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MINISTRY OF ENVIRONMENT, CLIMATE CHANGE & FORESTRY
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AGROMETEOROLOGICAL BULLETIN

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DEKAD 01 PERIOD: 1ST – 10TH JANUARY 2025.

1.0 HIGHLIGHTS

- During the period under review rainfall amounts reduced in most parts of the country compared to the previous dekad.
- Kisii station in the Nyanza region recorded the highest amount of rainfall of 28.7 mm followed by Kitale station in North Rift Valley with 25.7 mm. (see **Figures 3.1 and 3.3**).
- The mean air temperature decreased over several parts of the country as a result of decreased cloud cover during the 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 sunny - dry weather conditions are expected to prevail over most parts of North Eastern and North Western parts of the country. Light to moderate rainfall is expected over the rest of the Country (see **Figure 3.6**).

2.1 WEATHER AND CROP REVIEW FOR THE PERIOD 1ST – 10TH JANUARY 2025.

2.2 WESTERN AND NYANZA REGION

Most stations in the region reported decreased rainfall compared to the previous dekad. Kisii station recorded the highest amount of 28.7 mm followed by Kakamega with 10.0 mm. Mean air temperature increased slightly in the region ranging between 21.6°C in Kisii to 25.3 °C in Suba. Scattered cloud cover dominated the region throughout the dekad.

2.11 KAKAMEGA:

The station reported a rainfall amount of 10.0 mm which was below its long-term mean of 27.0mm.

The average mean air temperature at the station increased from 22.4°C to 22.9°C, the station reported scattered cloud cover during the dekad.

Farmers have started harvesting maize crop.

2.12 KISII:

The station recorded 28.7 mm of rainfall, which was below its long term of 33.2 mm during the dekad. Mean air temperature slightly increased from 21.1°C to 21.6°C during the same period.

The station reported scattered cloud cover during the dekad.

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

2.2.0 RIFT VALLEY REGION

Some stations within the region reported increased rainfall during dekad. Kitale station recorded the highest amount of 25.7 mm followed by Eldoret with 13.0 mm.

Mean air temperature in the region ranged between 17.5 °C in Eldoret and 20.0 °C in Kitale.

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

2.2.1 KITALE:

The station recorded 25.7 mm of rainfall during the dekad. The mean air temperature slightly decreased from 20.4°C to 20.0°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 9.6 mm as compared to its long-term mean of 26.5 mm. Mean air temperature decreased from 18.4 °C to 18.2 °C

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

Beans have attained maturity while maize is at flowering stage and in poor state due to insufficient rainfall.

2.3.0 CENTRAL AND NAIROBI REGION.

Most stations in the region reported decreased rainfall compared to the previous dekad. Dagoretti and Nyeri stations recorded 10.5 mm and 2.7 mm of rainfall respectively (Fig 3.3). Mean air temperature decreased in the region and ranged between 14.8°C and 20.6°C.

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

2.3.1 NYERI:

The station reported rainfall amount of 2.7 mm which was below the long term dekad mean of 28.5 mm. Mean air temperature decreased from 19.4°C to 18.3°C during the dekad.

Cloud cover was scattered throughout the dekad.

Maize is at past ninth leaf stage while beans are at the flowering stage however, both crops are in poor state due to insufficient rainfall.

2.3.2 THIKA:

The station received no rainfall during the dekad in comparison to its long-term dekad mean of 25.2 mm. Mean air temperature decreased from 21.1°C to 20.6°C during the dekad.

The cloud cover at the station was few during the dekad.

Both maize and beans are at flowering stage and in poor state due to lack of sufficient rains in the past dekad.

2.3.3 DAGORETTI

The station reported cumulative rainfall amount of 10.5 mm which is below its long-term dekad mean of 21.7 mm. The mean air temperature remained constant at 19.8°C. The station reported scattered cloud cover throughout the dekad.

Maize crop has attained flowering stage and beans are post flowering stage and both crops are being affected by moisture stress.

2.3.4 KABETE:

The station reported 1.1 mm during the dekad which is below its long term dekad mean of 19.2 mm. The mean air temperature at the station increased from 18.9°C to 19.1°C. The station reported scattered cloud cover throughout the dekad.

Maize crop has attained flowering stage and beans are post flowering stage however, both crops are being affected by moisture stress due to insufficient rainfall.

2.3.5 NYAHURURU:

The station received rainfall amount of 2.1 mm which was below its long-term mean of 10.7 mm. The mean air temperature at the station decreased from 15.9°C to 14.8°C. The station reported scattered 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. Kitui station recorded the highest amount of 18.7 mm followed by Meru station with 0.1 mm during the dekad, (see Fig 3.3). Mean air temperature ranged between 18.5°C and 25.5°C. Scattered cloud cover dominated the region throughout the dekad.

2.4.1 MERU:

The station recorded rainfall amount of 0.1 mm which was below the long-term decadal mean of 37.0 mm. Mean air temperature decreased from 19.3°C to 18.5°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 remained dry during the dekad. The mean air temperature observed under the same period slightly decreased from 20.1 °C to 19.6°C.

The station reported scattered cloud cover throughout the dekad.

Both crops are at flowering and being affected by insufficient rainfall.

2.4.3 KATUMANI:

The station remained dry during the dekad.

The mean air temperature increased slightly from 19.9 mm to 20.0°C.

Scattered clouds cover was reported throughout the dekad.

Maize crop is at flowering stage and beans in the ripening stage. Both crops are in great need of moisture.

2.5.0 COASTAL REGION

Most stations in the region reported reduced rainfall than the previous dekad. The mean air temperature ranged between 26.7°C and 28.6°C. Scattered cloud cover dominated during the dekad.

2.5.1 MTWAPA:

The station recorded a rainfall amount of 0.3 mm which was below its long term dekad mean of 6.1 mm. Mean air temperature decreased from 28.2°C to 27.8°C. Broken cloud cover was reported all through during the dekad.

Maize is at maturity stage and below normal yield is expected due to insufficient moisture in the soil.

2.5.2 MSABAHA:

The station remained dry during the dekad. The mean air temperature slightly increased from 28.0°C to 28.3°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 ranged between 29.1°C and 30.1°C. Scattered cloud cover dominated over several parts of the region.

DEKAD 01 2025 RAINFALL AND TEMPERATURE MAPS/CHARTS & TABLES

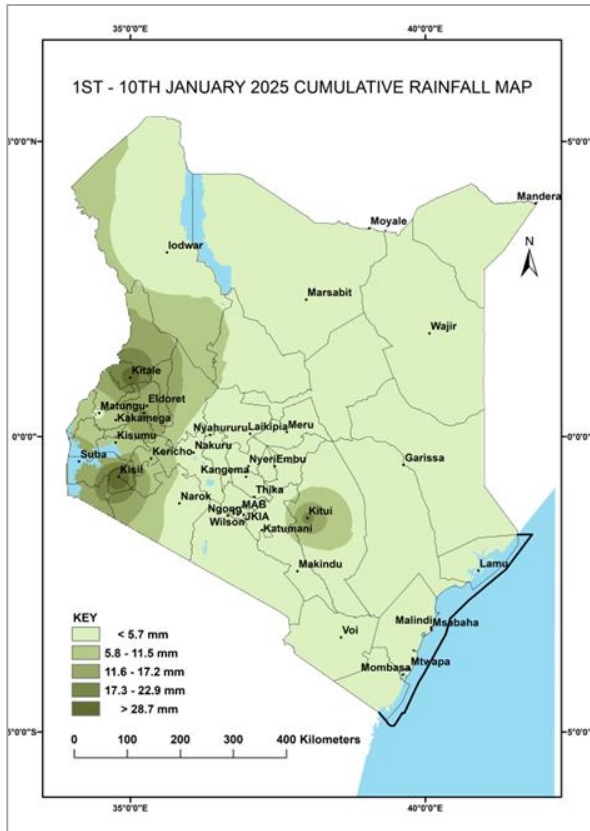


Fig: 3.1

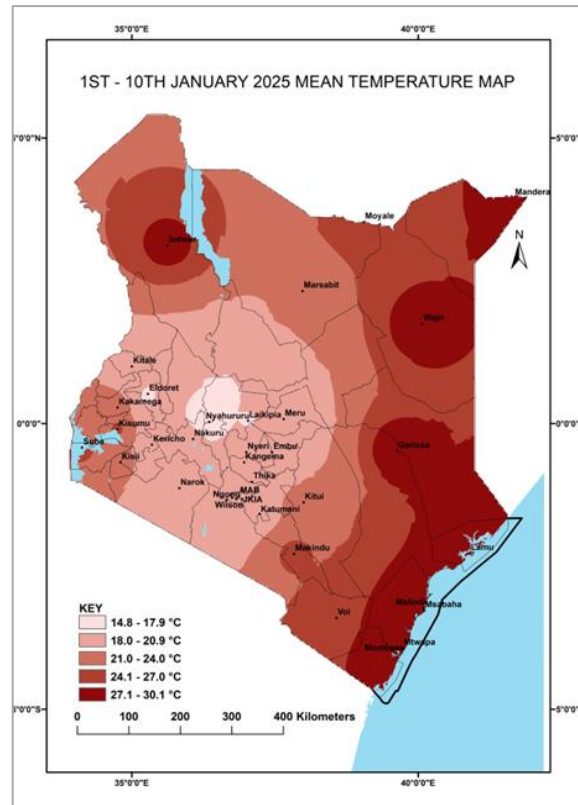


Fig: 3.3

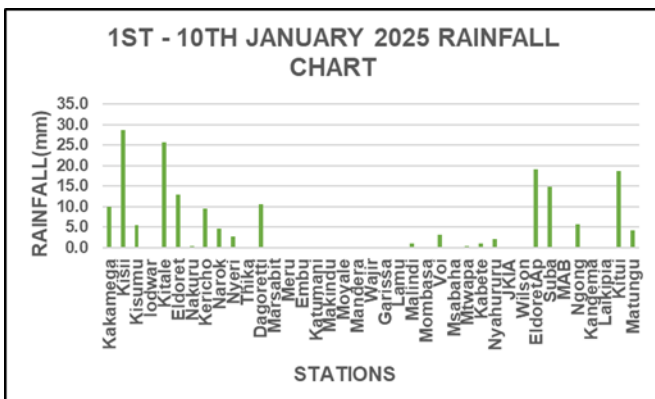


Fig: 3.2

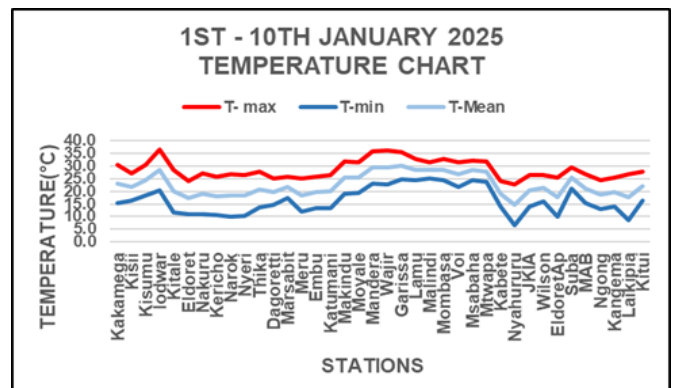


Fig: 3.4

Station	Maximum consecutive wet days during the dekad	Maximum consecutive dry days during the dekad	Number of rainy days during the dekad	Cumulative rainfall from 1 st of January 2025
Kakamega	1	6	1	10.0
Kisii	2	4	2	28.7
Kitale	1	8	1	25.7
Kericho	3	7	1	9.6
Nyeri	1	5	0	2.7
Thika	0	10	0	0.0
Dagoretti	1	4	1	10.5
Meru	0	8	0	0.1
Embu	0	10	0	0.0
Katamani	0	5	0	0.0
Msabaha	0	6	0	0.0
Mtwapa	0	5	0	0.3
Kabete	0	5	0	1.1
Nyahururu	1	8	0	2.1

Fig: 3.5

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

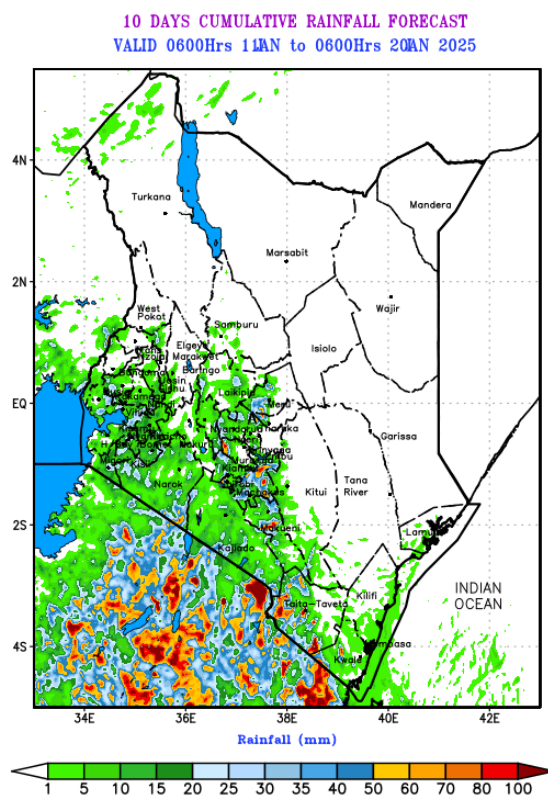


Fig:3.6

4.0 EXPECTED WEATHER AND CROP CONDITIONS DURING THE NEXT TEN (10) DAYS; 11TH – 20TH JANUARY 2025.

Counties in Western, Nyanza and South Rift valley Light to moderate rainfall is expected over several places.

In the **Central region and Nairobi counties**, Light to moderate rainfall is expected over several places.

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.

In **south-eastern lowlands and Coastal counties**, Light to moderate rainfall is expected over several places

Crops and pasture condition is expected to rejuvenate due to the expected rainfall over south Eastern region.

4.1 AGRO-ADVISORY:

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.

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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