

Republic of Kenya



KENYA METEOROLOGICAL
DEPARTMENT

Republic of Kenya



MINISTRY OF HEALTH



MALARIA EPIDEMIC EARLY WARNING PREDICTION SYSTEM FOR WESTERN KENYA HIGHLANDS FOR MAY 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 May to June 2026 indicates that there is a **high overall risk of 30.0% chance of Malaria epidemic in Nandi, a low risk of 22.7% chance of malaria epidemic in Kakamega and a lower risk of 0.0% chance of malaria epidemic in Kisii** during the forecast period.

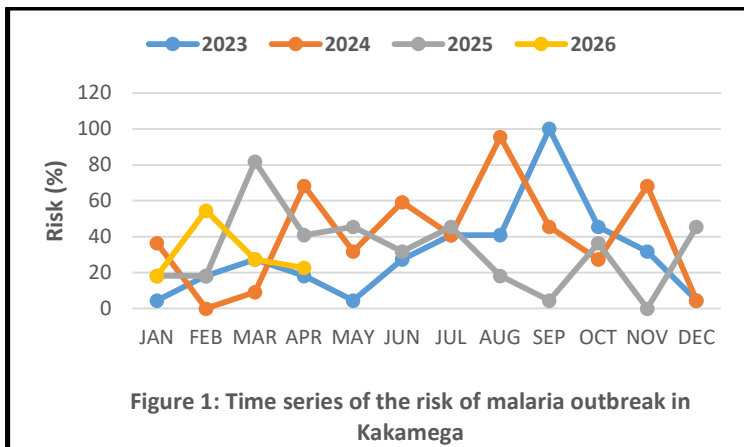
1. Model Outputs

1.1 Malaria epidemic early prediction system for Kakamega

The observed climate data for April 2026 indicates an increase in the average maximum temperature from 27.7°C in March 2026 to 28.6°C in April 2026. This observation in April 2026 *was positive (1.3) above the long term mean of the month*. Rainfall decreased from 339.8mm in March 2026 to 250.0mm in April 2026. **The additive model percentage risk is 22.7%.**

Box 1:
For Kakamega, the epidemic threshold level is 30%.

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

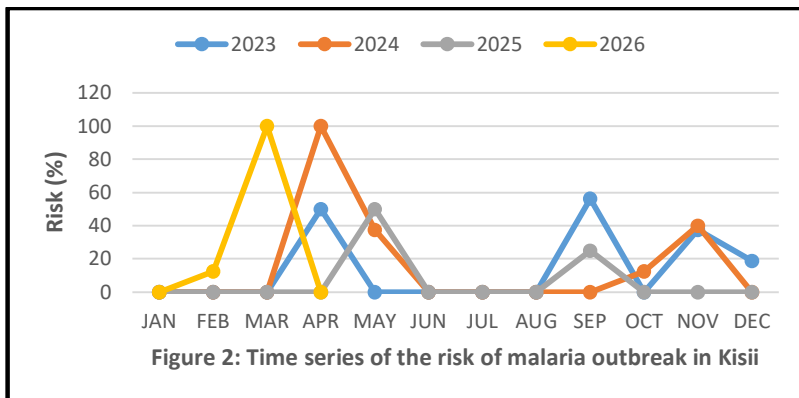


1.2 Malaria epidemic early prediction system for Kisii

The observed climate data for Kisii for April 2026 indicates a decrease in average maximum temperature from 25.4°C in March 2026 to 25.3°C in April 2026. This observation in April 2026 was *negative (-0.2) below the long term mean of the month*. Rainfall decreased from 514.0mm in March 2026 to 214.9mm in April 2026. **The model output risk is 0%.**

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

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

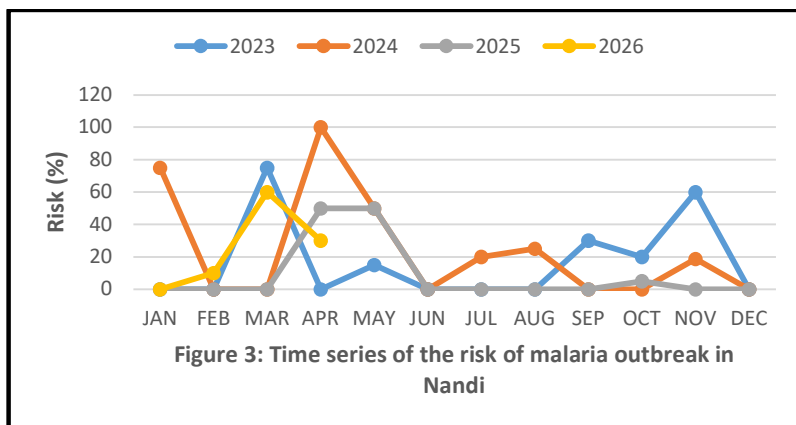


1.3 Malaria epidemic early prediction system for Nandi

The maximum temperature in Nandi indicates an increase from 23.8°C in March 2026 to 24.5°C in April 2026. This observation in April 2026 for Nandi was *positive (1.7) above the long term mean of the month*. Cumulative Rainfall decreased from 295.2mm in March 2026 to 334.9mm in April 2026. **The additive model percentage risk is 30%.**

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

Hence, there is a **high risk** of malaria outbreak in the months of May and June 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 April 2026. A new update will be issued in the month of June 2026.

For: Ag DIRECTOR GENERAL, KENYA METEOROLOGICAL SERVICE AUTHORITY