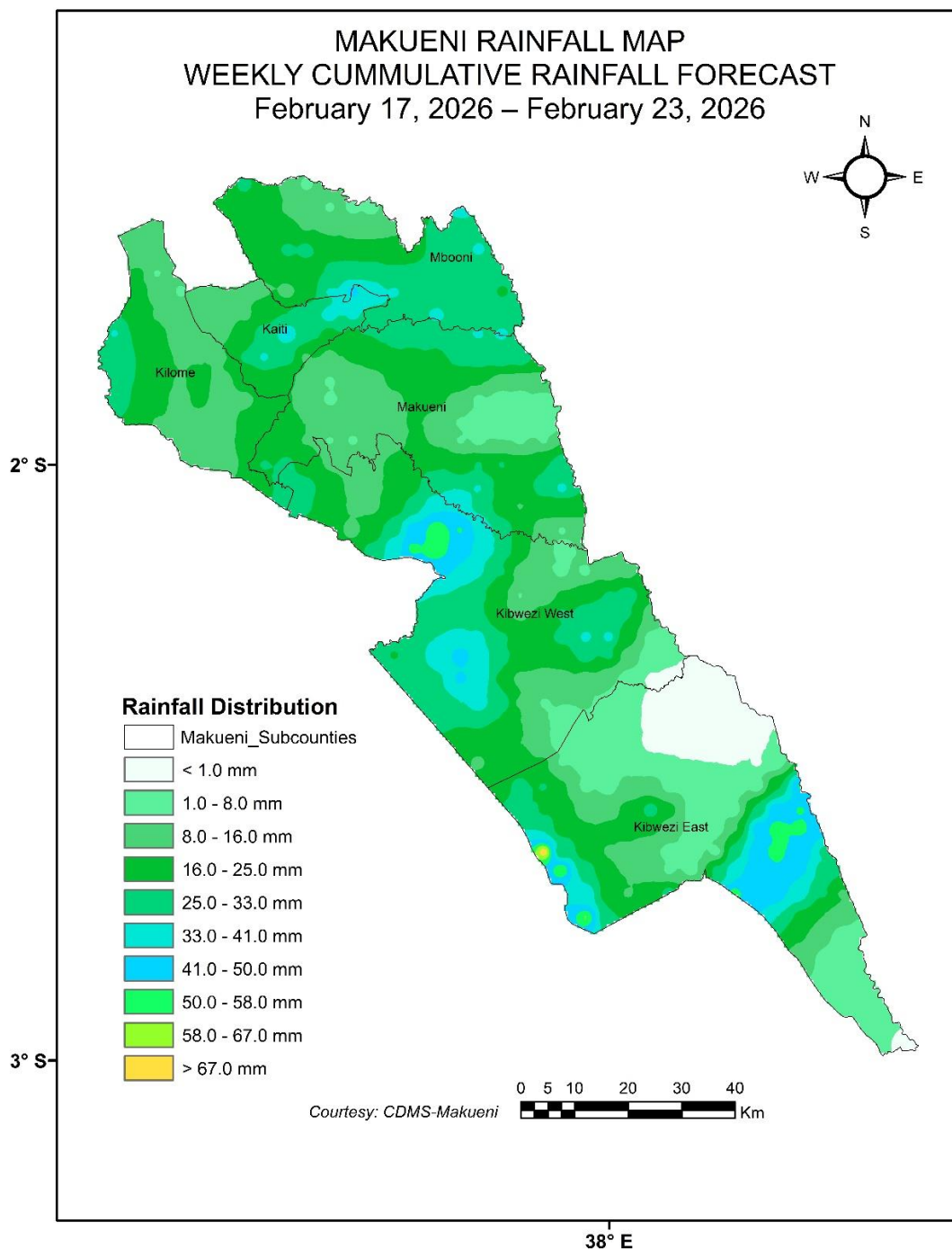


Weekly Weather Forecast for Makueni County

Validity: February 17, 2026 – February 23, 2026



Makueni Weekly Cumulative Rainfall Forecast Map

Content: Spatial distribution of cumulative rainfall amounts across subcounties, using a multi-category rainfall intensity legend.

Note:

Dry day <1mm.	Light rains (1-5 mm).	Moderate rains (5-20 mm).	Heavy rains (20-50 mm).	Very Heavy rains > 50 mm.
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Makueni County Weekly Cumulative Rainfall Forecast

1. General Overview

During the period February 17–23, 2026, Makueni County is expected to experience **moderate to heavy rainfall across several wards**, with localized pockets of **heavy rainfall (20–50 mm) to very heavy rainfall (>50 mm)** in parts of the southern and southeastern lowlands. The forecast indicates a generally active rainfall week with cumulative totals largely ranging between **16 mm and 50 mm**, and isolated zones exceeding **50 mm**.

A **south–southeastern rainfall enhancement corridor** is evident, particularly across lower Kibwezi East and adjoining wards. Moderate rainfall dominates the central belt (Nzaui/Kilili/Kalamba, Mbooni, Kaiti, and parts of Makueni Subcounty), while relatively lower but still meaningful totals are projected in parts of the northwestern uplands.

- **Highest totals:** Southeastern wards (Mito Andei, Ivingoni/Nzambani, parts of Kikumbulyu South and Nguumo).
- **Moderate–heavy totals:** Central and southern interior wards (Makindu, Masongaleni, Emali/Mulala, Kalawa).
- **Lower–moderate totals:** Northern uplands (Mbooni, Tulimani, Kee, Kithungo/Kitundu).

Overall classification:

- Predominantly **Moderate to Heavy rainfall**,
- Isolated **Very Heavy rainfall pockets**,
- No widespread dry conditions expected.

2. Subcounty and Ward-Level Forecast Summary

Subcounty	Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Mbooni	Tulimani	16–25 mm	Moderate	Supports planting; good soil moisture recharge
Mbooni	Mbooni	16–25 mm	Moderate	Favorable for crop establishment
Mbooni	Kithungo/Kitundu	16–25 mm	Moderate	Scattered steady showers
Kaiti	Ukia	16–33 mm	Moderate– Heavy	Enhanced vegetative growth
Kaiti	Kee	16–25 mm	Moderate	Steady rainfall expected
Kilome	Kithuki/Kithungo	16–25 mm	Moderate	Supports pasture regeneration
Kilome	Kasikeu	25–33 mm	Heavy	Potential localized runoff

Makueni	Emali/Mulala	25–41 mm	Heavy	Good water recharge; isolated thunder
Makueni	Mavindini	25–33 mm	Heavy	Adequate planting moisture
Makueni	Kitise/Kithuki	25–41 mm	Heavy	Possible brief waterlogging
Nzaui/Kilili/Kalamba	Kalamba	25–33 mm	Heavy	Favorable cropping conditions
Makindu	Makindu	33–50 mm	Heavy	Intense rainfall episodes likely
Kibwezi West	Masongaleni	25–41 mm	Heavy	Enhanced soil moisture recharge
Kibwezi West	Nguumo	33–50 mm	Heavy	Short-term surface runoff possible
Kibwezi East	Kikumbulyu South	33–50 mm	Heavy	High recharge potential
Kibwezi East	Ivingoni/Nzambani	50–58 mm	Very Heavy	Risk of localized flooding
Kibwezi East	Mito Andei	50–67 mm	Very Heavy	Prolonged rainfall episodes; possible waterlogging
Kibwezi East	Thange	33–50 mm	Heavy	Supports rangeland recovery

3. Summary by Rainfall Intensity

Rain Intensity	Rainfall Range (mm)	Wards Affected
Dry	<1 mm	None significant
Light	1–5 mm	None dominant
Moderate	5–20 mm	Tulimani, Mbooni, Kee, Kithungo/Kitundu
Heavy	20–50 mm	Ukia, Kasikeu, Emali/Mulala, Kalamba, Makindu, Masongaleni, Nguumo, Kikumbulyu South, Thange
Very Heavy	>50 mm	Ivingoni/Nzambani, Mito Andei

4. Key Takeaways

1. Southern and Southeastern Rainfall Hotspot

Kibwezi East (Mito Andei, Ivingoni/Nzambani) is forecast to receive **very heavy rainfall (>50 mm)**.

- Potential impacts: localized flooding, waterlogging in low-lying zones, increased river discharge, and temporary transport disruptions.

- Agricultural implication: strong soil moisture recharge beneficial for crops and pasture, but drainage management may be required.

2. Central Belt – Productive Rainfall Zone

Makindu, Kalamba, Emali/Mulala, and Masongaleni will receive **heavy rainfall (25–50 mm)**.

- Supports planting and crop establishment.
- Good pasture regeneration.
- Enhanced water harvesting potential.

3. Northern Uplands – Moderate, Well-Distributed Showers

Mbooni and Tulimani areas will receive **moderate rainfall (16–25 mm)**.

- Sufficient for early planting with good agricultural practices and soil moisture replenishment.
- Low flood risk.

4. County-Wide Implication

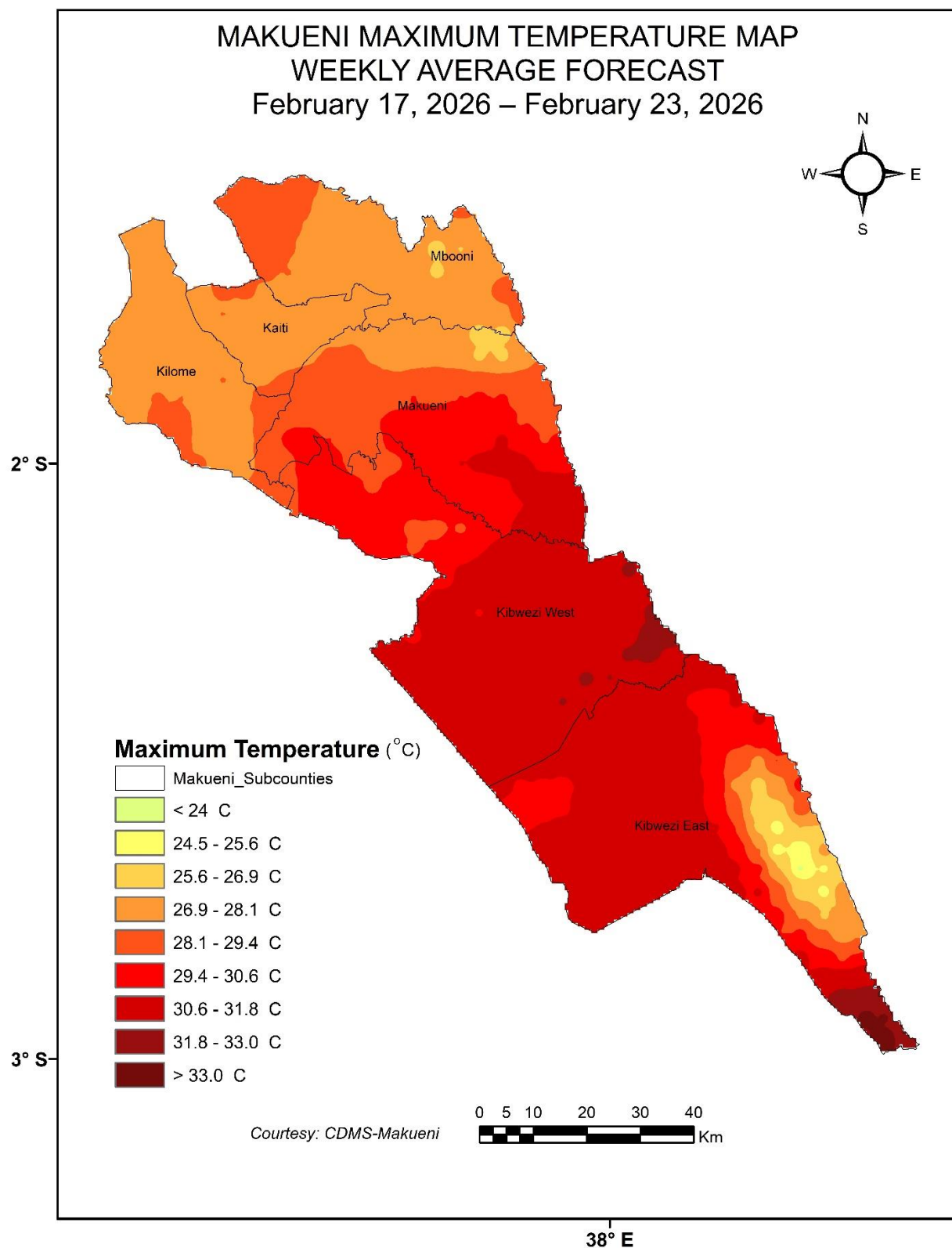
The week reflects an **active rainfall phase** across Makueni County with no widespread dry zones.

- **Agriculture:** Favorable for crop germination and vegetative growth.
- **Hydrology:** Surface runoff and minor flooding possible in southeastern lowlands.
- **Pastoral systems:** Improved forage and water availability expected.

Overall Outlook

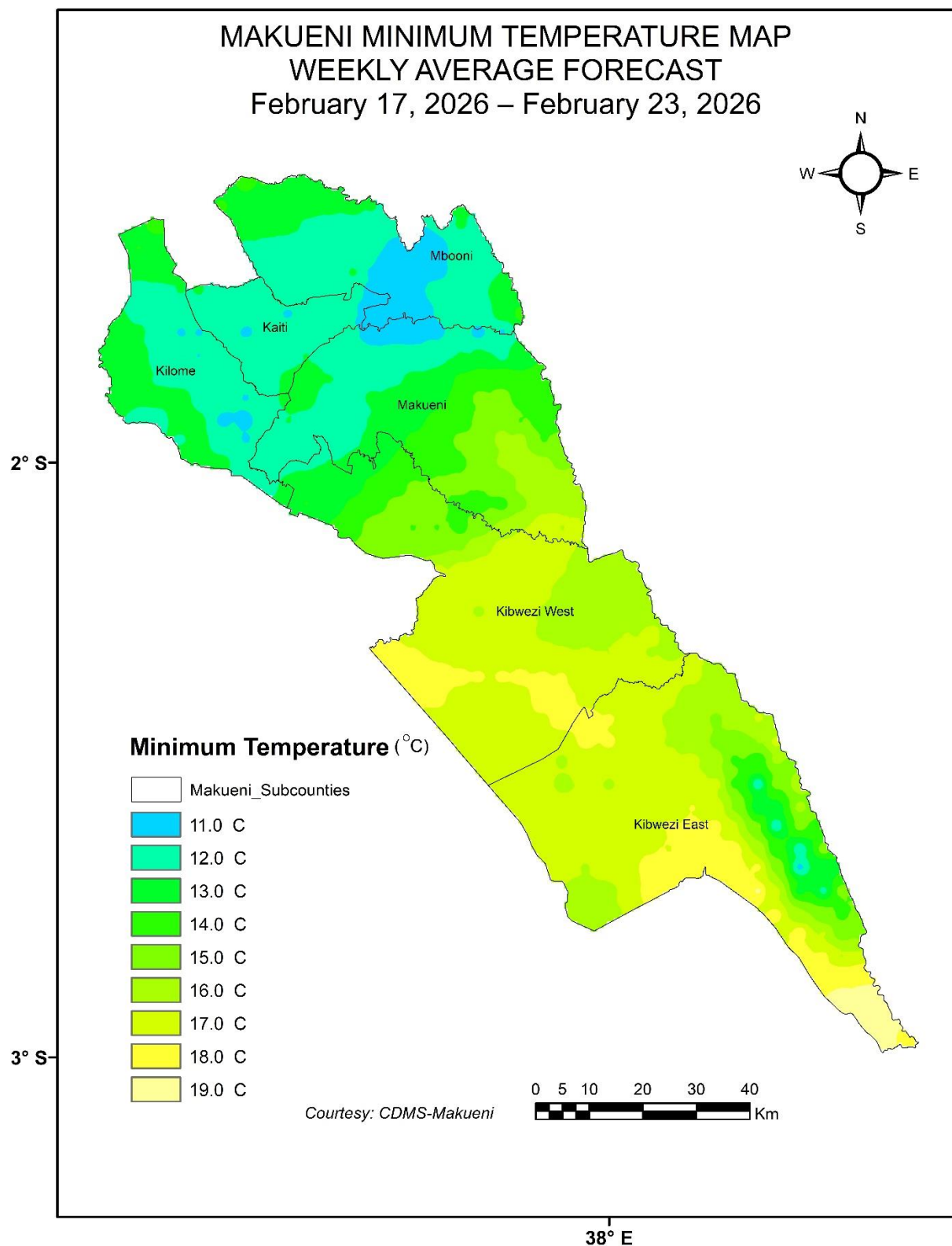
Makueni County will experience a generally productive rainfall week, with the **southern corridor acting as the rainfall nucleus**, moderate rainfall across central zones, and adequate though lower totals in the northern uplands.

The spatial pattern supports agricultural activities while warranting localized flood monitoring in the southeastern wards.



Makueni Weekly Average Maximum Temperature Forecast Map

Content: Spatial variation of forecasted weekly average maximum temperatures across subcounties.



Makueni Weekly Average Minimum Temperature Forecast Map

Content: Spatial variation of forecasted weekly average minimum temperatures across subcounties.

Makueni County Weekly Temperature Forecast Summary

1. General Overview

During the period **17–23 February 2026**, Makueni County is forecast to experience **hot to very hot daytime conditions**, particularly across the southern and southeastern lowlands, while the northern and northwestern highlands remain relatively cooler.

Maximum Temperature (Daytime)

- Range: **26°C to >33°C**
- Northern highlands (Mbooni, Tulimani, Kee): **26–29°C (Warm)**
- Central belt (Wote, Kalawa, Ukia, Mavindini): **28–31°C (Warm to Hot)**
- Southern lowlands (Makindu, Kibwezi West, Kibwezi East): **31–34°C+ (Hot to Very Hot)**

A pronounced **northwest–southeast thermal gradient** is evident, with temperatures increasing toward the low-lying southeastern corridor.

Minimum Temperature (Nighttime)

- Range: **11°C to 19°C**
- Northern highlands: **11–14°C (Cold to Cool)**
- Central zones: **14–17°C (Cool to Mild)**
- Southern lowlands: **17–19°C (Mild to Warm)**

This pattern reflects **altitude-controlled temperature modulation**, where elevated terrain promotes nocturnal cooling while lowlands retain heat overnight.

Implications

- **Agriculture:** Increased evapotranspiration in southern wards; irrigation demand likely to rise.
- **Livestock:** Heat stress risk in Kibwezi East and West during peak afternoon hours.
- **Water resources:** Higher daytime temperatures may accelerate surface water loss.
- **Human comfort:** Warm nights in the southeast reduce nocturnal cooling recovery.

2. Subcounty and Ward-Level Temperature Summary

Subcounty	Ward	Max Temp (°C)	Max Category	Min Temp (°C)	Min Category	Remarks
Mbooni	Tulimani	26–28	Warm	11–13	Cold–Cool	Mild days, cool nights; favorable for horticulture
Mbooni	Mbooni	27–29	Warm	12–14	Cool	Comfortable diurnal range

Kaiti	Ukia	28–30	Warm	13–15	Cool	Moderate heat; good crop growth
Kaiti	Kee	27–29	Warm	12–14	Cool	Mild thermal stress
Kilome	Kasikeu	28–31	Warm– Hot	14–16	Cool– Mild	Transitional thermal zone
Makueni	Wote	29–31	Hot	15–17	Mild	Warm afternoons; moderate nights
Makueni	Mavindini	29–32	Hot	15–17	Mild	Elevated evapotranspiration
Nzaui/Kilili/Kalamba	Kalamba	29–31	Hot	15–17	Mild	Warm days, moderate nights
Makindu	Makindu	31–33	Hot	17–18	Mild	Intense afternoon heat
Kibwezi West	Masongaleni	31–34	Hot–Very Hot	17–19	Mild– Warm	High heat load; livestock stress risk
Kibwezi West	Nguumo	32–34	Very Hot	18–19	Warm	Limited nighttime cooling
Kibwezi East	Kikumbulyu South	31–34	Hot–Very Hot	17–19	Mild– Warm	Elevated evapotranspiration
Kibwezi East	Ivingoni/Nzambani	32–35	Very Hot	18–19	Warm	Extreme daytime heat possible
Kibwezi East	Mito Andei	31–33	Hot	17–18	Mild	Sustained heat; moisture stress risk
Kibwezi East	Thange	32–35	Very Hot	18–19	Warm	High diurnal heat retention



Maximum Temperature Summary by Category

Category	Range (°C)	Interpretation	Wards Affected
Cool	≤25	Mild daytime heat	None significant
Warm	26–29	Comfortable; suitable for crops	Tulimani, Mbooni, Kee, Ukia
Hot	30–33	Intense afternoon heat	Wote, Kalamba, Makindu, Mavindini, Kikumbulyu South
Very Hot	≥34	Extreme daytime heat	Nguumo, Ivingoni/Nzambani, Thange, parts of Masongaleni



Minimum Temperature Summary by Category

Category	Range (°C)	Interpretation	Wards Affected
Cold	≤12	Chilly nights; dew possible	Tulimani (higher elevations)
Cool	13–15	Mild nights; comfortable	Mbooni, Kee, Ukia
Mild	16–18	Favorable for growth	Wote, Kalamba, Makindu
Warm	≥19	Warm nights; limited cooling	Nguumo, Ivingoni/Nzambani, Thange

4. Key Takeaways

1. Southern Lowlands – Highest Heat Load

Kibwezi East and Kibwezi West (Nguumo, Thange, Ivingoni/Nzambani) are forecast to experience **very hot daytime temperatures ($\geq 34^{\circ}\text{C}$)** and **warm nights ($18\text{--}19^{\circ}\text{C}$)**.

- Elevated evapotranspiration rates.
- Increased irrigation demand.
- Heat stress risk for livestock and rain-fed crops.

2. Northern Highlands – Cooler Thermal Regime

Mbooni and Tulimani remain comparatively cooler with:

- Daytime: **$26\text{--}29^{\circ}\text{C}$ (Warm)**
- Nighttime: **$11\text{--}14^{\circ}\text{C}$ (Cold–Cool)**
- Favorable conditions for horticultural crops and reduced heat stress.

3. Central Transitional Belt

Wote, Kalamba, Ukia, and Mavindini exhibit:

- **Hot afternoons ($29\text{--}32^{\circ}\text{C}$)**
- **Mild nights ($15\text{--}17^{\circ}\text{C}$)**
- Balanced but moisture-demanding conditions for agriculture.

4. County-Wide Thermal Pattern

A clear **altitude-controlled gradient** dominates:

- Cooler uplands (northwest).
- Intensifying heat toward southeastern lowlands.
- Moderate diurnal contrast in highlands; reduced nighttime cooling in lowlands.

Overall Temperature Outlook

Makueni County will experience **generally hot daytime conditions with cooler highland refuges and very hot southeastern pockets**. Nighttime temperatures range from chilly highland lows to warm lowland minima.

The maximum–minimum contrast remains strongest in upland areas, while southern lowlands maintain sustained heat throughout the diurnal cycle. These conditions require attention to **irrigation scheduling, livestock shade provision, and water resource management** during the forecast period.

NB: This forecast should be used with the 24-hour, 5-day, 7-day, and monthly outlooks, special forecasts, alerts, and regular updates/advisories issued by this department.