



REPUBLIC OF KENYA

MINISTRY OF ENVIRONMENT, CLIMATE CHANGE AND FORESTRY

KENYA METEOROLOGICAL DEPARTMENT

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Biometeorological Services Division

WEEKLY BIOMETEOROLOGICAL BULLETIN (7TH MAY–13TH MAY, 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 (29TH APRIL, 2024–5TH MAY, 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:

Station	Total weekly Rainfall
Machakos Met	239.9mm
Dagoretti C	223.4mm
Moi airbase	216.2mm
Wilson A/port	207.9mm
Ngong Met	201.7mm
Kabete Met	190.2mm
Thika Met	171.9mm
Kakamega Met	159.0mm
JKIA	152.4mm
Kericho Met	151.7mm

Eldoret Met	140.7mm
Kabarak Met	139.8mm
Embu Met	130.2mm
Nyahururu Met	124.8mm
Kitui Met	118.7mm
Nyeri Met	117.9mm
Moyale Met	116.6mm
Marsabit Met	107.1mm
Eldoret A/port	99.5mm
Meru Met	93.6mm
Laikipia Met	78.1mm

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
Garissa Met	35.6°C

1.3 Low Temperatures

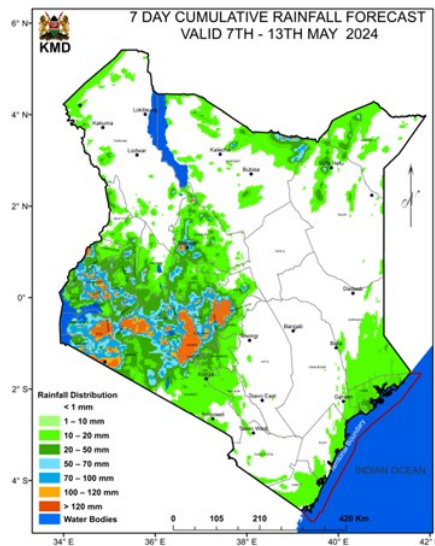
This section lists stations that recorded average temperatures below 10°C in the last 7 days. All stations recorded average weekly temperatures exceeding 10°C.

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 station.

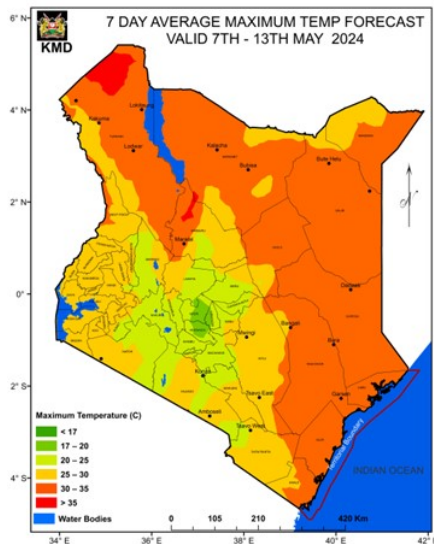
2.0 FORECAST FOR 7TH MAY, 2024– 13TH MAY, 2024

a) Rainfall



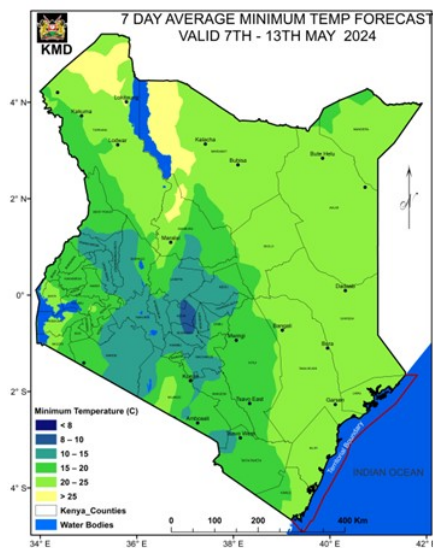
Rainfall amounts exceeding 50mm is expected over parts of Bomet, Vihiga, Nyamira, Kiambu, Murang'a, Nairobi, Nakuru, Lamu, Mumias, Kisii, Kirinyaga, Nandi, Eldoret, Kericho, Kilifi (Mtwapa, Msabaha, Malindi) Bungoma and Mombasa counties during the forecast period (Tuesday 7th May, 2024 to Monday 13th May, 2024).

b) High Temperature



Maximum Temperatures exceeding 35°C is expected over parts of Turkana (Lodwar) and Samburu Counties during the forecast period (Tuesday 7th May 2024 to Monday 13th May, 2024).

c) Low Temperature



Minimum temperature of more than 10°C is expected over parts of country during the forecast period (Tuesday 7th May, 2024 to Monday 13th May, 2024).

c) Winds

Winds of more than 25 knots (12.9m/s) are expected over parts of Marsabit, Lamu, Garissa, Isiolo, Mombasa and Kilifi (Mtwapa, Malindi, Msabaha) Counties during the forecast period (Tuesday 7th April, 2024 to Monday 13th May, 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 Gikungu

DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT