

Republic of Kenya



KENYA METEOROLOGICAL
DEPARTMENT

Republic of Kenya



MINISTRY OF HEALTH



MALARIA EPIDEMIC EARLY WARNING PREDICTION SYSTEM FOR WESTERN KENYA HIGHLANDS FOR APRIL 2026

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Summary

Malaria epidemic early prediction model outputs for Western Highlands of Kenya including Kakamega, Kisii, and Nandi, for the period April to May 2026 indicates that there is a **high overall risk of 100% chance of Malaria epidemic in Kisii, a high risk of 60% chance of malaria epidemic in Nandi and a lower risk of 27.3% chance of malaria epidemic in Kakamega** during the forecast period.

1. Model Outputs

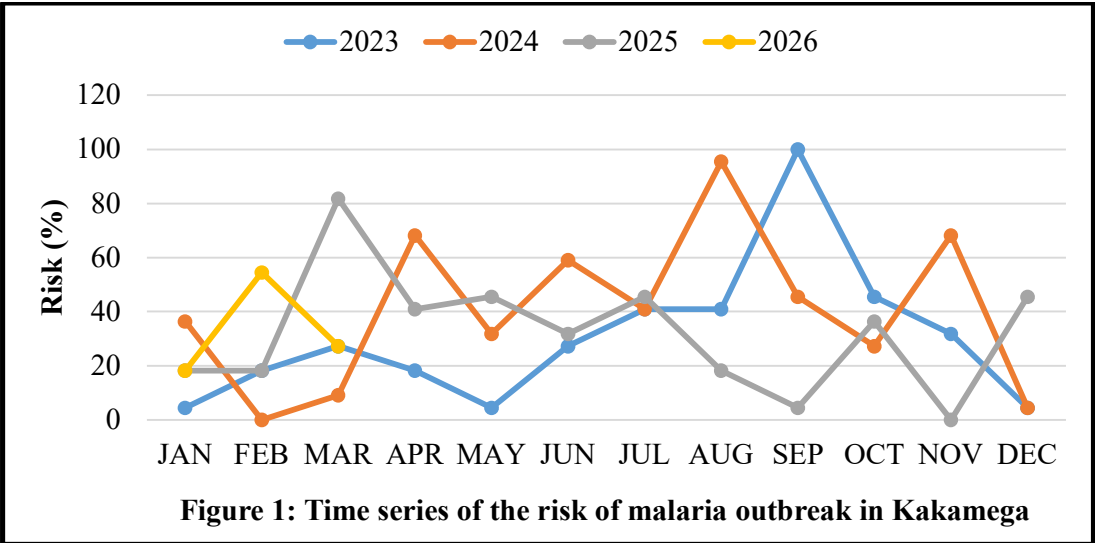
1.1 Malaria epidemic early prediction system for Kakamega

The observed climate data for March 2026 indicates a decrease in the average maximum temperature from 28.8°C in February 2026 to 27.7°C in March 2026. This observation in March 2026 *was negative (-0.4) below the long term mean of the month*. Rainfall increased from 221.5mm in February 2026 to 339.8mm in March 2026. **The additive model percentage risk is 27.3%.**

Box 1:

For Kakamega, the epidemic threshold level is 30%.

Consequently, there is a **lower risk** of Malaria Epidemic in Kakamega in the months of April and May 2026 (See Figure 1)

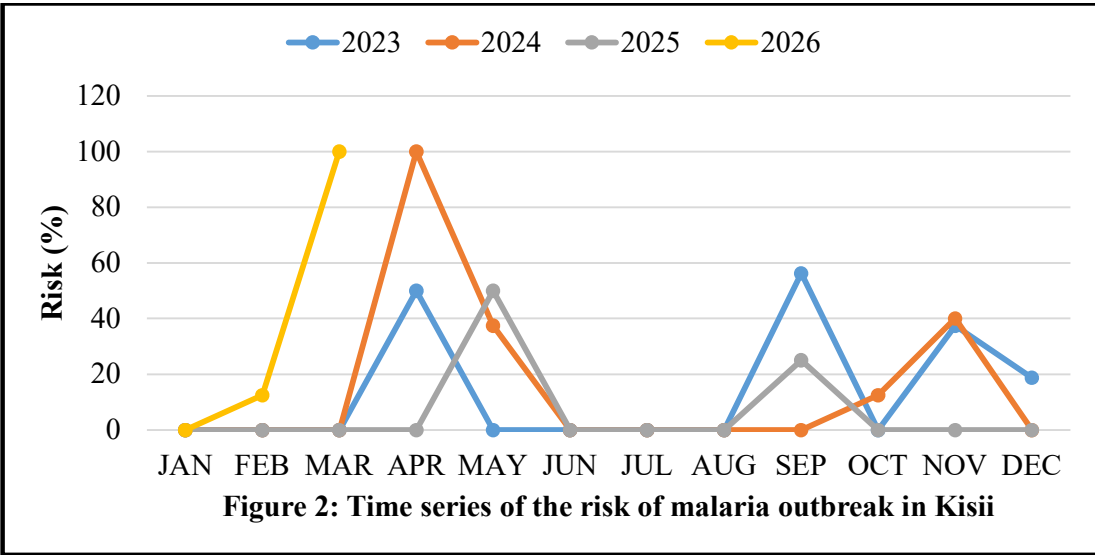


1.2 Malaria epidemic early prediction system for Kisii

The observed climate data for Kisii for March 2026 indicates a decrease in average maximum temperature from 26.2°C in February 2026 to 25.4°C in March 2026. This observation in March 2026 was *negative (-0.6) below the long term mean of the month*. Rainfall increased from 236.5mm in February 2026 to 514.0mm in March 2026. **The model output risk is 100%.**

Box 2:
For Kisii, the epidemic threshold level is 20%.

Therefore, there is a **high risk** of malaria epidemic in Kisii in the months of April and May 2026. (See Figure 2).

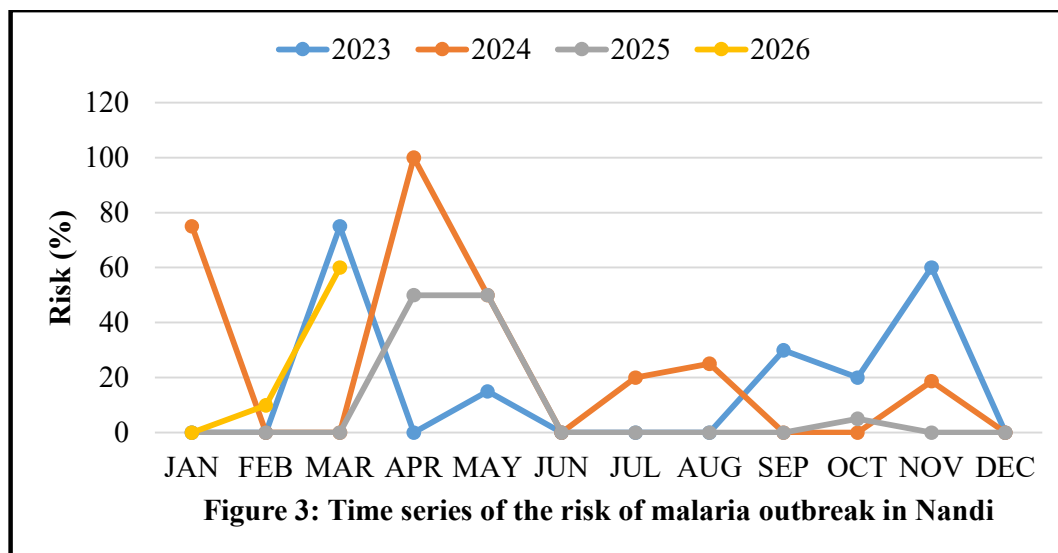


1.3 Malaria epidemic early prediction system for Nandi

The maximum temperature in Nandi indicates a decrease from 24.4°C in February 2026 to 23.8°C in March 2026. This observation in March 2026 for Nandi was *positive (0.8) above the long term mean of the month*. Cumulative Rainfall increased from 239.3mm in February 2026 to 395.2mm in March 2026. **The additive model percentage risk is 60%.**

Box 3:
For Nandi, epidemic threshold level is **20%**.

Hence, there is a **high risk** of malaria outbreak in the months of April and May 2026. (See Figure 3)



3. Disclaimer

The information presented in this bulletin is based on [predictive models and observed climate data](#), which are subject to change. While every effort has been made to ensure the accuracy and reliability of the data, the following should be noted.

Public Health Advisory: This bulletin is intended for informational purposes only. It should not be used as the sole basis for public health decisions. Local health authorities should be consulted for actionable guidance and preventive measures against malaria.

Continuous Monitoring: Malaria transmission dynamics are influenced by numerous factors, including temperature, rainfall, and human behaviour. Continuous monitoring and updates to the predictive models are essential for accurate assessments.

Updates: This bulletin reflects data and predictions as of March 2026. A new update will be issued in the month of May 2026.

For: Ag DIRECTOR, KENYA METEOROLOGICAL DEPARTMENT