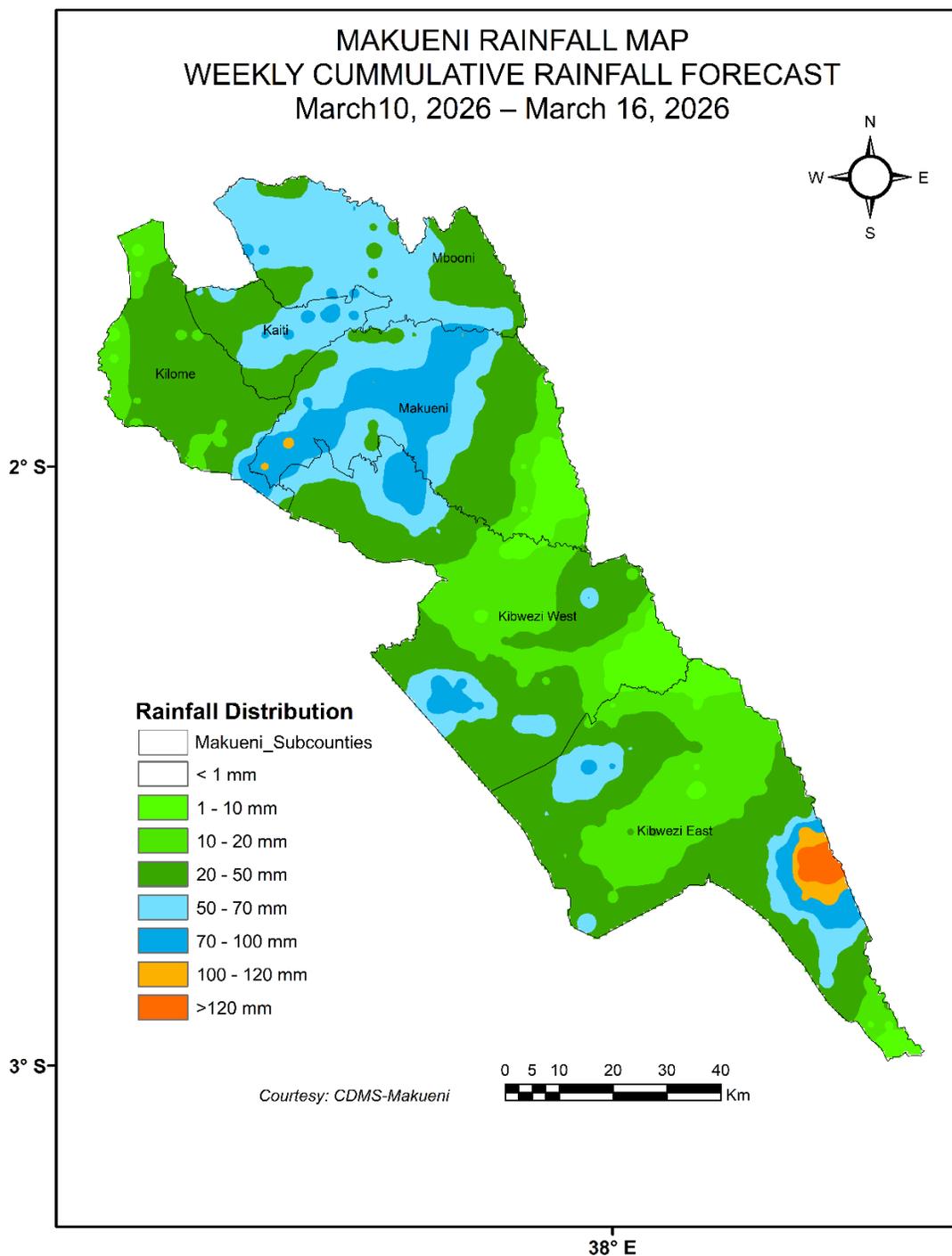


Weekly Weather Forecast for Makueni County

Validity: March 10, 2026 – March 16, 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 Summary

Period: 10 March – 16 March 2026

1. General Overview

Analysis of the cumulative rainfall forecast map indicates **spatially variable rainfall distribution across the county**, characterized by **localized heavy rainfall pockets in the southern and southeastern lowlands and moderate rainfall across central zones**, while **northern upland areas experience relatively light rainfall activity**.

The weekly rainfall forecast generally ranges from **<1 mm to >70 mm**, forming a **north–south rainfall gradient** influenced by regional moisture convergence and topographic effects.

Rainfall Category Highlights

Rainfall Category	Example Ward	Expected Condition
Dry (<1 mm)	No Ward	Minimal rainfall activity expected
Light Rain (1–5 mm)	Kitise/ Kithuki	Light showers likely
Moderate Rain (5–20 mm)	Mukaa	Intermittent showers possible
Heavy Rain (20–50 mm)	Tulimani	Periods of intense rainfall possible
Very Heavy Rain (>50 mm)	Mtito Andei	Localized heavy downpours likely

Spatial Distribution

Zone	Rainfall Pattern
Northern Highlands (Mbooni, Kaiti)	Light to moderate rainfall
Central Midlands (Wote, Mukaa, Kasikeu)	Moderate rainfall
Southern Lowlands (Makindu–Thange–Mtito Andei)	Heavy to very heavy rainfall

Highest Totals

- Mtito Andei, Thange, and southeastern Kibwezi East wards may experience >50 mm.

Lowest Totals

- Mukaa and parts of northern Kilome may receive minimal rainfall (<5 mm).

Areas with Limited Activity

- Isolated pockets within northern uplands and western Kilome **may** remain mostly dry (<1 mm).

2. Subcounty and Ward-Level Forecast Summary

Subcounty	Ward	Rainfall (mm)	Rainfall Category	Remarks
Makueni	Kitise/Kithuki	50–70	Very Heavy	Significant rainfall concentration zone
	Kathonzweni	50–70	Very Heavy	Persistent rainfall possible
	Mavindini	20–50	Heavy	Moderate rainfall accumulation
	Muvau/Kikumini	20–50	Heavy	Periodic rainfall events
	Wote	20–50	Heavy	Consistent rainfall expected

	Mbitini	50–70	Very Heavy	High rainfall pocket
	Nzakika	50–70	Very Heavy	Possible localized runoff

Subcounty	Ward	Rainfall (mm)	Rainfall Category	Remarks
Kibwezi East	Masongaleni	10–20	Moderate	Scattered showers
	Ivinza	20–50	Heavy	Moderate rainfall likely
	Mtito Andei	>100	Extreme	Major rainfall hotspot
	Thange	50–70	Very Heavy	Intense rainfall events

Subcounty	Ward	Rainfall (mm)	Rainfall Category	Remarks
Kibwezi West	Makindu	10–20	Moderate	Moderate rainfall
	Emali/Mulala	50–70	Very Heavy	Rainfall convergence area
	Nguu/Masumba	50–70	Very Heavy	Sustained rainfall possible
	Nguumo	50–70	Very Heavy	High rainfall concentration
	Kikumbulyu North	50–70	Very Heavy	Persistent rainfall
	Kikumbulyu South	50–70	Very Heavy	Potential runoff

Subcounty	Ward	Rainfall (mm)	Rainfall Category	Remarks
Kilome	Kasikeu	20–50	Heavy	Moderate rainfall
	Kiima Kiu	20–50	Heavy	Moderate rainfall
	Mukaa	20–50	Heavy	Moderate rainfall

Subcounty	Ward	Rainfall (mm)	Rainfall Category	Remarks
Mbooni	Tulimani	50–70	Very Heavy	Strong rainfall influence
	Kiteta/Kisau	50–70	Very Heavy	High rainfall pocket
	Kithungo/Kitundu	20–50	Heavy	Moderate rainfall
	Kalawa	10–20	Moderate	Light-moderate rainfall
	Mbooni	50–70	Very Heavy	Significant rainfall
	Kako/Waia	20–50	Heavy	Moderate rainfall

Subcounty	Ward	Rainfall (mm)	Rainfall Category	Remarks
Kaiti	Kilungu	50–70	Very Heavy	High rainfall concentration
	Ukia	50–70	Very Heavy	Persistent rainfall
	Ilima	20–50	Heavy	Moderate rainfall
	Kee	20–50	Heavy	Moderate rainfall

3. Summary by Rainfall Intensity

Rain Intensity	Rainfall Range (mm)	All Wards Affected
Dry Day	<1	Isolated pockets of in few wards but minimal
Light Rain	1–5	Isolated pockets of in few wards but minimal
Moderate Rain	5–20	Tulimani, Kiteta/Kisau, Kalawa, Wote, Kilungu, Ukia, Ilima, Kasikeu
Heavy Rain	20–50	Makindu, Thange, Nguumo, Kikumbulyu North, Kikumbulyu South, Masongaleni
Very Heavy Rain	>50	Mtito Andei

4. Key Takeaways

1. Southern Rainfall Hotspot

The southern corridor of the county (Kibwezi East and parts of Kibwezi West) is expected to experience the highest rainfall totals, particularly:

- Mtito Andei (>50 mm)

- **Thange and Nguumo (30–50 mm)**

These areas may experience:

- localized flooding,
- temporary waterlogging,
- rapid runoff in low-lying zones.

2. Moderate Rainfall Belt

The **central midland areas including Wote, Ukia, and Muvau/Kikumini** are expected to receive **moderate rainfall (10–20 mm)** which is generally favorable for:

- crop establishment,
- soil moisture replenishment,
- pasture regeneration.

3. Light Rainfall Zones

The **northern and western uplands (Mukaa, Kee, Kako/Waia)** will likely receive **light rainfall (1–10 mm)**.

Implications include:

- limited soil moisture recharge,
- slower vegetation response.

4. Overall County Pattern

The rainfall distribution follows a **distinct spatial gradient**:

- Northern Highlands → Light Rainfall
- Central Midlands → Moderate Rainfall
- Southern Lowlands → Heavy to Very Heavy Rainfall

This pattern is consistent with **moisture convergence along the southeastern lowland corridor**, which frequently acts as a **rainfall concentration zone during seasonal rain events**.

Makueni County Weekly Temperature Forecast Summary

1. General Overview

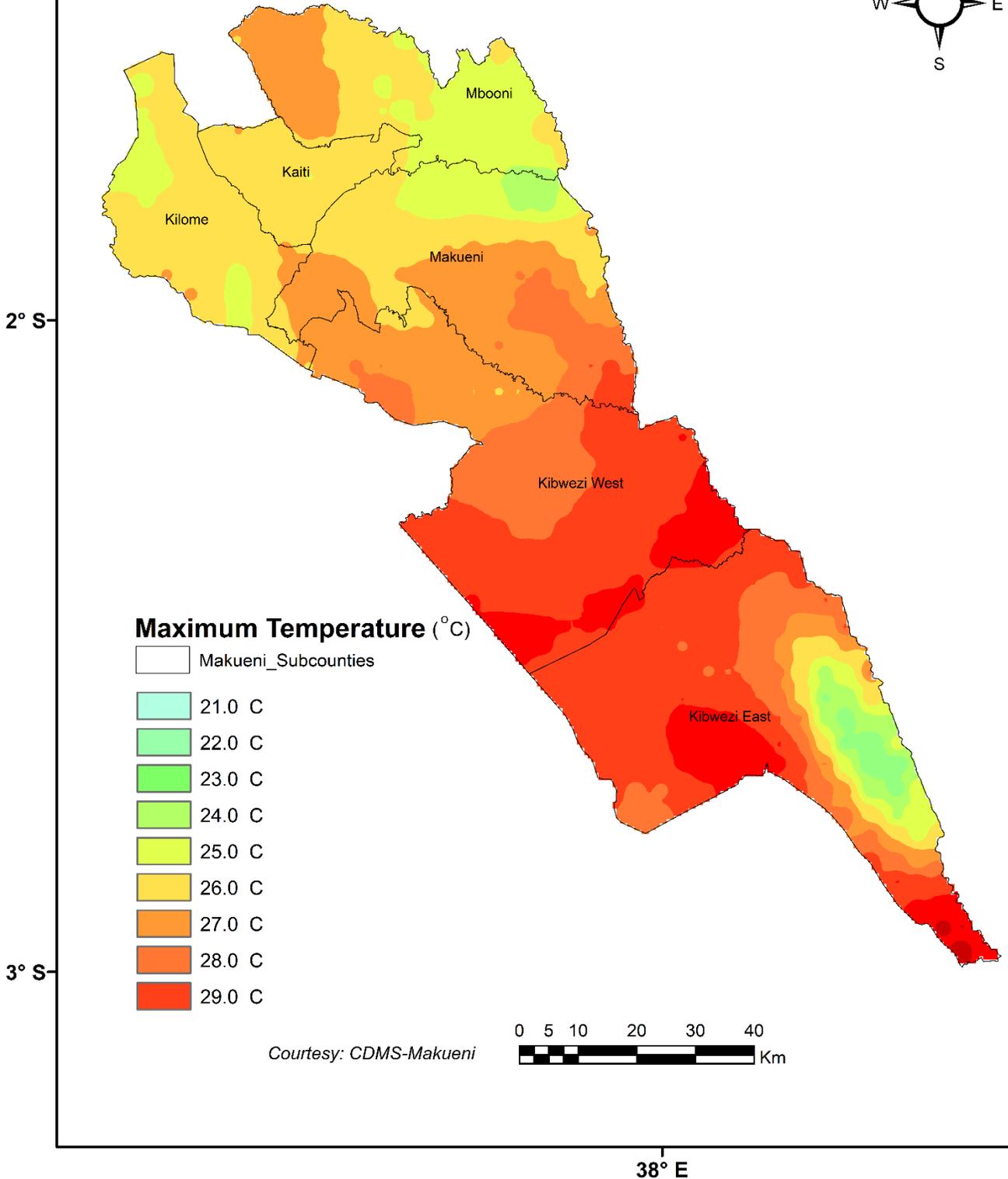
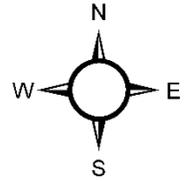
1.1 Daytime (Maximum Temperature) Conditions

Analysis of the ward-level maximum temperature forecast maps indicates a **clear north–south temperature gradient across the county**.

- **Northern highland wards** (Mbooni Hills and surrounding uplands) will experience **relatively cooler daytime temperatures**, ranging between **24°C – 27°C**.
- **Central midland zones** (Wote–Kaiti–Kalawa belt) are forecast to experience **moderately warm daytime conditions**, with temperatures ranging between **26°C – 29°C**.
- **Southern and southeastern lowland wards** (Makindu–Nguumo–Kibwezi corridor) are expected to experience **the highest daytime temperatures**, ranging between **30°C – 34°C**, with isolated pockets approaching **≥34°C** in extreme lowland areas.

These spatial patterns reflect the **county’s topographic influence**, where **elevated zones reduce daytime heating**, while **low-elevation semi-arid zones accumulate greater solar heat**.

MAKUENI MAXIMUM TEMPERATURE MAP WEEKLY AVERAGE FORECAST March 10, 2026 – March 16, 2026

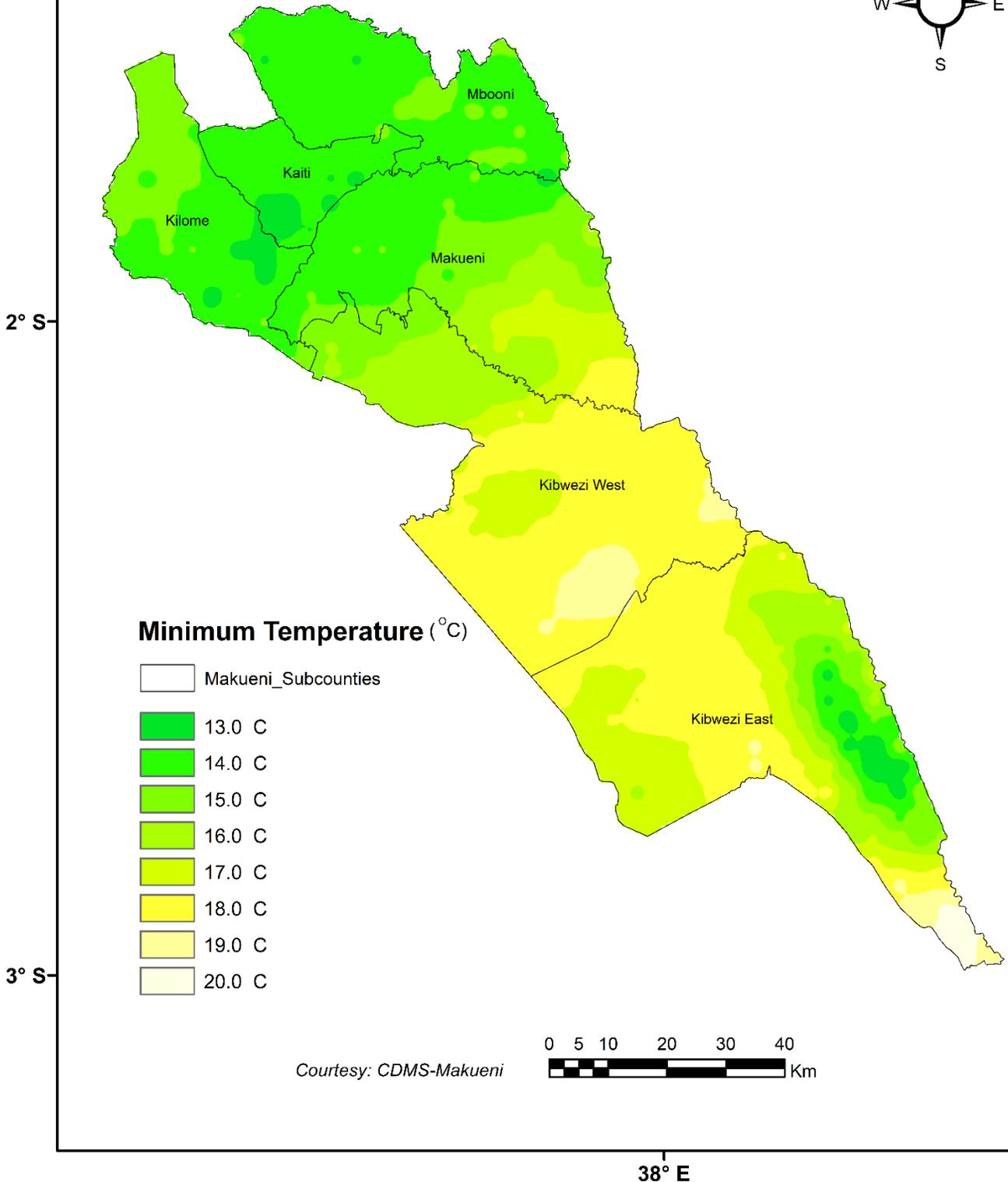
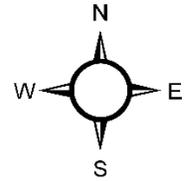


Courtesy: CDMS-Makueni

Makueni Weekly Average Maximum Temperature Forecast Map

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

MAKUENI MINIMUM TEMPERATURE MAP WEEKLY AVERAGE FORECAST March 10, 2026 – March 16, 2026



Courtesy: CDMS-Makueni

Makueni Weekly Average Minimum Temperature Forecast Map

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

1.2 Night-Time (Minimum Temperature) Conditions

Night-time temperatures also exhibit a **similar elevation-driven gradient**:

- **Northern highland wards: 13°C – 15°C** (cool nights).
- **Central transitional wards: 15°C – 17°C** (mild nights).
- **Southern lowlands: 17°C – 20°C** (warm nights with reduced cooling).

The **largest diurnal temperature range (difference between day and night)** is expected in **semi-arid southern wards**, where hot daytime temperatures are followed by moderately warm nights.

1.3 Spatial Temperature Structure

Physiographic Zone	Temperature Characteristics
Northern Highlands (Mbooni region)	Cool days and cool nights
Central Midlands (Wote–Kalawa belt)	Warm days and mild nights
Southern Lowlands (Makindu–Kibwezi corridor)	Hot days and warm nights

2. Ward-Level Temperature Summary

Ward	Max Temp (°C)	Max Category	Min Temp (°C)	Min Category	Remarks
Kilungu	25–27	Warm	14–15	Cool	Cool upland climate
Ukia	26–28	Warm	15–16	Mild	Moderate daytime heat
Ilima	26–28	Warm	15–16	Mild	Mild nights
Kee	25–27	Warm	14–15	Cool	Slightly cooler highland influence

Ward	Max Temp (°C)	Max Category	Min Temp (°C)	Min Category	Remarks
Tulimani	24–26	Warm (cooler highland)	13–14	Cool	Cool upland climate
Kiteta/Kisau	25–27	Warm	14–15	Cool	Mild daytime heat
Kithungo/Kitundu	25–27	Warm	14–15	Cool	Moderate daytime temperatures
Kalawa	26–28	Warm	15–16	Mild	Transitional highland climate
Mbooni	24–26	Warm (cooler highland)	13–14	Cool	Cool nights and mild days
Kako/Waia	25–27	Warm	14–15	Cool	Moderate highland temperatures

Ward	Max Temp (°C)	Max Category	Min Temp (°C)	Min Category	Remarks
Kasikeu	27–29	Warm	16–17	Mild	Moderate conditions

Kiima Kiu	27–29	Warm	16–17	Mild	Warm days; moderate nights
Mukaa	27–29	Warm	16–17	Mild	Slight warming during afternoons

Ward	Max Temp (°C)	Max Category	Min Temp (°C)	Min Category	Remarks
Makindu	31–33	Hot	17–18	Mild	Hot afternoons with warm nights
Emali/Mulala	30–32	Hot	17–18	Mild	Elevated daytime heat
Nguu/Masumba	30–32	Hot	17–18	Mild	High evapotranspiration potential
Nguumo	32–34	Hot–Very Hot	18–19	Warm	Extreme daytime heat risk
Kikumbulyu North	30–32	Hot	17–18	Mild	Hot afternoons
Kikumbulyu South	31–33	Hot	17–19	Mild–Warm	High heat stress risk

Ward	Max Temp (°C)	Max Category	Min Temp (°C)	Min Category	Remarks
Masongaleni	31–33	Hot	17–18	Mild	Hot afternoons; increased evapotranspiration
Ivinnza	30–32	Hot	17–18	Mild	High daytime heat
Mtito Andei	27–29	Warm	15–16	Mild	Moderated temperatures due to vegetation
Thange	31–33	Hot	17–18	Mild	Persistent hot semi-arid conditions

Ward	Max Temp (°C)	Max Category	Min Temp (°C)	Min Category	Remarks
Kitise/Kithuki	28–30	Warm–Hot	16–17	Mild	Warm days with moderate night cooling
Kathonzweni	29–31	Hot	16–18	Mild	Hot afternoons; moderate nights
Mavindini	27–29	Warm	15–17	Mild	Warm conditions; moderate diurnal variation
Muvau/Kikumini	27–29	Warm	16–17	Mild	Warm days and comfortable nights
Wote	27–29	Warm	16–17	Mild	Moderate conditions; favorable for activity
Mbitini	28–30	Warm–Hot	16–17	Mild	Slightly hotter afternoons
Nzakika	28–30	Warm–Hot	16–17	Mild	Warm days; moderate nighttime cooling

Maximum Temperature Summary by Category

Category Range (°C)		Interpretation
Cool	≤25	Mild daytime heat
Warm	26–29	Comfortable
Hot	30–33	Intense afternoon heat
Very Hot	≥34	Extreme daytime heat

Minimum Temperature Summary by Category

Category Range (°C)		Interpretation
Cold	≤12	Chilly nights
Cool	13–15	Mild comfortable nights
Mild	16–18	Moderate nights
Warm	≥19	Limited cooling

5. Key Takeaways

1. Hottest Zones

The **southern lowland wards** (Nguumo, Thange, Makindu, Masongaleni) will experience **the highest daytime temperatures (31–34°C)**, increasing risks of:

- crop moisture stress,
- livestock heat stress,
- elevated evapotranspiration.

2. Cooler Highland Areas

Northern highland wards such as **Tulimani, Mbooni, and Kee** will experience **cooler daytime temperatures (24–27°C)** and **cool nights (13–15°C)**, which are **favorable for horticultural crops**.

3. Transitional Temperature Belt

Central wards including **Wote, Ukia, Kalawa, Mukaa, and Kasikeu** will experience **moderate conditions (26–29°C days and 16–17°C nights)**, providing **generally favorable conditions for agricultural and socio-economic activities**.

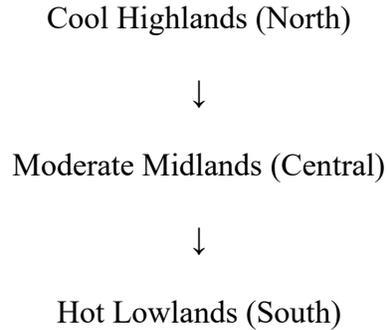
4. Diurnal Temperature Contrast

The **largest day–night temperature contrasts** will occur in **southern semi-arid wards**, which can influence:

- soil moisture evaporation rates,
- crop water demand,
- livestock comfort levels.

5. Overall County Trend

The county will exhibit a **north–south thermal gradient**, characterized by:



This gradient reflects **elevation differences, land cover characteristics, and semi-arid climatic influences** typical of the lower eastern region of Kenya.

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.