



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

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Biometeorological Services Division

WEEKLY BIOMETEOROLOGICAL BULLETIN (28TH NOVEMBER to 4TH DECEMBER, 2023)

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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 (20TH NOVEMBER – 26TH NOVEMBER, 2023)

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
Meru Met	209.1mm
Kangema Met	174.8mm
Garissa Met	164.2mm
Embu Met	145.0mm
Machakos Met	121.0mm
Kitui Met	117.6mm
Makindu Met	112.7mm
Kericho Met	110.7mm
Mtwapa Met	104.0mm
Dagoretti C	99.6mm

Kisumu Met	96.6mm
Thika Met	93.9mm
M.A.B Met	85.9mm
Voi Met	85.5mm
Wilson Met	82.6mm
Kisii Met	82.0mm
Nyeri Met	78.1mm
Kabarak Met	74.8mm
Mombasa Met	69.2mm
Kabete Met	68.7mm
Ngong Met	66.4mm
Narok Met	64.4mm

1.2 High Temperatures

This section lists stations that recorded average temperatures exceeding 35°C in the last 7 days. All stations recorded average temperatures **not** exceeding 35°C

1.3 Low Temperatures

This section lists stations that recorded average temperatures below 10°C in the last 7 days. This is shown in Table 2 below.

Table 2:

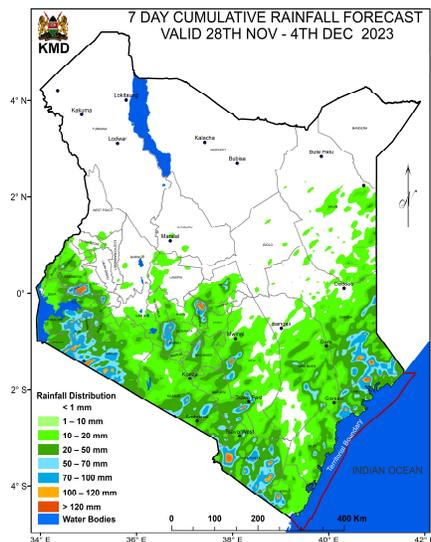
Station	Average weekly minimum temperature
Nyahururu Met	6.7°C

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.

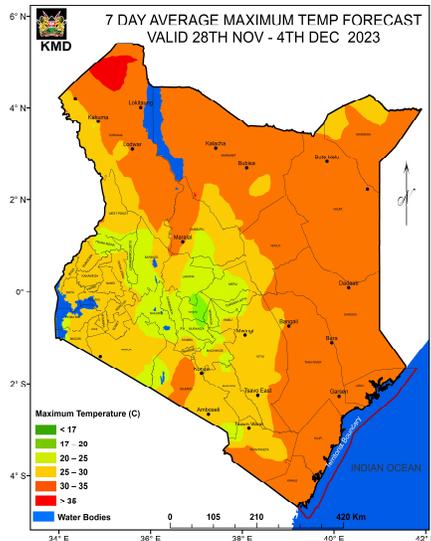
2.0 FORECAST FOR 28TH NOVEMBER to 4TH DECEMBER, 2023

a) Rainfall



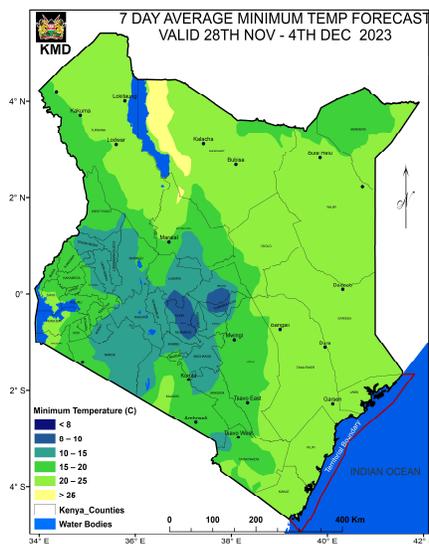
Rainfall exceeding 50mm is expected over parts of Taita taveta, Kwale, Garissa, Kitui, Narok, Vihiga, Nandi, Tharaka Nithi, Garissa, Lamu, Kilifi (Mtwapa) and Mombasa counties during the forecast period (Tuesday 28th November, 2023 to Monday 4th December, 2023).

b) High Temperature



Maximum Temperatures exceeding 35°C is expected over parts of Turkana County during the forecast period (Tuesday 28th November 2023 to Monday 4th December, 2023).

c) Low Temperature



Minimum temperature of less than 10°C is expected over parts of Nyandarua (Nyahururu), Nakuru, Tharaka nithi, Nyeri, Muranga and Kirinyaga Counties during the forecast period (Tuesday 28th November, 2023 to Monday 4th November, 2023).

c) Winds

Winds of more than 25 knots (12.9m/s) are expected over parts of Kericho and Marsabit Counties, during the forecast period (Tuesday 28th November, 2023 to Monday 4th December, 2023). **Less risk of dust related diseases since we are in the rainy season in most parts of the Country.**

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.

Bernard Chanzu

FOR DIRECTOR OF METEOROLOGICAL SERVICES