



MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

STATE DEPARTMENT FOR ENVIRONMENT AND CLIMATE CHANGE

KENYA METEOROLOGICAL DEPARTMENT

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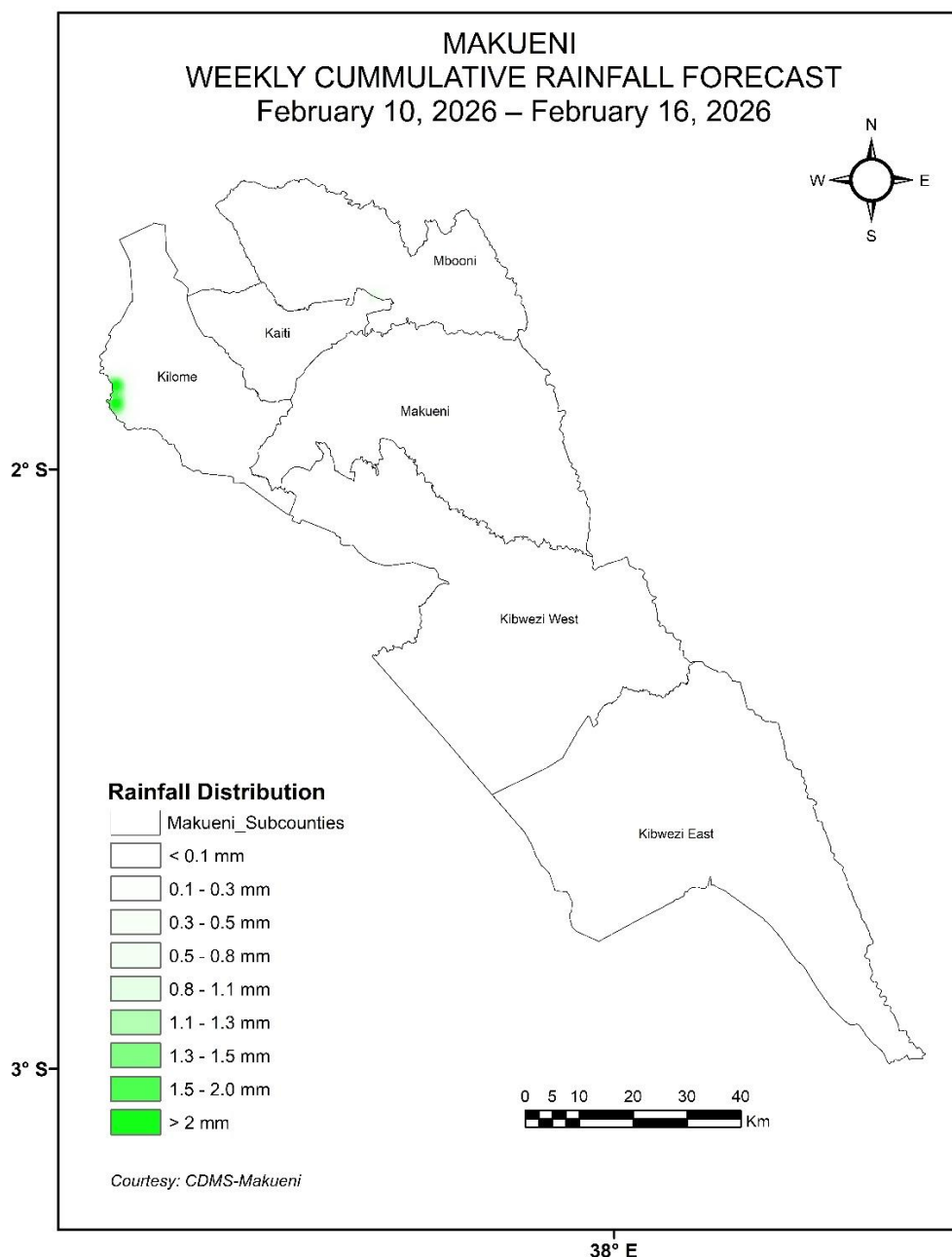
Weekly Weather Forecast for Makueni County

Validity: February 10, 2026 – February 16, 2026

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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Weather Highlights: Rainfall
Rainfall Map
Makueni



Makueni Weekly Cumulative Rainfall Forecast Map

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

Makueni County Weekly Cumulative Rainfall Forecast Summary (February 10 – February 16, 2026)

1. General Overview

The cumulative rainfall forecast for Makueni County during the period **10–16 February 2026** indicates **predominantly dry conditions** across the county. Spatial analysis of the maps shows that **over 90% of wards are expected to receive less than 1.0 mm**, consistent with dry-season or suppressed rainfall conditions.

A **small localized pocket of light rainfall (≈1.3–2.0 mm)** is evident in the **far western sector of Kilome Subcounty**, extending marginally into adjacent wards. No areas indicate moderate, heavy, or very heavy rainfall.

- **Dominant category:** Dry conditions
- **Highest totals:** Western Kilome (localized)
- **Lowest totals:** Central, eastern, and southern Makueni (zero rainfall)

2. Subcounty and Ward-Level Forecast Summary

Subcounty	Ward	Forecast Rainfall (mm)	Rainfall Category	Remarks
Kilome	Mukaa / Western wards	1.3 – 2.0	Light rain	Isolated showers; negligible hydrological impact
Kilome	Central/Eastern wards	< 1.0	Dry	No meaningful rainfall expected
Kaiti	All wards	< 0.5	Dry	Dry conditions persist
Mbooni	All wards	< 0.5	Dry	Cool but dry upland conditions
Makueni	All wards	< 0.5	Dry	No support for rain-fed activities
Kibwezi West	All wards	< 0.3	Dry	Hot and dry lowland regime
Kibwezi East	All wards	< 0.3	Dry	Continued moisture stress
Makindu	All wards	< 0.3	Dry	No rainfall contribution
Nguumo	All wards	< 0.3	Dry	Dry southern corridor
Kikumbulyu (North & South)	All wards	< 0.3	Dry	Pasture regeneration unlikely
Thange	All wards	< 0.3	Dry	Persistent aridity
Masinga-related fringe / SE wards	All wards	< 0.3	Dry	No rainfall signal

3. Summary by Rainfall Intensity

Rain Intensity	Rainfall Range (mm)	Wards Affected
Dry	< 1.0 mm	Majority of wards across Makueni, Kibwezi East/West, Kaiti, Mbooni, Makindu, Thange, Nguumo, Kikumbulyu
Light Rain	1.0 – 5.0 mm	Isolated western Kilome wards
Moderate Rain	5 – 20 mm	None
Heavy Rain	20 – 50 mm	None
Very Heavy Rain	> 50 mm	None

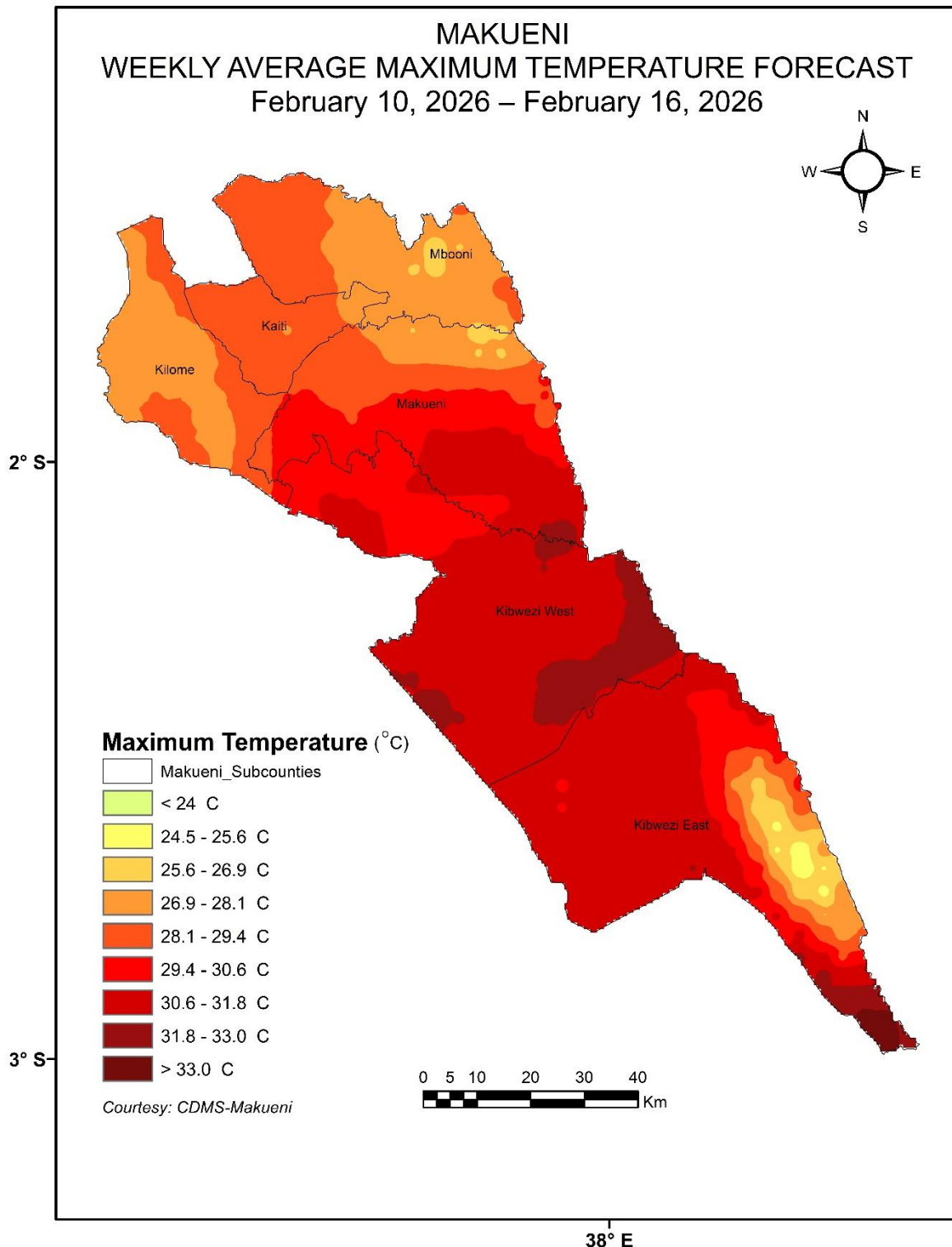
4. Key Takeaways

- **Rainfall is largely absent across Makueni County**, with only **minor, localized light showers** confined to western Kilome.
- **No flooding or waterlogging risks** are anticipated during the forecast period.
- **Agricultural implication:**
 - Rainfall is **insufficient for planting or pasture regeneration** across most zones.
 - Any light rain in Kilome is **non-effective**, mainly wetting the surface.

- Southern and eastern lowlands (Kibwezi, Makindu, Thange) will continue to experience **moisture stress**, reinforcing the need for water conservation and livestock management strategies.
- The overall pattern is consistent with a **suppressed rainfall phase**, typical of intra-seasonal dry spells.

Weather Highlights: Temperature

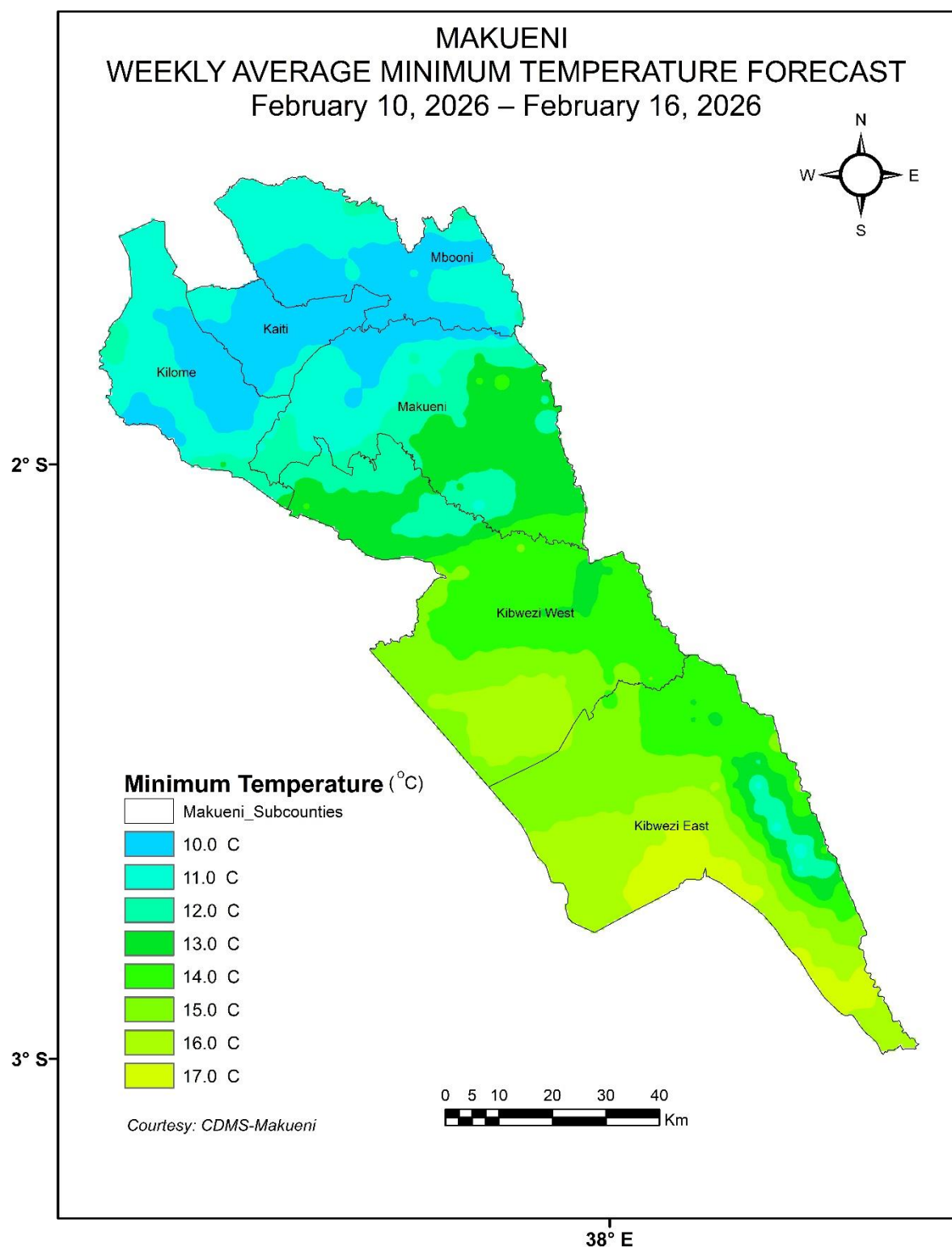
Maximum Temperature Map for the week



Makueni Weekly Average Maximum Temperature Forecast Map

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

Minimum Temperature Map for the week



Makueni Weekly Average Minimum Temperature Forecast Map

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

Makueni County Weekly Temperature Forecast Summary

Period: February 10 – February 16, 2026

1. General Overview

Analysis of the **weekly average maximum and minimum temperature forecast maps** indicates a **pronounced north–south and altitudinal temperature gradient** across Makueni County.

- **Daytime (Maximum) Temperatures:**
Range from $\approx 24^{\circ}\text{C}$ in the northern highlands to $>34^{\circ}\text{C}$ in the southern and southeastern lowlands.
 - **Cool–Warm conditions** dominate the **upland zones** (Mbooni, parts of Kaiti).
 - **Hot to very hot conditions** prevail across **Kibwezi East, Kibwezi West, Makindu, Nguumo, Thange, and Kikumbulyu**.
- **Night-time (Minimum) Temperatures:**
Range from $\approx 10\text{--}12^{\circ}\text{C}$ in the highlands to $\approx 18\text{--}20^{\circ}\text{C}$ in the lowlands.
 - **Cool nights** in elevated northern wards.
 - **Mild to warm nights** in central and southern lowlands, limiting nocturnal cooling.

Implications

- **Agriculture:** High evapotranspiration in the south increases crop water stress; highlands remain favorable for horticulture.
- **Water demand:** Elevated in hot lowlands.
- **Livestock & human comfort:** Heat stress risk in southern wards; cooler nights offer relief mainly in uplands.

2. Subcounty and Ward-Level Temperature Summary

Subcounty	Ward (Representative)	Max Temp ($^{\circ}\text{C}$)	Max Category	Min Temp ($^{\circ}\text{C}$)	Min Category	Remarks
Mbooni	Tulimani / Kithungo	24–26	Mild	10–12	Cold–Cool	Mild days, cool nights; favorable for tea, vegetables
Kaiti	Ukia / Kee	26–29	Warm	12–14	Cool	Comfortable days; suitable for mixed farming
Makueni	Wote / Nzau	28–30	Warm–Hot	14–16	Cool–Mild	Warm days; moderate night cooling
Kilome	Mukaa	27–29	Warm	13–15	Cool	Transitional thermal zone
Kibwezi West	Nguumo	32–34	Hot–Very Hot	18–20	Warm	High heat load; moisture stress risk
Kibwezi East	Thange	33–35	Very Hot	18–20	Warm	Extreme daytime heat; high evapotranspiration
Makindu	Makindu	31–33	Hot	17–19	Mild–Warm	Hot days; limited night cooling
Kikumbulyu (N/S)	Masongaleni	32–34	Hot–Very Hot	18–20	Warm	Heat stress risk to crops/livestock

3. Maximum Temperature Summary by Category

Category	Range (°C)	Interpretation	Wards Affected
Cool	≤25	Mild daytime heat	Limited pockets in high Mbooni
Warm	26–29	Comfortable	Ukia, Kee, Mukaa, parts of Wote
Hot	30–33	Intense afternoon heat	Makueni central, Makindu
Very Hot	≥34	Extreme heat	Thange, Nguumo, Masongaleni, SE Kibwezi East

4. Minimum Temperature Summary by Category

Category	Range (°C)	Interpretation	Wards Affected
Cold	≤12	Chilly nights; dew likely	Tulimani, Kithungo (Mbooni)
Cool	13–15	Mild, comfortable nights	Ukia, Kee, Mukaa
Mild	16–18	Favorable for growth	Wote, Makindu
Warm	≥19	Warm nights; limited cooling	Thange, Nguumo, Masongaleni

5. Key Takeaways

- **Highest heat stress risk** is concentrated in **southern and southeastern lowlands (Kibwezi East/West, Thange, Nguumo, Masongaleni)** due to **very hot days and warm nights**.
- **Northern highlands (Mbooni)** remain **thermally favorable**, with **mild days and cool nights**, supporting horticulture and reducing water demand.
- **Central zones (Makueni, Kaiti, Kilome)** act as **thermal transition areas**, suitable for mixed farming but requiring moisture management.
- Overall, the county exhibits **strong max–min contrasts**, with implications for **crop water use, livestock comfort, and human heat exposure**, especially under concurrent dry conditions.

Temperature Category Reference Tables

Maximum Temperature Categories

Category	Range (°C)	Meaning
Cool	≤25	Mild daytime heat; low stress
Warm	26–29	Comfortable; suitable for crops
Hot	30–33	Intense heat; moderate stress
Very Hot	≥34	Extreme heat; high stress risk

Minimum Temperature Categories

Category	Range (°C)	Meaning
Cold	≤12	Chilly; dew likely
Cool	13–15	Mild; minimal stress
Mild	16–18	Favorable for growth
Warm	≥19	Warm nights; limited cooling

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.