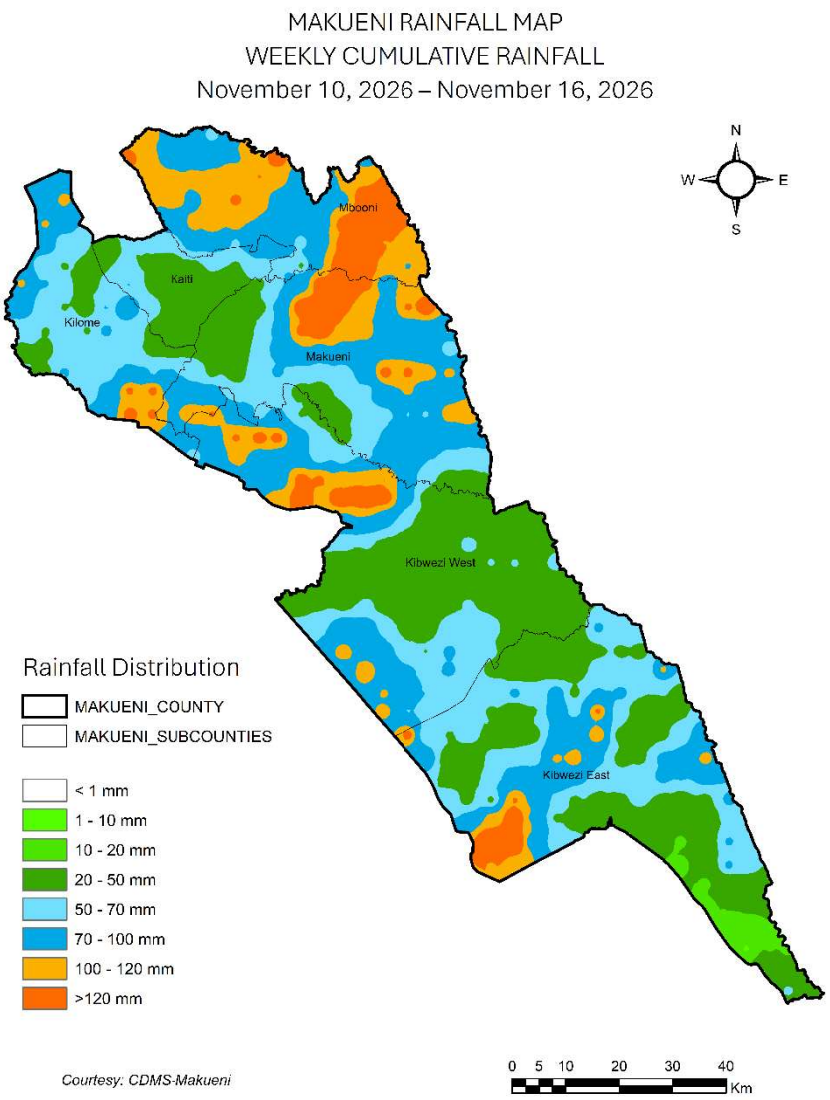
REPUBLIC OF KENYA

MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

STATE DEPARTMENT FOR ENVIRONMENT AND CLIMATE CHANGE

KENYA METEOROLOGICAL DEPARTMENT

NOTE: Dry day <1mm. Light rains (1-5 mm). Moderate rains (5-20 mm). Heavy rains (20-50 mm). Very Heavy rains > 50 mm.



MAKUENI COUNTY WEEKLY WEATHER FORECAST

Forecast Period: November 10, 2026 – November 16, 2026

GENERAL WEATHER OUTLOOK

Makueni County is expected to experience generally wet conditions during the forecast period, with rainfall occurring across several parts of the county. Rainfall distribution is expected to vary considerably, with some areas receiving moderate rainfall while others are likely to experience heavy to very heavy rainfall.

The northern highlands, particularly Mbooni, Kaiti and Kilome, are expected to receive substantial rainfall. Central Makueni will also experience considerable rainfall, while Kibwezi East and Kibwezi West are expected to receive variable rainfall amounts, with localized areas experiencing very heavy rainfall.

Daytime temperatures will generally range from 23°C to 31°C, while night-time temperatures will range from approximately 11°C to 17°C. Relatively cooler conditions are expected in the northern highlands, with warmer conditions prevailing over the southern and southeastern lowlands.

RAINFALL FORECAST

Rainfall is expected across most parts of Makueni County during the forecast period, with cumulative amounts varying significantly across the county.

- Mbooni, Kaiti and Kilome: These highland areas are expected to receive substantial rainfall, mainly between 50 and 100 mm, with isolated areas potentially receiving more than 100 mm.
- Makueni: Moderate to very heavy rainfall is expected, with several areas likely to receive 50–100 mm and localized pockets recording amounts above 100 mm.

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- Kibwezi West: Rainfall amounts are expected to range mainly between 20 and 50 mm, with surrounding areas receiving approximately 50–70 mm.
- Kibwezi East: Rainfall is expected to vary from moderate to very heavy, mainly between 20 and 70 mm, with isolated areas receiving lower or higher amounts.

Subcounty	Expected rainfall classification	Spatial characteristics
Mbooni	Heavy to very heavy	Predominantly 50–100 mm, with isolated areas exceeding 100 mm
Kaiti	Heavy to very heavy	A mixture of 20–50 mm and 50–100 mm, with localized higher amounts
Kilome	Heavy to very heavy	Mainly 50–100 mm, with pockets of 20–50 mm
Makueni	Moderate to very heavy	Mainly 50–100 mm, with localized areas of 20–50 mm and above 100 mm
Kibwezi West	Heavy to very heavy	Predominantly 20–50 mm, with surrounding areas receiving 50–70 mm
Kibwezi East	Moderate to very heavy	Mainly 20–70 mm, with localized lower and higher rainfall amounts

Advisory and recommended actions:

- Farmers are advised to take advantage of the expected rainfall for crop establishment, planting and other appropriate farm activities, while ensuring adequate drainage in cultivated fields.
- Farmers should avoid applying fertilizers and pesticides immediately before or during heavy rainfall to minimize nutrient and chemical losses through runoff.
- Residents in flood-prone areas and those living near seasonal rivers and streams should remain alert to possible flash flooding and avoid crossing flooded rivers.
- County departments responsible for roads, infrastructure and disaster management should inspect drainage systems, bridges, culverts and other flood-prone infrastructure.
- Households should harvest and safely store rainwater while maintaining proper drainage around residential compounds to minimize waterlogging.
- Livestock farmers should provide dry shelter for animals and strengthen disease surveillance, particularly in areas experiencing persistent wet conditions.

🌡️ MAXIMUM TEMPERATURE HIGHLIGHT

Overall classification: Warm to hot

Maximum temperatures are expected to range between approximately 23°C and 31°C across the county.

Subcounty	Forecast temperature (°C)	Category	Remarks
Mbooni	23–25	Cool	Relatively cool daytime conditions
Kaiti	25–27	Cool to warm	Mild to moderately warm conditions
Kilome	26–27	Warm	Comfortable daytime temperatures
Makueni	27–30	Warm to hot	Increasing daytime heat towards the southern and eastern areas

Kibwezi West	29–30	Hot	Relatively high daytime temperatures
Kibwezi East	27–31	Warm to hot	Hotter conditions in the western and southern sections, with relatively cooler areas towards the eastern escarpment

- Mbooni: Relatively cool daytime conditions are expected, with temperatures ranging between 23°C and 25°C.
- Kaiti: Temperatures are expected to range between 25°C and 27°C, indicating cool to warm conditions.
- Kilome: Generally warm conditions are expected, with temperatures ranging between 26°C and 27°C.
- Makueni: Warm to hot conditions are expected, with temperatures ranging between 27°C and 30°C.
- Kibwezi West: Relatively hot daytime conditions are expected, with temperatures ranging between 29°C and 30°C.
- Kibwezi East: Temperatures are expected to range between 27°C and 31°C, with the highest values occurring in localized areas.

Advisory and recommended actions:

- Residents, particularly outdoor workers, are advised to maintain adequate hydration and take appropriate precautions during relatively hot periods.
- Farmers should maintain appropriate soil moisture through mulching and other water-conservation practices.
- Livestock farmers should ensure adequate access to clean drinking water and shaded resting areas, particularly in warmer lowland areas.

🌙 MINIMUM TEMPERATURE

Overall classification: Cool to mild, with isolated cold conditions

Minimum temperatures are expected to range between approximately 11°C and 17°C across Makueni County.

Subcounty	Forecast temperature (°C)	Category	Remarks
Mbooni	11–14	Cold to cool	Chilly nights, particularly in higher-altitude areas
Kaiti	12–15	Cold to cool	Relatively cool night-time conditions
Kilome	13–15	Cool	Mild and relatively cool nights
Makueni	13–16	Cool to mild	Moderate night-time temperatures
Kibwezi West	13–16	Cool to mild	Generally mild night-time conditions
Kibwezi East	13–17	Cool to mild	Relatively warmer nights in some areas

- Mbooni: Cold to cool night-time conditions are expected, with temperatures ranging between 11°C and 14°C.
- Kaiti: Relatively cool nights are expected, with temperatures ranging between 12°C and 15°C.
- Kilome: Cool night-time conditions are expected, with temperatures ranging between 13°C and 15°C.
- Makueni: Cool to mild conditions are expected, with temperatures ranging between 13°C and 16°C.
- Kibwezi West: Minimum temperatures are expected to range between 13°C and 16°C.
- Kibwezi East: Relatively mild night-time conditions are expected, with temperatures ranging between 13°C and 17°C.

Advisory and recommended actions:

- Residents in the highland areas, particularly Mbooni and Kaiti, are advised to use adequate warm clothing during the night and early morning hours.
- Livestock farmers should provide appropriate night shelters, particularly for young, weak and vulnerable animals.
- Farmers should monitor crops sensitive to prolonged cool and wet conditions and implement appropriate crop protection measures.

Maximum Temperature Categories

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

Minimum Temperature Categories

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

Spatial pattern

The forecast indicates distinct spatial variations in rainfall and temperature across Makueni County.

Rainfall distribution

The northern highlands, particularly Mbooni, Kaiti and Kilome, are expected to receive substantial rainfall, with several areas recording above 50 mm. Central Makueni is also expected to receive considerable rainfall, although the distribution will be variable. Kibwezi East and West are likely to experience a mixture of moderate and heavy rainfall, with localized very heavy rainfall.

Maximum temperature distribution

A clear north-to-south and highland-to-lowland temperature gradient is evident. Mbooni and parts of Kaiti will experience cooler daytime conditions, while Makueni and the Kibwezi subcounties will experience relatively warmer conditions.

Minimum temperature distribution

The northern highlands will experience cooler nights than the southern lowlands. The relatively lower night-time temperatures in Mbooni and Kaiti are associated with their higher elevation, while Kibwezi East and West will generally experience milder nights.

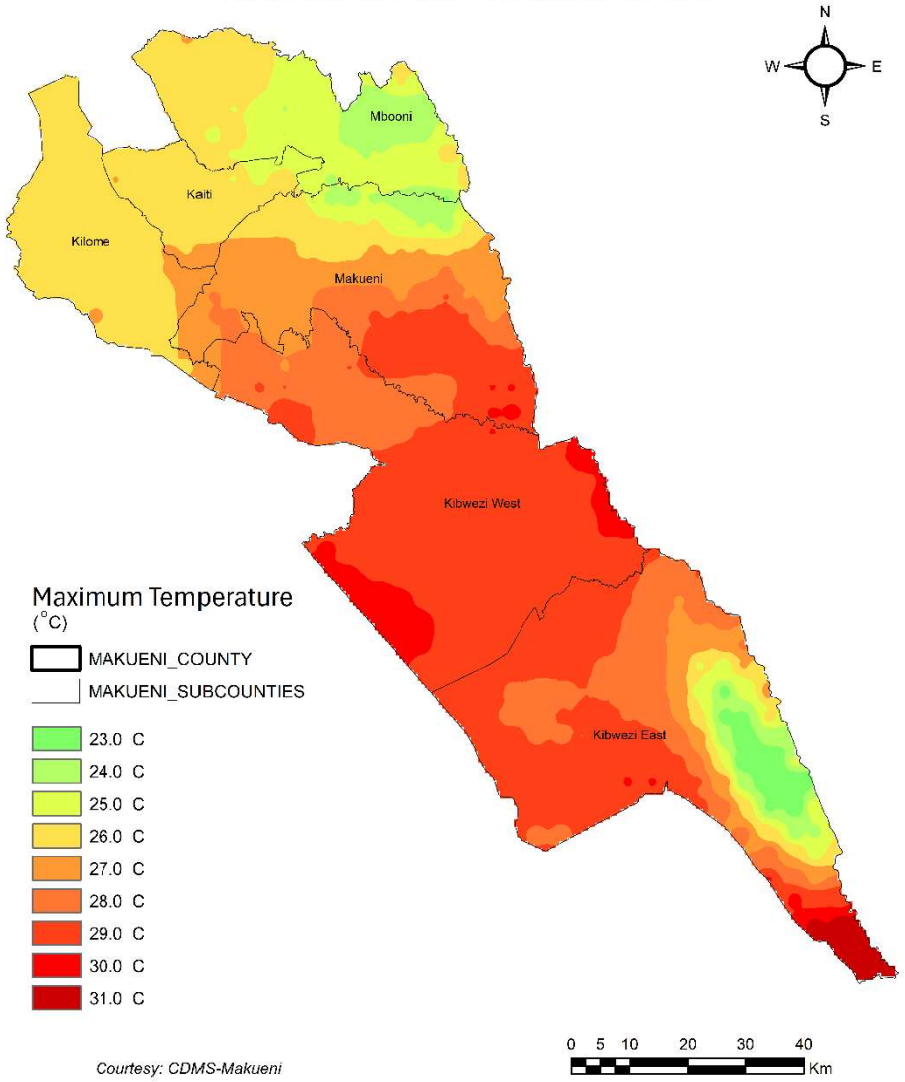
Geographical zone	*Rainfall outlook*	*Temperature outlook*
Northern highlands (Mbooni, Kaiti and Kilome)	Heavy to very heavy	Cool days and cold to cool nights
Central zone (Makueni)	Moderate to very heavy	Warm to hot days and cool to mild nights
Southern and southeastern lowlands (Kibwezi East and West)	Moderate to very heavy, with localized variations	Warm to hot days and cool to mild nights

The spatial distribution reflects the influence of altitude and local topography on temperature and rainfall patterns. The elevated northern highlands are expected to experience relatively cooler conditions, while the lower-lying southern and southeastern areas will remain comparatively warmer.

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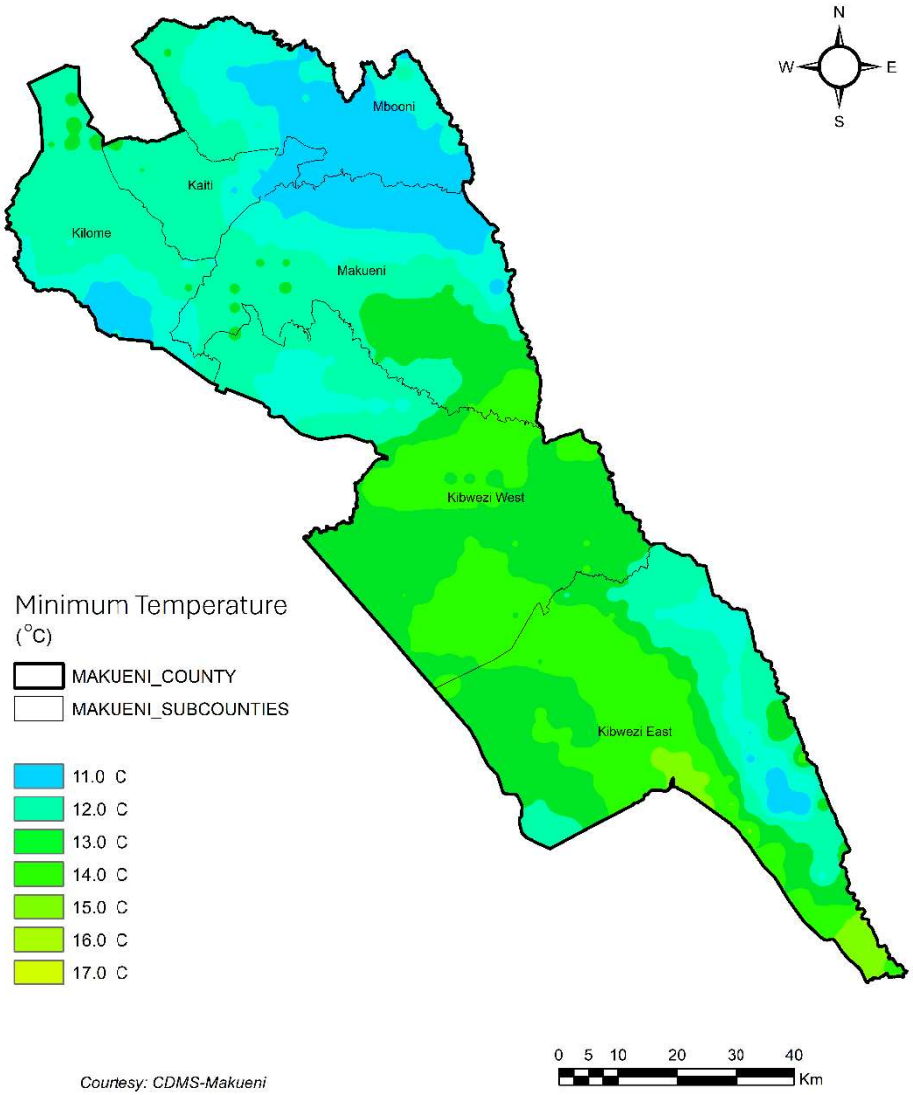
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MAKUENI MAXIMUM TEMPERATURE MAP
WEEKLY AVERAGE FORECAST
November 10, 2026 – November 16, 2026



Courtesy: CDMS-Makueni

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KEY WEATHER-RELATED RISKS AND EARLY ACTIONS

Potential weather-related risk	*Priority areas*	*Recommended early action*
Flash flooding and river overflow	Areas near seasonal rivers and streams across the county	Monitor water levels and discourage crossing flooded rivers
Soil erosion and waterlogging	Highland and cultivated areas	Clear drainage channels and implement soil conservation measures
Road and infrastructure damage	Flood-prone roads, bridges and drainage crossings	Inspect and maintain drainage infrastructure
Crop damage and nutrient loss	Agricultural areas receiving heavy rainfall	Improve field drainage and protect vulnerable crops
Livestock diseases	Areas experiencing prolonged wet conditions	Strengthen animal health surveillance and maintain dry shelters
Water contamination	Settlements exposed to surface runoff	Protect water sources and treat drinking water

Priority preparedness actions: County departments, humanitarian partners, local administrators and communities are encouraged to strengthen rainfall monitoring, disseminate timely weather information and implement appropriate preparedness measures, particularly in areas forecast to receive heavy to very heavy rainfall.

SUMMARY OF THE WEEKLY FORECAST

Weather element	Expected conditions
Rainfall	Heavy to very heavy rainfall in several areas, with localized moderate rainfall
Maximum temperature	23–31°C; generally warm to hot
Minimum temperature	11–17°C; generally cool to mild, with isolated cold conditions
Main concern	Localized flooding, waterlogging, soil erosion and crop damage
Potential opportunity	Improved soil moisture, crop establishment and water harvesting

GENERAL PUBLIC ADVISORY

Residents of Makueni County are advised to remain alert to changing weather conditions throughout the forecast period. Communities living near seasonal rivers, streams and other flood-prone locations should exercise caution, particularly during periods of heavy rainfall. Farmers are encouraged to take advantage of the expected rainfall while implementing appropriate drainage, soil conservation and crop management practices.

County departments and relevant stakeholders are encouraged to strengthen preparedness, monitor weather-related risks and support timely dissemination of early warning information to vulnerable communities.

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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.