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KENYA METEOROLOGICAL DEPARTMENT
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Biometeorological Services Division

WEEKLY BIOMETEOROLOGICAL BULLETIN (9TH APRIL–15TH 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 (1ST APRIL, 2024– 7TH 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:

Station	Total weekly Rainfall
Nyeri Met	169.3mm
Kangema Met	146.3mm
Suba Met	141.9mm
Kisii Met	128.7mm
Thika Met	122.1mm
M.A.B Met	120.8mm
Wajir Met	114.4mm
Nyahururu Met	110.4mm
Machakos Met	108.6mm
Embu Met	105.6mm

Kericho Met	94.7mm
Kabete Met	87.1mm
Kabarak Met	86.9mm
Moyale Met	86.8mm
Lodwar Met	75.4mm
Wilson A/port	72.1mm
Dagoretti C	67.6mm
Malindi Met	63.6mm
Marsabit Met	58.8mm

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	36.4°C
Garissa Met	36.2°C

1.3 Low Temperatures

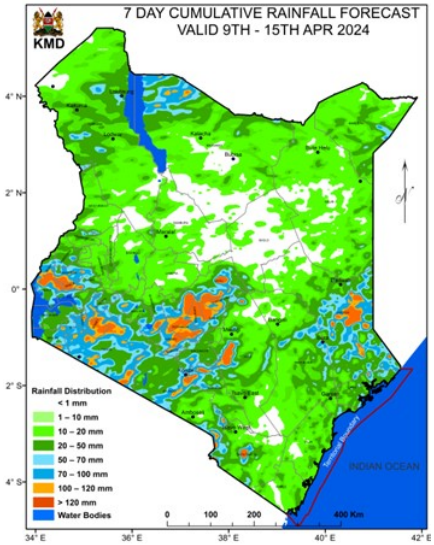
This section lists stations that recorded average temperatures below 10°C in the last 7 days. All stations recorded temperatures exceeding 10°C.

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.

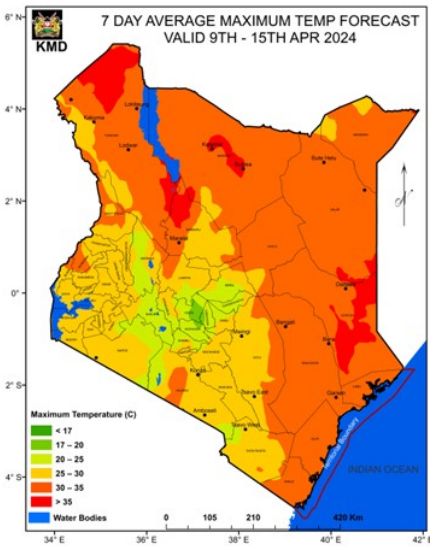
2.0 FORECAST FOR 9TH APRIL, 2024– 15TH APRIL, 2024

a) Rainfall



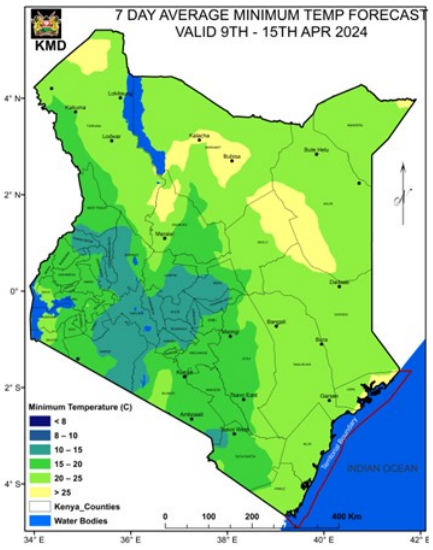
Rainfall amounts exceeding 50mm is expected over parts of Kakamega, Bungoma, Busia, Siaya, Kericho, Migori, Vihiga, Nyamira, Mumias, Kiambu, Murang'a, Narok, Kisumu, Garissa, Turkana (Lodwar), Marsabit, Eldoret, Nakuru, Nairobi, Kisii, and Kilifi counties during the forecast period (Tuesday 9th April, 2024 to Monday 15th April, 2024).

b) **High Temperature**



Maximum Temperatures exceeding 35°C is expected over parts of Turkana (Lodwar), Garissa, Marsabit and Samburu Counties during the forecast period (Tuesday 9th April, 2024 to Monday 15th 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 9th April, 2024 to Monday 15th April, 2024).

c) **Winds**

Winds of more than 25 knots (12.9m/s) are expected over parts of Marsabit, Lamu and Kilifi (Msabaha) Counties during the forecast period (Tuesday 9th April, 2024 to Monday 15th April, 2024**).** During rainy season the winds have less risk on the human health since 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