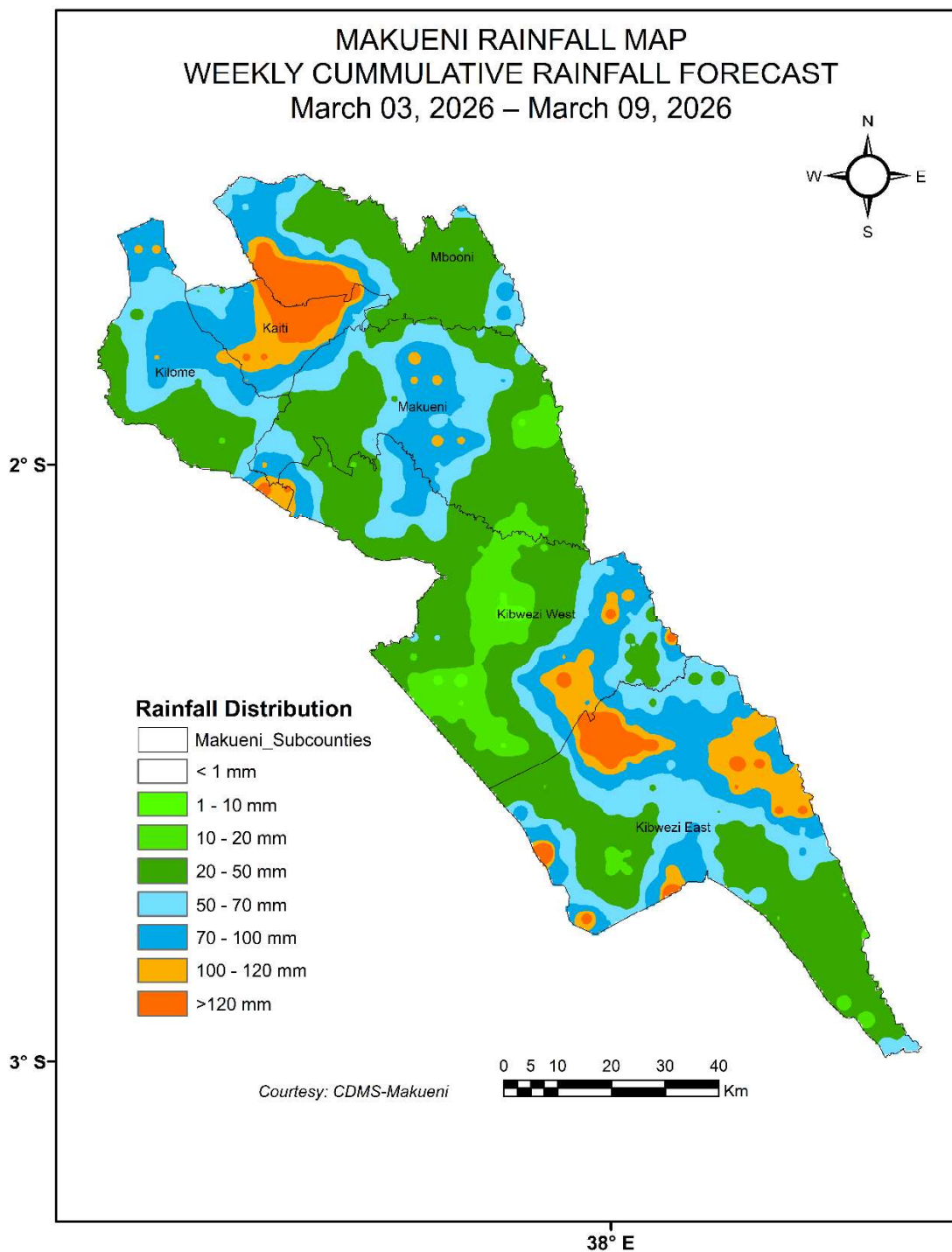


Weekly Weather Forecast for Makueni County

Validity: March 03, 2026 – March 09, 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

March 03 – March 09, 2026

1. General Overview

During the forecast period, Makueni County is expected to experience **spatially heterogeneous rainfall distribution**, characterized by a **northwestern–southeastern rainfall corridor**. Rainfall totals range from **dry conditions (<1 mm)** in isolated pockets to **very heavy rainfall (>50 mm)** in parts of southern and southeastern wards.

A distinct **rainfall concentration belt** is evident from parts of **Ukia–Kithungo/Kitundu–Kathonzweni corridor**, extending southward into **Kikumbulyu South and Masongaleni**.

Category-Based Spatial Highlights

- **Dry Conditions (<1 mm)**
 - *Sample Ward:* Parts of **Makindu**
 - *Detail:* Localized dry pockets with negligible rainfall; limited soil moisture recharge.
- **Light Rain (1–5 mm)**
 - *Sample Ward:* **Makindu**
 - *Detail:* Scattered drizzles; minimal runoff contribution.
- **Moderate Rain (5–20 mm)**
 - *Sample Ward:* **Mavindini**
 - *Detail:* Steady rainfall episodes; suitable for early crop establishment.
- **Heavy Rain (20–50 mm)**
 - *Sample Ward:* **Kikumbulyu North (Kibwezi West)**
 - *Detail:* Intense rainfall events; potential for localized surface runoff.
- **Very Heavy Rain (>50 mm)**
 - *Sample Ward:* **Kikumbulyu South and Masongaleni (Kibwezi East)**
 - *Detail:* Prolonged rainfall likely; elevated risk of waterlogging and flash flooding in low-lying zones.

Extremes

- **Highest Totals:** Kikumbulyu South, Masongaleni, parts of Ukia and Kathonzweni (>50 mm).
- **Lowest Totals:** Parts of Kalawa (<5 mm).
- **No Activity:** Isolated micro-pockets.

2. Subcounty and Ward-Level Forecast Summary

MAKUENI SUB-COUNTY

Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Kitise/Kithuki	10–20	Moderate	Steady rainfall; favorable for cropping
Kathonzweni	50–70	Very Heavy	High runoff potential; localized flooding risk
Mavindini	10–20	Moderate	Good moisture recharge
Muvau/Kikumini	20–40	Heavy	Possible thunderstorms
Wote	10–20	Moderate	Episodic rainfall
Mbitini	20–50	Heavy	Water accumulation in lowlands
Nzakika	20–40	Heavy	Increased surface runoff

KIBWEZI EAST SUB-COUNTY

Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Masongaleni	50–100	Very Heavy	Flood-prone zones at risk
Ivinnza	10–20	Moderate	Scattered showers
Mtito Andei	20–40	Heavy	Enhanced river flow expected
Thange	20–100	Heavy	Potential flash flooding

KIBWEZI WEST SUB-COUNTY

Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Makindu	10–20	Moderate	Improved soil moisture
Emali/Mulala	20–40	Heavy	Thunderstorm likelihood
Nguu/Masumba	10–20	Moderate	Beneficial rains
Nguumo	20–40	Heavy	Possible localized flooding
Kikumbulyu North	30–50	Heavy	Strong convective activity
Kikumbulyu South	50–110	Very Heavy	High flood risk

KILOME SUB-COUNTY

Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Kasikeu	5–40	Variable	Drizzles; minimal runoff
Kiima Kiu	5–50	Variable	Moisture improvement
Mukaa	5–70	Variable	Intermittent showers

MBOONI SUB-COUNTY

Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Tulimani	5–50	Variable	Isolated showers
Kiteta/Kisau	5–50	Variable	Gradual soil recharge
Kithungo/Kitundu	20–100	Heavy - Very Heavy	Elevated rainfall concentration
Kalawa	5–40	Variable	Scattered showers
Mbooni	50–70	Very Heavy	Beneficial rainfall
Kako/Waia	5–40	Variable	Localized showers

KAITI SUB-COUNTY

Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Kilungu	20–50	Heavy	Intense rainfall pockets
Ukia	50–70	Very Heavy	High runoff expected
Ilima	10–20	Moderate	Stable rainfall
Kee	20–40	Heavy	Possible thunderstorm activity

3. Summary by Rainfall Intensity

Rain Intensity	Rainfall Range (mm)	All Wards Affected
Dry	<1	Isolated parts of Makindu
Light	1–5	parts of Makindu, parts of Kasikeu, parts of Kalawa, parts of Tulimani
Moderate	5–20	Kitise/Kithuki, Mavindini, Wote, Ivinnza, Makindu, Nguu/Masumba, Kiima Kiu, Mukaa, Kiteta/Kisau, Mbooni, Kako/Waia, Ilima
Heavy	20–50	Muvau/Kikumini, Mbitini, Nzakika, Mtito Andei, Thange, Emali/Mulala, Nguumo, Kikumbulyu North, Kilungu, Kee, Kithungo/Kitundu
Very Heavy	>50	Kathonzweni, Masongaleni, Kikumbulyu South, Ukia

4. Key Takeaways

1. Rainfall Hotspots

- **Southern and southeastern corridor (Kikumbulyu South, Masongaleni, Ukia, Kathonzweni)** expected to receive the **highest cumulative totals (>50 mm)**.
- Potential impacts include:
 - Localized flooding
 - Waterlogging in low-lying farms
 - Increased river discharge

2. Heavy Rain Zones

- Kibwezi West and central wards may experience intense rainfall episodes.
- Risk of:
 - Soil erosion
 - Road surface degradation
 - Temporary access disruptions

3. Moderate Rain Zones

- Most central and northern wards will receive **5–20 mm**, supporting:
 - Crop establishment
 - Pasture regeneration
 - Moderate surface recharge

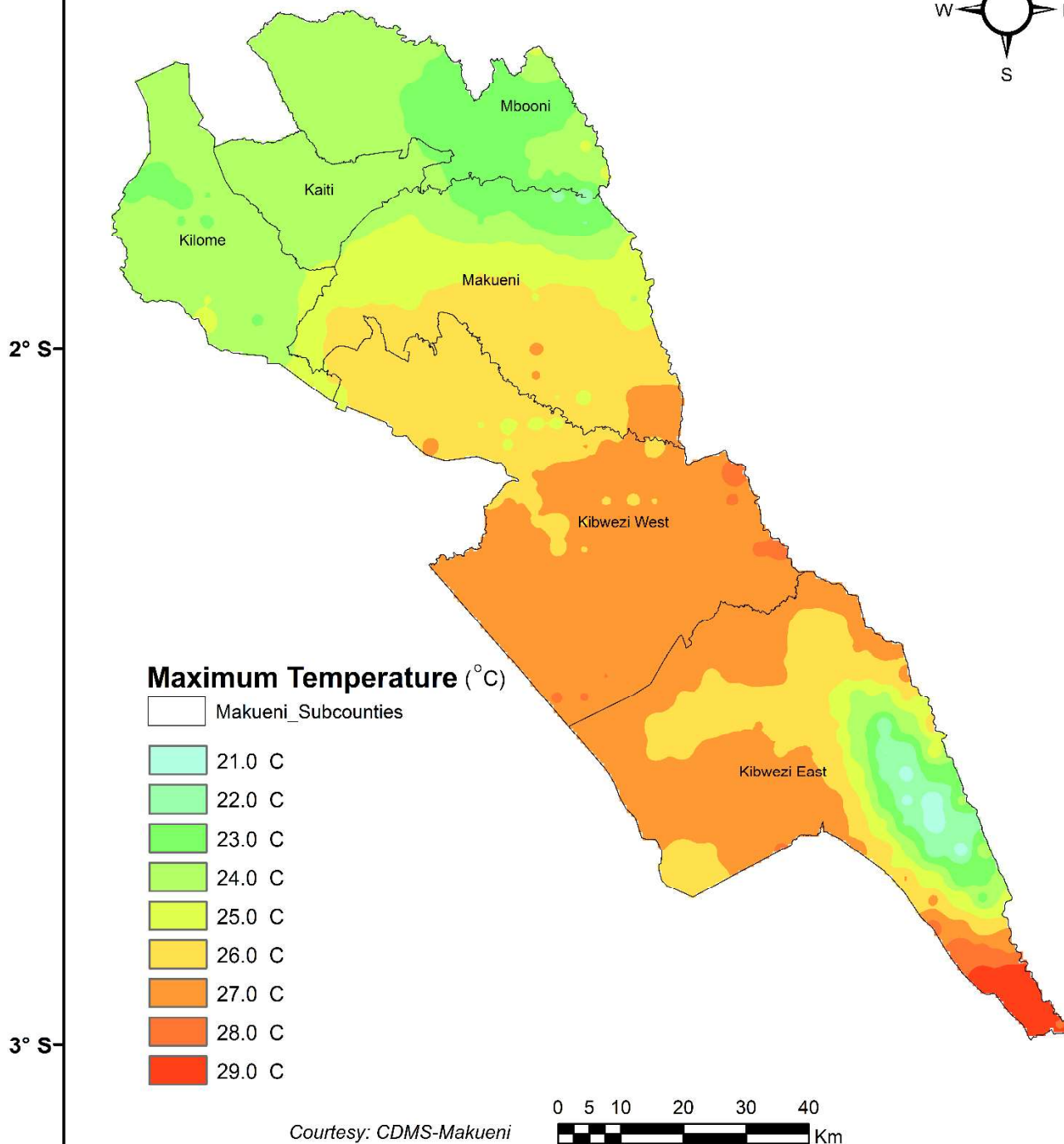
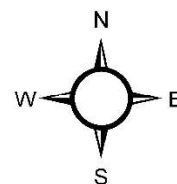
4. Light and Dry Areas

- Implications:
 - Slow pasture recovery
 - Minimal water harvesting gains

Concluding Outlook

The weekly forecast indicates **progressive onset characteristics**, with rainfall intensity increasing toward southern lowlands. Sectoral preparedness is advised in flood-prone zones, while agricultural activities can proceed where necessary, in moderate rainfall areas with attention to drainage management in heavy rainfall wards.

MAKUENI MAXIMUM TEMPERATURE MAP WEEKLY AVERAGE FORECAST March 03, 2026 – March 09, 2026

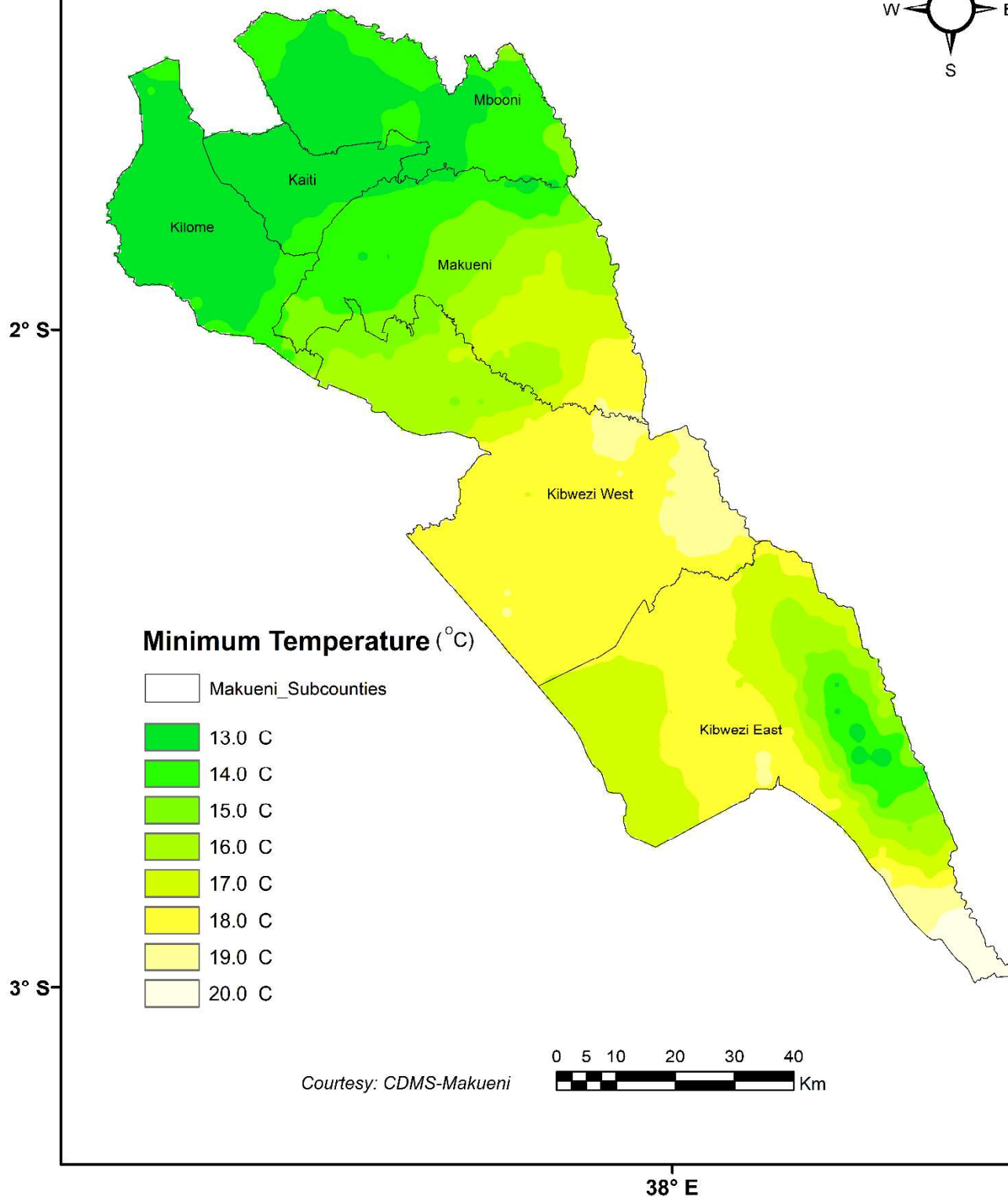
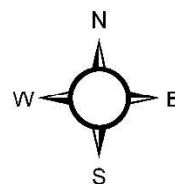


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Makueni Weekly Average Maximum Temperature Forecast Map

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

MAKUENI MINIMUM TEMPERATURE MAP WEEKLY AVERAGE FORECAST March 03, 2026 – March 09, 2026



Makueni Weekly Average Minimum Temperature Forecast Map

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

Makueni County Weekly Temperature Forecast Summary (March 03 – March 09, 2026)

General Overview

During the forecast period, Makueni County will experience a **pronounced altitudinal temperature gradient**, characterized by:

- **Cooler highland conditions** over northern and northwestern wards (Mbooni, Tulimani, Kilungu highlands).
- **Moderately warm transitional belt** across central wards (Wote, Mavindini, Kitise).
- **Hot to very hot lowland conditions** across southern and southeastern wards (Kibwezi East and parts of Kibwezi West).

Maximum Temperatures (Daytime)

- **Range: 21°C to 29°C**
- Coolest daytime temperatures: Northern highlands (21–24°C)
- Warmest daytime temperatures: Southern lowlands (28–29°C)

Minimum Temperatures (Nighttime)

- **Range: 13°C to 20°C**
- Coolest nights: Upper Mbooni and Tulimani highlands (13–15°C)
- Warmest nights: Southern lowlands (19–20°C)

Spatial Pattern Summary

Zone	Characteristics	Temperature Pattern
Northern Highlands (Mbooni, Kilungu, Tulimani)	Elevated terrain	Cooler days, cool nights
Central Transitional Belt (Wote, Makueni Central)	Mid-altitude	Warm days, mild nights
Southern Lowlands (Kibwezi East & West)	Low elevation, semi-arid	Hot days, warm nights

Sectoral and Human Comfort Implications

- **Southern lowlands:** Elevated evapotranspiration rates; increased crop water demand and livestock heat stress risk.
- **Central zones:** Favorable thermal regime for crop establishment.
- **Highlands:** Cooler nights beneficial for horticulture but may slow vegetative growth.

Ward-Level Temperature Summary

All Wards	Max Temp (°C)	Max Temp Category	Min Temp (°C)	Min Temp Category	Remarks
Tulimani	21–23	Cool	13–14	Cool	Cool days and nights; highland influence
Kiteta/Kisau	23–25	Cool	14–15	Cool	Mild daytime heat; comfortable nights
Kithungo/Kitundu	24–26	Warm	15–16	Mild	Moderate diurnal range
Kalawa	23–25	Cool	14–15	Cool	Stable thermal regime
Mbooni	23–25	Cool	14–15	Cool	Suitable for horticulture
Kako/Waia	24–26	Warm	15–16	Mild	Transitional thermal conditions
Kilungu	23–25	Cool	14–15	Cool	Highland cooling effect
Ukia	24–26	Warm	15–16	Mild	Moderate warmth
Ilima	24–26	Warm	16–17	Mild	Favorable growth conditions
Kee	24–26	Warm	15–16	Mild	Moderate thermal stress
Kasikeu	23–25	Cool	14–15	Cool	Comfortable conditions
Kiima Kiu	24–26	Warm	15–16	Mild	Moderate daytime warmth
Mukaa	24–26	Warm	15–16	Mild	Transitional zone
Kitise/Kithuki	25–27	Warm	16–17	Mild	Stable planting conditions
Kathonzweni	26–28	Warm	17–18	Mild	Warm afternoons
Mavindini	25–27	Warm	16–17	Mild	Balanced diurnal cycle
Muvau/Kikumini	26–28	Warm	17–18	Mild	Moderate heat
Wote	26–28	Warm	17–18	Mild	Warm days; moderate nights
Mbitini	27–28	Warm	17–18	Mild	Increasing warmth southward
Nzakika	26–28	Warm	17–18	Mild	Moderate stress levels
Makindu	27–29	Warm	18–19	Warm	Warm days; limited night cooling
Emali/Mulala	27–29	Warm	18–19	Warm	Elevated evapotranspiration
Nguu/Masumba	27–29	Warm	18–19	Warm	Warm regime
Nguumo	28–29	Warm	18–19	Warm	Hot afternoons
Kikumbulyu North	28–29	Warm	18–19	Warm	Semi-arid heat regime
Kikumbulyu South	28–29	Warm	19–20	Warm	Warm nights; sustained heat
Masongaleni	28–29	Warm	19–20	Warm	High heat accumulation
Ivinza	26–28	Warm	17–18	Mild	Transitional south
Mtito Andei	27–29	Warm	18–19	Warm	High evapotranspiration risk
Thange	27–29	Warm	18–19	Warm	Warm and dry tendencies



Maximum Temperature Summary by Category

Category	Range (°C)	Interpretation	Sample Wards Affected
Cool	≤25	Mild daytime heat	Tulimani, Mbooni, Kiteta/Kisau, Kalawa, Kilungu, Kasikeu
Warm	26–29	Comfortable to warm	Wote, Kathonzweni, Makindu, Mtito Andei, Kikumbulyu South
Hot	30–33	Intense heat	None observed this week
Very Hot	≥34	Extreme heat	None observed

Minimum Temperature Summary by Category

Category	Range (°C)	Interpretation	Sample Wards Affected
Cold	≤12	Chilly nights	None observed
Cool	13–15	Comfortable cooling	Tulimani, Mbooni, Kilungu, Kasikeu
Mild	16–18	Favorable for growth	Wote, Mavindini, Kathonzweni
Warm	≥19	Limited cooling	Masongaleni, Kikumbulyu South, Makindu

Key Takeaways

1. Warmest Zones

Southern lowlands (Kikumbulyu South, Masongaleni, Mtito Andei, Nguumo) will record the highest daytime temperatures (28–29°C) and warm nights (19–20°C).

- Increased evapotranspiration rates
- Higher irrigation demand
- Livestock heat stress risk

2. Cooler Highland Zones

Mbooni, Tulimani, Kilungu and parts of Kalawa will remain comparatively cooler.

- Favorable for horticultural crops
- Lower moisture loss
- Comfortable human thermal conditions

3. Transitional Central Belt

Wote, Kitise, Mavindini and Kathonzweni exhibit moderate thermal contrasts.

- Suitable for crop establishment
- Balanced diurnal variation

4. Maximum–Minimum Contrast

- Highlands: Larger diurnal range (cool nights vs mild days).
- Lowlands: Reduced diurnal cooling (warm nights and warm days).

Overall, the county will experience **warm but not extreme thermal conditions**, with no widespread heatwave signals. Thermal stress remains localized to southern lowlands, while northern highlands retain favorable agro-climatic conditions for temperature-sensitive crops.

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.