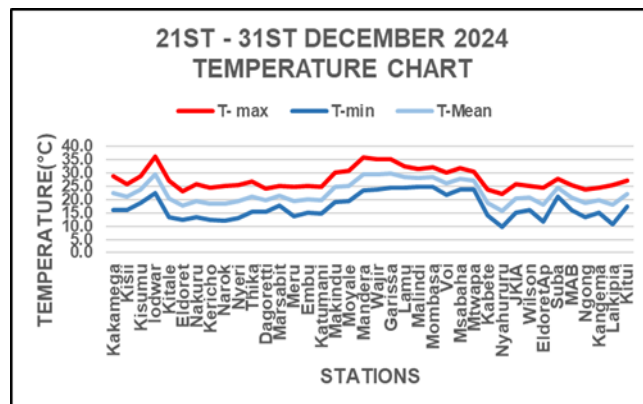


Fig: 3.4

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	2	3	3	645.9
Kisii	2	2	3	571.7
Kitale	1	6	0	303.7
Kericho	4	3	1	576.3
Nyeri	2	9	0	198.7
Thika	1	9	0	368.2
Dagoretti	5	6	3	544.7
Meru	2	8	2	428.9
Embu	2	9	2	382.3
Katamani	1	10	1	180.9
Msabaha	1	7	0	295.4
Mtwapa	2	8	2	251.4
Kabete	2	7	1	653.2
Nyahururu	0	5	0	229.8

Fig: 3.5

4.0 EXPECTED WEATHER AND CROP CONDITIONS

DURING THE NEXT TEN (10) DAYS; 1ST – 10TH

JANUARY 2025.

In the **Highlands West of Rift valley, Lake Victoria Basin and the Rift valley and Nyanza regions**, Morning sunny intervals. Occasional afternoon showers are expected over few places. Nights are expected to be partly cloudy though a few areas in Narok and Lake Victoria basin may experience occasional showers.

In the **Central region and Nairobi County**, Morning sunny intervals expected to prevail. Occasional afternoon showers are expected over few places. Nights are expected to be partly cloudy though a few areas may receive showers.

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

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

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

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

In **south-eastern lowlands**, Sunny intervals are expected during the day. A few areas may have occasional light showers in the afternoons. Nights are expected to be partly cloudy though a few areas in Kajiado may experience occasional showers.

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

In the **Coastal region**, mainly sunny intervals expected to prevail during the day. A few areas may experience occasional morning showers which may extend to early afternoon. Nights are expected to be partly cloudy.

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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