

Weekly Weather Outlook for Nairobi County

Nairobi County

Week 3, 2026 (January 19 - January 25, 2026)

Data Source: GFS v15.1
Model Run: January 18, 2026
Generated: January 18, 2026
System Version: 1.0.0

This report is generated from automated weather forecast data. Ward-level maps are derived from spatial aggregation of global forecasts for planning purposes only. Contact the local meteorological office for official updates and warnings.

Executive Summary

Weekly Narrative Summary

This week's weather outlook for Nairobi County indicates a period of moderate rainfall activity with generally stable temperature conditions. The forecast shows typical January weather patterns, with no extreme events anticipated.

Temporal Breakdown

Early Week (Days 1-2):

Monday and Tuesday will see light to moderate rainfall, with temperatures ranging from 19°C to 27°C. Winds will be light from the northeast.

Mid Week (Days 3-4):

Wednesday and Thursday are expected to have the highest rainfall intensity, with some areas receiving up to 15mm per day. Temperatures will remain stable, with highs around 26°C.

Late Week (Days 5-7):

Friday through Sunday will see a gradual decrease in rainfall activity, with mostly light showers. Temperatures will remain consistent, and winds will continue from the northeast.

Variable-Specific Details

Rainfall:

Rainfall will be distributed across the county, with northern and eastern wards receiving slightly higher amounts. Most areas will experience 5-10mm per day, with peak intensities on Wednesday and Thursday.

Temperature:

Temperatures will remain within normal ranges for January. Daytime highs will be around 26-28°C, while nighttime lows will drop to 18-20°C. No significant temperature anomalies are expected.

Wind:

Wind speeds will be generally light, averaging 10-15 km/h, with occasional gusts up to 25 km/h. The dominant wind direction will be from the northeast throughout the week.

Humidity:

Relative humidity will range from 60-80% during the day, increasing to 85-95% during nighttime hours, typical for this time of year.

Spatial Variations

Spatial variations across the county are expected to be moderate. Northern and eastern wards, including Kasarani and Embakasi, may receive slightly higher rainfall amounts. Western wards, such as Westlands and Dagoretti, may experience slightly lower amounts. Temperature variations across wards will be minimal, typically within 1-2°C.

Rainfall Outlook

Total Weekly Rainfall: 45.2 mm | Rainy Days: 6 | Max Daily Intensity: 12.3 mm

Rainfall activity this week will be moderate, with the highest intensity expected on Wednesday and Thursday. Most wards will receive between 40-50mm of total rainfall, which is slightly above normal for this time of year. The distribution will be relatively even across the county, with northern and eastern wards receiving slightly higher amounts. The week will end with lighter rainfall activity, providing a dry period on Saturday and Sunday.

Top Wards by Rainfall

Ward	Total Rainfall
Kasarani	52.3 mm
Embakasi	48.7 mm
Makadara	46.2 mm

Temperature Outlook

Mean Weekly Temperature: 24.8°C | Range: 18.5°C - 28.3°C

Hottest Ward: Kasarani (28.5°C)

Coolest Ward: Westlands (19.1°C)

Temperature conditions this week will be stable and within normal ranges for January. Daytime highs will range from 27-28°C, providing comfortable conditions for outdoor activities. Nighttime lows will drop to 18-20°C, requiring light layers for early morning and evening activities. The temperature range of approximately 9-10°C between day and night is typical for this time of year. No significant temperature anomalies or heat stress conditions are expected.

Wind Outlook

Mean Wind Speed: 14.2 km/h | Max Gust: 25.4 km/h | Dominant Direction: NE

Wind conditions this week will be generally light to moderate, with mean speeds around 14 km/h. The dominant wind direction will be from the northeast throughout the week. Peak wind speeds are expected on Wednesday, with gusts up to 25 km/h in some areas. These conditions are typical for January and pose no significant concerns for outdoor activities or infrastructure.

Ward-Level Visualizations

Rainfall Distribution

Resolution: 300 DPI | Projection: UTM Zone 37N, EPSG:32637

Temperature Distribution

Resolution: 300 DPI | Projection: UTM Zone 37N, EPSG:32637

Extreme Values and Highlights

Highest Single Day Rainfall: Kasarani - 15.8 mm on January 21, 2026

Highest Weekly Rainfall: Kasarani - 52.3 mm

Hottest Day: Kasarani - 28.5°C on January 22, 2026

Coolest Night: Westlands - 18.5°C on January 19, 2026

Strongest Wind Gust: Kasarani - 26.1 km/h on January 21, 2026

Risk Indicators

Flood Risk Wards:

- **Kasarani (MODERATE):** Higher than average rainfall expected, with total weekly accumulation above 50mm
- **Embakasi (LOW):** Moderate rainfall expected, but drainage systems should handle the expected amounts

Impacts and Advisories

Agricultural Advisories

Rainfall Impact: Moderate rainfall this week provides good conditions for crop growth and soil moisture replenishment. Farmers should take advantage of the mid-week peak rainfall for planting activities.

Temperature Effects: Stable temperature conditions are favorable for most crops. No temperature stress expected for typical agricultural activities.

Optimal Timing: Optimal timing for planting and field activities: Early morning (6-9 AM) or late afternoon (4-6 PM) to avoid peak rainfall periods on Wednesday and Thursday.

General Public Advisories

Travel Conditions: Road conditions should remain generally good, with minor delays possible during peak rainfall periods on Wednesday and Thursday. Motorists should exercise caution during heavy showers.

Outdoor Activities: Outdoor activities are generally favorable, with best conditions expected in the early morning and late afternoon. Avoid outdoor activities during peak rainfall periods (Wednesday-Thursday afternoon).

Safety Precautions: No significant safety concerns. Standard precautions for moderate rainfall conditions apply. Be aware of potential localized flooding in low-lying areas, particularly in Kasarani and Embakasi wards.

Data Sources and Methodology

Forecast Model: GFS v15.1 | Grid Resolution: 0.25° | Forecast Horizon: 7 days

Aggregation Method: point-in-polygon | Grid Points: 185

Limitations and Uncertainties

GFS model forecasts have inherent uncertainty, particularly beyond 3-5 days. Forecast accuracy decreases with increasing forecast lead time.

Ward-level forecasts are derived from 0.25° grid data through spatial aggregation. Local variations may differ from ward-level averages.

Metadata and Disclaimers

This automated weather report is generated from GFS forecast data and is intended for planning purposes only. Ward-level forecasts are derived from spatial aggregation of global model data and should not be considered as official weather forecasts. For official weather warnings and updates, please contact the Kenya Meteorological Department. The system and data providers assume no liability for decisions made based on this information.