



**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 (23<sup>RD</sup> APRIL–29<sup>TH</sup> APRIL, 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.

**Summary**

Heavy rainfall can cause flooding and water contamination, leading to the water-borne diseases such as cholera and typhoid fever. Mosquitoes and other insects that carry diseases such as dengue fever, malaria and Zika virus thrive in warm and humid conditions, which can be created by heavy rainfall. Rain can lead to increase in respiratory illnesses and pneumonia due to dampness and mold growth.

**REVIEW FOR LAST WEEK (15<sup>TH</sup> APRIL, 2024– 21<sup>ST</sup> APRIL, 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>
Dagoretti C	255.0mm
Thika Met	222.9mm
Ngong Met	164.5mm
Machakos Met	148.5mm
Eldoret Met	144.8mm
Kabete Met	123.8mm
Wilson A/port	113.6mm
Nyahururu Met	101.6mm
Kitale Met	97.1mm
Mandera Met	95.0mm

Mtwapa Met	85.2mm
M.A. B	85.1mm
Kakamega Met	83.3mm
Kabarak Met	82.3mm
Lodwar Met	77.0mm
JKIA	71.0mm
Mombasa Met	65.7mm
Kitui Met	63.2mm
Eldoret A/port	61.5mm
Narok Met	58.4mm

## 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:**

Station	Average weekly maximum temperature
Mandera Met	38.2°C

## 1.3 Low Temperatures

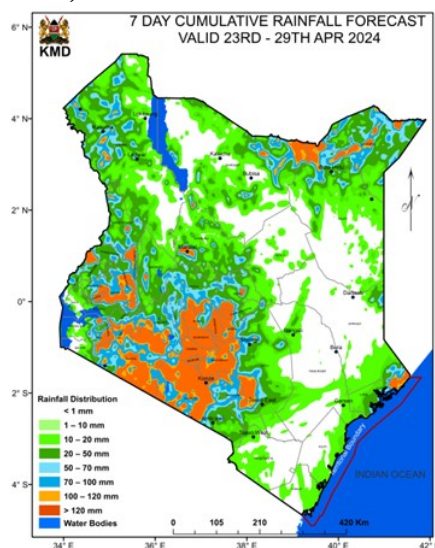
This section lists stations that recorded average temperatures below 10°C in the last 7 days. All stations recorded temperatures exceeding 10°C.

## 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.

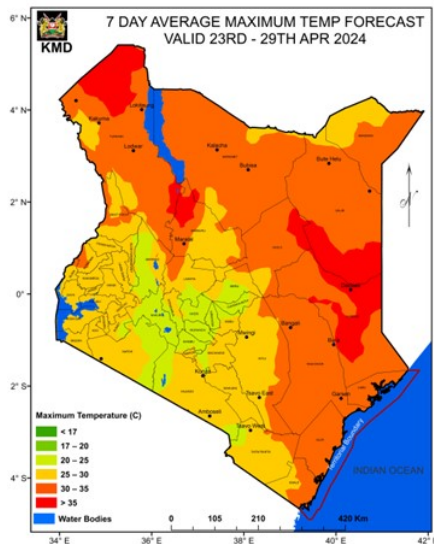
## 2.0 FORECAST FOR 23RD APRIL, 2024– 29<sup>TH</sup> APRIL, 2024

### a) Rainfall



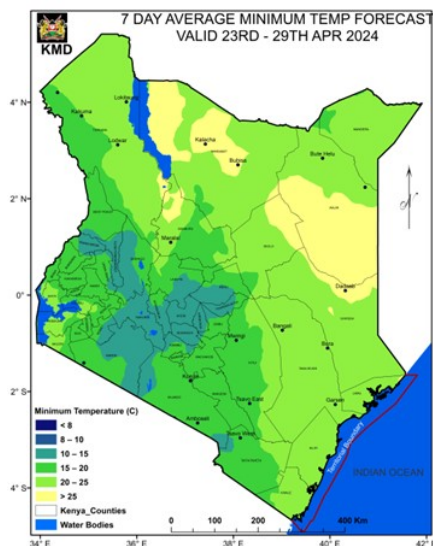
Rainfall amounts exceeding 50mm is expected over parts of Kakamega, Bomet, Vihiga, Nyamira, Kiambu, Murang'a, Narok, Nairobi, Kisii, Kisii, Murang'a, Kirinyaga, Nyeri, Nandi, Uasin gishu, Samburu and Elgeyo marakwet counties during the forecast period (Tuesday 23<sup>rd</sup> April, 2024 to Monday 29<sup>th</sup> April, 2024).

## b) High Temperature



Maximum Temperatures exceeding 35°C is expected over parts of Turkana (Lodwar), Samburu and Wajir Counties during the forecast period (Tuesday 23<sup>rd</sup> April, 2024 to Monday 29<sup>th</sup> April, 2024).

## c) Low Temperature



Minimum temperature of less than 10°C is expected over parts of Nyandarua (Nyahururu) county during the forecast period (Tuesday 23<sup>rd</sup> April, 2024 to Monday 29<sup>th</sup> April, 2024).

## c) Winds

Winds of more than 25 knots (12.9m/s) are expected over parts of Turkana (Lodwar), Marsabit, Lamu, Mombasa and Kilifi (Mtwapa, Malindi, Msabaha) Counties during the forecast period (Tuesday 23<sup>rd</sup> April, 2024 to Monday 29<sup>th</sup> April, 2024). During rainy season the winds have less risk on the human health since there is no dust.

### 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°C** have a high risk of being infected with skin diseases e.g. skin rash.

**iii) Areas expected to experience less than 10°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. David Gikungu

**DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT**