



**REPUBLIC OF KENYA**  
**MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY**  
**KENYA METEOROLOGICAL DEPARTMENT**

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**Biometeorological Services Division**

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**WEEKLY BIOMETEOROLOGICAL BULLETIN (9<sup>TH</sup> JANUARY–15<sup>TH</sup> JANUARY, 2024)**

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### **1.0 PREAMBLE**

Biometeorology is an interdisciplinary science of interactions between atmospheric processes and living organisms - plants, animals and human-beings. The Biometeorological Services Division collects, analyzes and interprets Meteorological and Health data in liaison with partners in the Health Sector for advisory development.

The weather information provided is aimed at guiding residents to identify and recognize the likelihood of occurrence of weather-related health diseases according to the issued advisories and take necessary action.

### **REVIEW FOR LAST WEEK (1<sup>ST</sup> JANUARY, 2024– 7<sup>TH</sup> JANUARY, 2024)**

#### **1.1 High Rainfall**

This section lists stations recorded more than 50mm total rainfall in the last 7 days. This is shown in Table 1 below.

**Table 1:**

<b>Station</b>	<b>Total weekly Rainfall</b>
Kakamega Met	103.9mm
Kericho Met	91.4mm
Dagoretti C	68.9mm
Ngong Met	64.2mm
M.A.B Met	52.2mm
Machakos Met	51.0mm

#### **1.2 High Temperatures**

This section lists stations that recorded average temperatures exceeding 35°C in the last 7 days. This is shown in Table 2 below.

**Table 2:**

<b>Station</b>	<b>Average weekly maximum temperature</b>
Lodwar Met	37.2°C

### 1.3 Low Temperatures

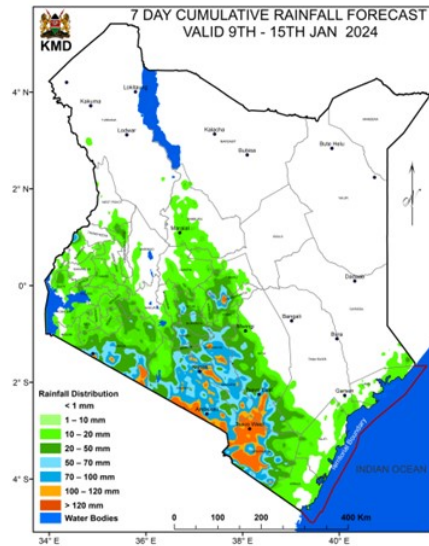
This section lists stations that recorded average temperatures below 10°C in the last 7 days. All stations recorded average temperatures exceeding 10°C in the last 7 days.

### 1.4 High Winds

This section list stations that recorded winds with speeds of more than 25 knots (12.9 metres per sec) in the last 7 days. This was recorded in Marsabit met station.

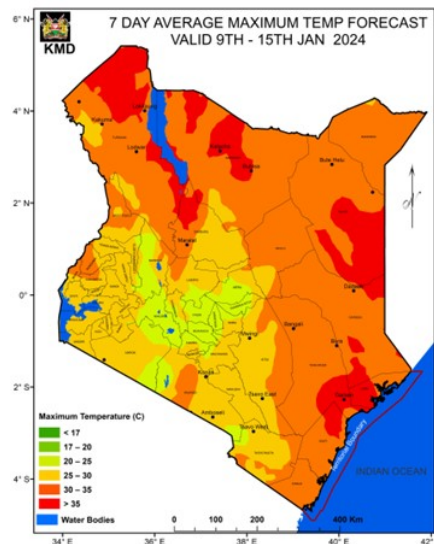
## 2.0 FORECAST FOR 9<sup>TH</sup> JANUARY, 2024– 15<sup>TH</sup> JANUARY, 2024

### a) Rainfall



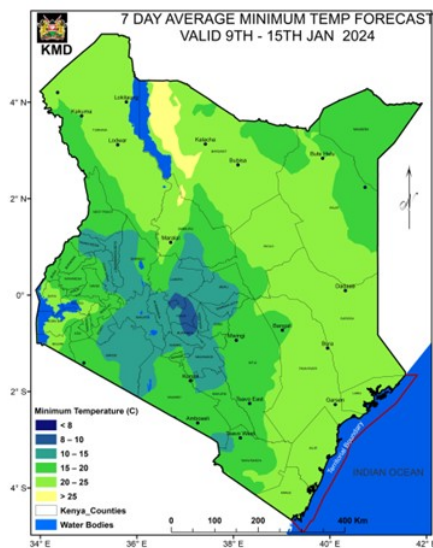
Rainfall exceeding 50mm is expected over parts of Narok, Kajiado, Kitui, Taita taveta, Kisii, Migori and Machakos counties during the forecast period (Tuesday 9<sup>th</sup> January, 2024 to Monday 15<sup>th</sup> January, 2024).

### b) High Temperature



Maximum Temperatures exceeding 35°C is expected over parts of Turkana (Lodwar), Garissa, Wajir, Lamu, Taita taveta (Garsen) and Mandera Counties during the forecast period (Tuesday 9<sup>th</sup> January, 2024 to Monday 15<sup>th</sup> January, 2024).

### c) Low Temperature



Minimum temperature of less than  $10^{\circ}\text{C}$  is expected over parts of Nyandarua (Nyahururu), Kirinyaga, Nyeri, Laikipia and Muranga Counties during the forecast period (Tuesday 9<sup>th</sup> January, 2024 to Monday 15<sup>th</sup> January, 2024).

### c) Winds

Winds of more than 25 knots (12.9m/s) are expected over parts of Marsabit, Malindi, Mombasa, Mandera and Lamu Counties during the forecast period (Tuesday 9<sup>th</sup> January, 2024 to Monday 15<sup>th</sup> January, 2024).

## 3.0 Advisories

**i) Areas expected to receive more than 50 mm of weekly total rainfall have a high likelihood of occurrence of waterborne diseases (e.g. diarrhea) and Vector borne diseases (e.g. Malaria), especially in areas with poor drainage. Residents are advised to be on the lookout for such diseases and take necessary action.**

**ii) Residents living in areas expected to experience temperatures of more than  $35^{\circ}\text{C}$  have a high risk of being infected with skin diseases e.g. skin rash.**

**iii) Areas expected to experience less than  $10^{\circ}\text{C}$  have a high likelihood of occurrence of cold weather diseases. e.g. Asthma, pneumonia, common cold and flu. Residents are advised to be on the lookout for such diseases and take necessary action.**

**iv) Winds of more than 25 knots (12.9m/s).** These winds are strong enough and able to blow dust especially over bare grounds. The blown dust may increase the risk of respiratory infections e.g. Cold and flu diseases. These diseases are quite common during the dry weather conditions. Residents are advised to be on the lookout for such diseases and take necessary protective measures.

**N. B: This forecast is to be used together with the daily (24-hour) forecast issued by this Department.**

Dr Gikungu

**DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT**