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MINISTRY OF ENVIRONMENT & FORESTRY
KENYA METEOROLOGICAL DEPARTMENT

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Our Ref: MET/7/174

Issue date: 26 September 2022

SEVEN-DAY WEATHER FORECAST VALID FROM 27 SEPTEMBER TO 3 OCTOBER 2022

HIGHLIGHTS

Forecast for 27 Sept-3 Oct 2022

- Rainfall is expected over some parts of the Highlands West of the Rift Valley, the Lake Victoria Basin, the Central Rift Valley, the Highlands East of the Rift Valley and the Coast.

Weather Review for 19-25 September 2022

- Several parts of the Highlands West of the Rift Valley, the Lake Victoria Basin, the Central Rift Valley and the Coast as well as a few areas in the Highlands East of the Rift Valley and the South-eastern lowlands recorded rainfall.
- Day-time (maximum) temperatures increased throughout the country while night-time (minimum) temperatures increased over some stations and decreased over others.

1 FORECAST FOR 27 SEPTEMBER TO 3 OCTOBER 2022

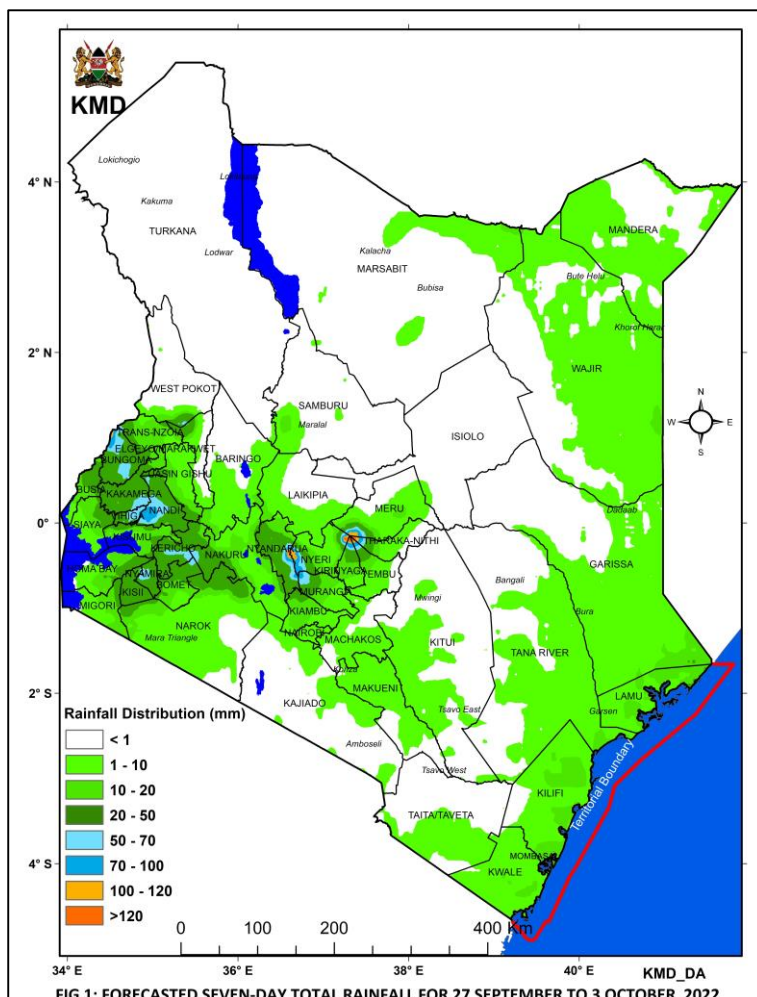
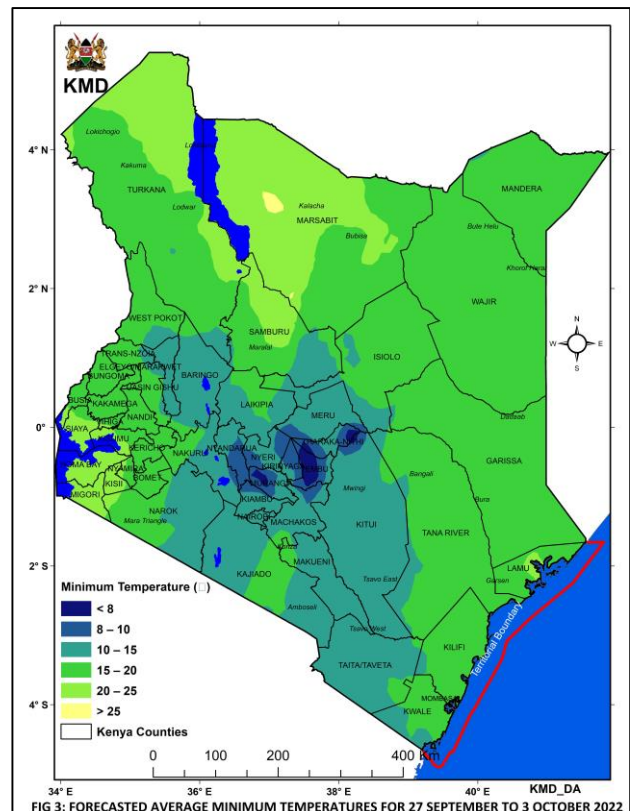
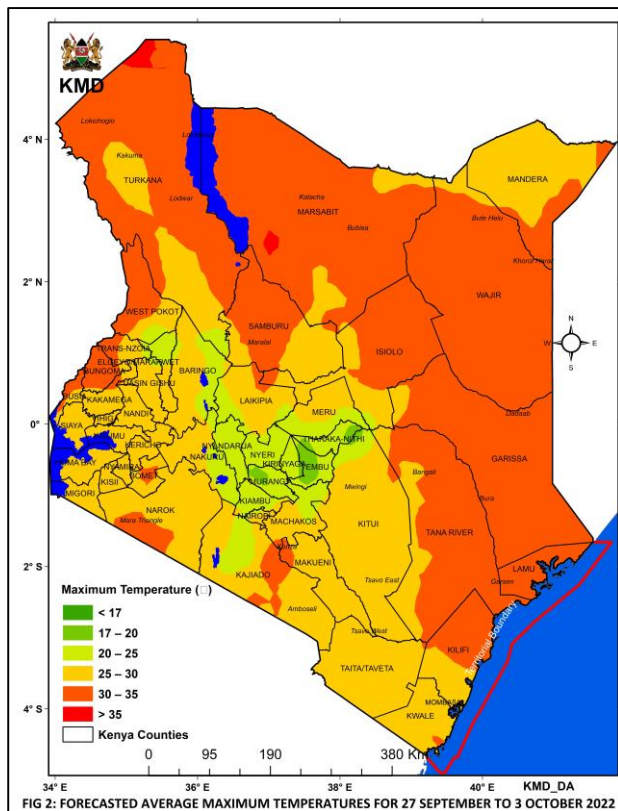


FIG 1: FORECASTED SEVEN-DAY TOTAL RAINFALL FOR 27 SEPTEMBER TO 3 OCTOBER 2022

Rainfall is expected over some parts of the Highlands West of the Rift Valley, the Lake Victoria Basin, the Central Rift Valley, the Highlands East of the Rift Valley and the Coast as depicted by **Figure 1**.

Average daytime (maximum) temperatures are likely to be high (more than 30°C) over several parts of the country including North-western and North-eastern Kenya as depicted by **Figure 2**. Average night-time (minimum) temperatures are likely to be low (less than 10°C) over some parts of the Highlands East of the Rift Valley as depicted by **Figure 3**.



1.1 DETAILED REGIONAL FORECAST FOR 27 SEPTEMBER TO 3 OCTOBER 2022

1.1.1 The Highlands West of the Rift Valley, the Lake Victoria Basin and the Central and South Rift Valley (Kisii, Nyamira, Trans-Nzoia, Uasin-Gishu, Elgeyo-Marakwet, Nandi, Kericho, Bomet, Kakamega, Vihiga, Bungoma, West-Pokot, Siaya, Kisumu, Homabay, Busia, Migori, Baringo, Nakuru and Narok Counties):

Mornings are likely to be generally sunny though occasional rains may occur over few places. Afternoon showers and thunderstorms are likely to occur over few places occasionally spreading to several places. Nights are likely to be partly cloudy with a possibility of showers over few places.

Maximum (day-time) temperatures are likely to be about 23°C in Kericho but may rise to 31°C in Suba. Minimum (night-time) temperatures are expected to reach 08°C in Eldoret and be as high as 22°C in Kakamega.

1.1.2 North-western Kenya (Turkana and Samburu Counties):

Days are expected to be sunny and nights partly cloudy.

Maximum (day-time) temperatures are likely to be as high as 37°C in Lodwar but may drop to 25°C in Maralal. Minimum (night-time) temperatures are expected to go down to 10°C in Maralal and be much warmer in Lodwar at about 27°C.

1.1.3 The Highlands East of the Rift Valley (including Nairobi County) (*Nyandarua, Laikipia, Nyeri, Kirinyaga, Murang'a, Kiambu, Meru, Embu, Tharaka-Nithi and Nairobi Counties*):

Intermittent cloudiness is expected in the morning giving way to sunny intervals. Occasional afternoon showers are likely to occur over few places. Nights are likely to be generally partly cloudy.

Maximum (day-time) temperatures are likely not to exceed 30°C in Thika while in Nyahururu they may be about 22°C. Minimum (night-time) temperatures are expected to drop to 05°C in Nyahururu while in Nairobi they may peak at 16°C.

1.1.4 North-eastern Kenya (*Marsabit, Mandera, Wajir, Garissa and Isiolo Counties*):

Days are expected to be sunny and nights partly cloudy. There is, however, a possibility of morning rains occurring over few places.

Maximum (day-time) temperatures are likely to rise to 38°C in Mandera while Moyale may be cooler at about 24°C. Minimum (night-time) temperatures are expected to go down to 16°C in Marsabit and be as high as 26°C in Mandera.

1.1.5 The South-eastern lowlands (*Machakos, Kitui, Makueni, Kajiado and Taita-Taveta Counties*):

Days are expected to be sunny and nights partly cloudy. However, there is a possibility of afternoon showers occurring over few places.

Maximum (day-time) temperatures are likely to be as high as 33°C in Kitui but may be as low as 24°C in Ngong. Minimum (night-time) temperatures are expected to drop to 10°C in Machakos while Kitui may experience warmer temperatures of about 22°C.

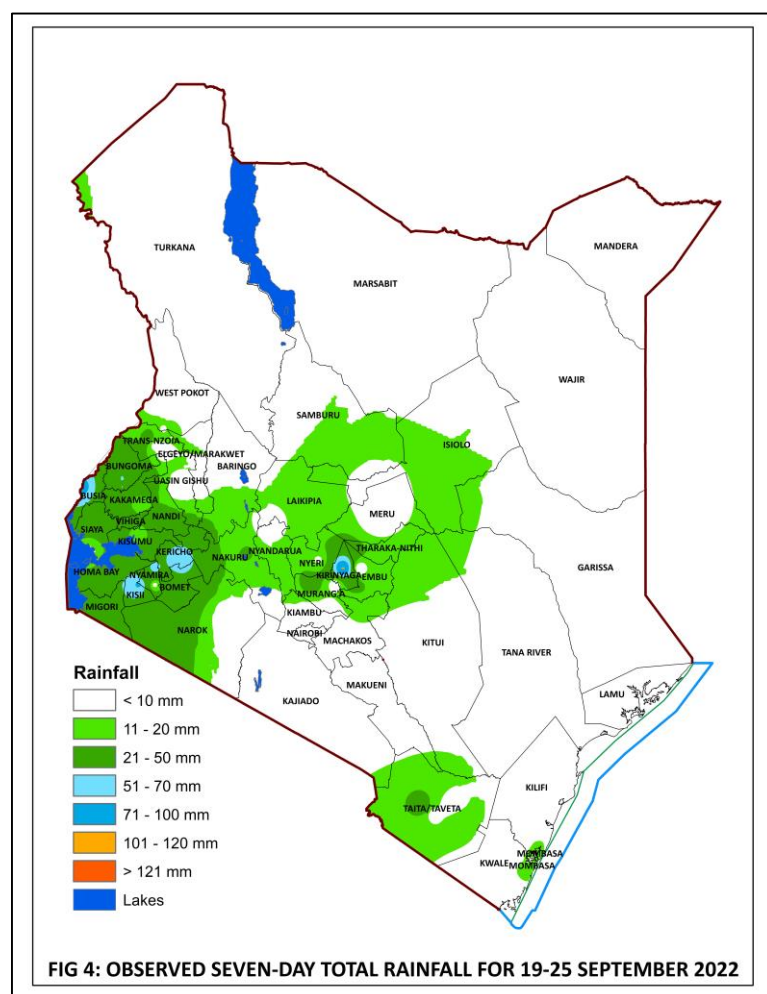
1.1.6 The Coast (*Mombasa, Tana-River, Kilifi, Lamu and Kwale Counties*):

Days are expected to be sunny and nights partly cloudy. However, occasional morning showers may occur over few places.

Maximum (day-time) temperatures are likely to be about 27°C in Mombasa while in Lamu they may be as high as 31°C. Minimum (night-time) temperatures are expected to be as low as 22°C in Msabaha but in Lamu they may rise to 25°C.

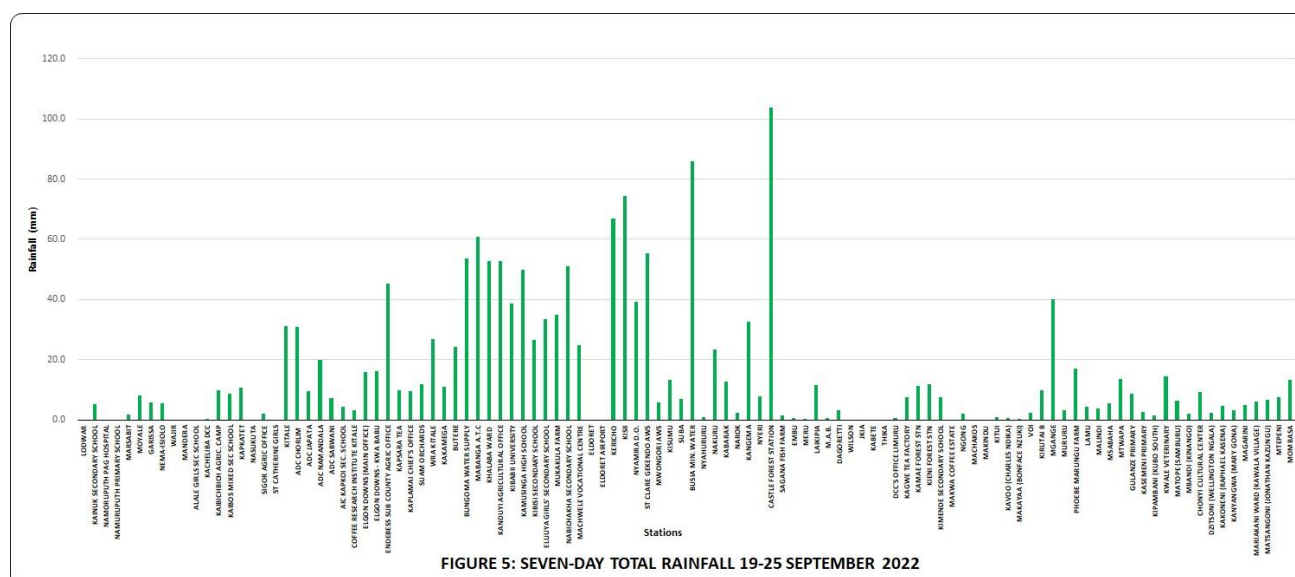
1.2 WEATHER REVIEW FOR 19-25 SEPTEMBER 2022

1.2.1 Rainfall Review



Several parts of the Highlands West of the Rift Valley, the Lake Victoria Basin, the Central Rift Valley and the Coast as well as a few areas in the Highlands East of the Rift Valley and the South-eastern lowlands recorded rainfall as depicted by **Figures 4 & 5**. Much of North-eastern and North-western Kenya remained dry.

Comparing the previous review period (12-18 September 2022) to the current review period (19-25 September 2022), it is noted that there was a slight increase in rainfall amounts over the Highlands East of the Rift Valley and the South-eastern lowlands.



The highest seven-day rainfall total (103.8mm) was recorded at the rainfall station at Castle Forest in Kirinyaga County. Other stations that recorded significant rainfall totals during the review period are shown in **Table 1**.

TABLE 1: STATIONS WITH SIGNIFICANT SEVEN-DAY RAINFALL TOTALS

STATION	COUNTY	SEVEN-DAY TOTAL RAINFALL (mm)
BUSIA MINISTRY OF WATER OFFICE RAINFALL STATION	BUSIA	86.0
KISII METEOROLOGICAL STATION	KISII	74.3
KERICHO METEOROLOGICAL STATION	KERICHO	67.0
MABANGA A.T.C RAINFALL STATION	BUNGOMA	60.9
ST CLARE GEKENDO AUTOMATIC WEATHER STATION	NYAMIRA	55.4
BUNGOMA WATER SUPPLY RAINFALL STATION	BUNGOMA	53.7
KHALABA WARD RAINFALL STATION	BUNGOMA	52.8
KANDUYI AGRICULTURAL OFFICE RAINFALL STATION	BUNGOMA	52.8
NABICHAKHA SECONDARY SCHOOL RAINFALL STATION	BUNGOMA	51.2
KAMUSINGA HIGH SCHOOL RAINFALL STATION	BUNGOMA	50.0

The rainfall station at Castle Forest also recorded the highest amount of rainfall within 24-hours: 72.4mm on 24 September 2022 while Kisii Meteorological Station recorded 38.0mm on 19 September 2022.

1.2.2 Temperature Review

Comparing the previous review (12-18 September 2022) to the current review period (19-25 September 2022), it is noted that day-time (maximum) temperatures increased throughout the country. Night-time (minimum) temperatures increased over some stations like Kitui, Mombasa and Marsabit and decreased over Nyahururu, Kitale and Eldoret among other stations.

Mandera Meteorological Station recorded the highest daily maximum temperature: 38.3°C on 24 September 2022 while Nyahururu Meteorological Station recorded the lowest daily minimum temperature: 4.6°C on 23 September 2022. The same stations recorded the highest seven-day average maximum temperature and the lowest seven-day average minimum temperature: 36.4°C and 5.3°C respectively (See **Figure 6**).

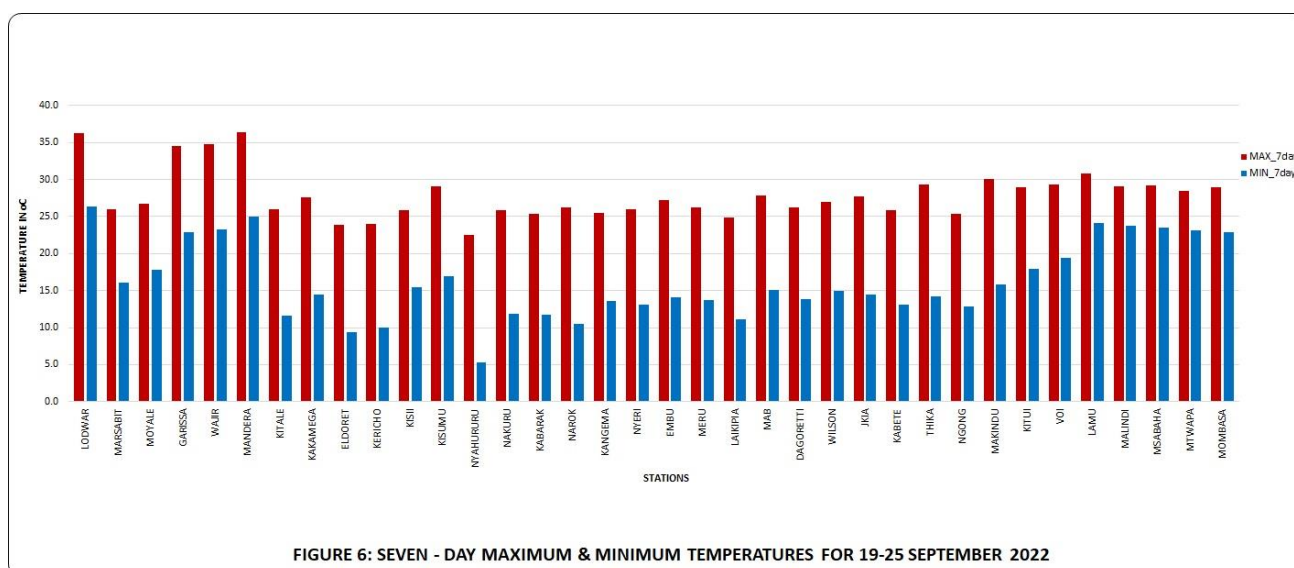


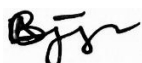
FIGURE 6: SEVEN - DAY MAXIMUM & MINIMUM TEMPERATURES FOR 19-25 SEPTEMBER 2022

N.B: This forecast should be used in conjunction with the daily (24-hour) and five-day forecasts issued by this Department. County specific forecasts are available from the offices of respective County Directors of Meteorology.

KEY OF SCIENTIFIC WORDS USED

<i>24-hour rainfall categories</i>	
<i>Range</i>	<i>Category</i>
<5mm	Light
5-20mm	Moderate
20-50mm	Heavy
>50mm	Very heavy

<i>Rainfall coverage</i>	
<i>Term</i>	<i>Meaning</i>
Most places	Between 66% and 100%
Several places	Between 33% and 66%
Few places	Less than 33%



Benard Chanzu

FOR DIRECTOR OF METEOROLOGICAL SERVICES