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SEVEN-DAY WEATHER FORECAST VALID FROM 26 SEPTEMBER TO 2 OCTOBER 2023

HIGHLIGHTS

Forecast for 26 Sept to 2 Oct 2023

- Rainfall is expected to continue over several parts of the country including the Highlands East and West of the Rift Valley, the Lake Victoria Basin, the Rift Valley and the Coast.

Weather Review for 18 to 24 September 2023

- Rainfall continued to be recorded in some parts of the Highlands East and West of the Rift Valley, the Lake Victoria Basin, the Rift Valley and the Coast.
- Day-time (maximum) temperatures increased over much of the country with only a few stations like Kisii, Narok and Laikipia recording slight decreases.
- Night-time (minimum) temperatures also increased over most stations with the exception of a few like Kericho, Eldoret and Nyahururu.

1 FORECAST FOR 26 SEPTEMBER TO 2 OCTOBER 2023

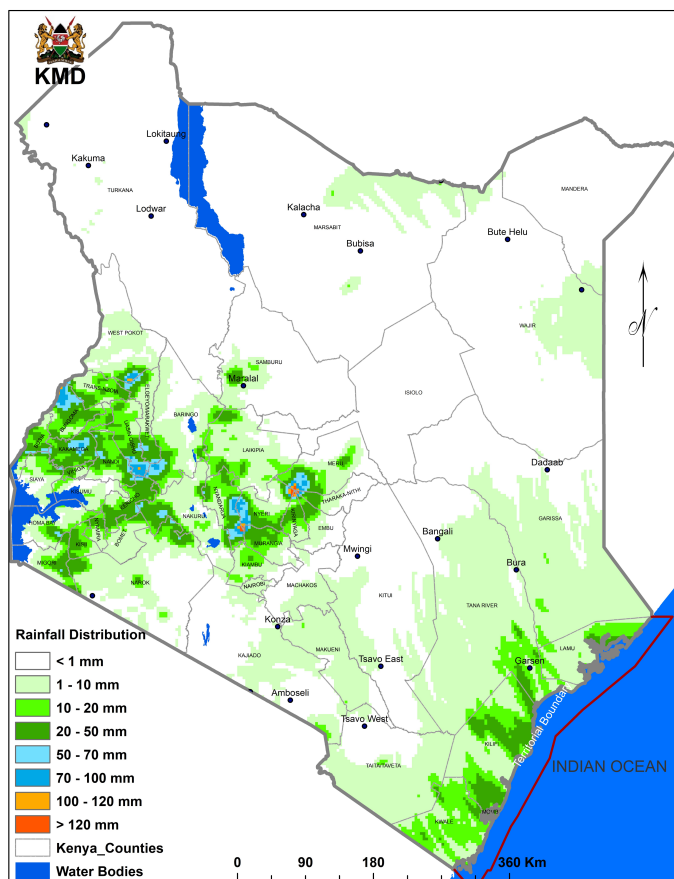


FIG 1: FORECASTED SEVEN-DAY TOTAL RAINFALL FOR 26 SEPTEMBER TO 2 OCTOBER 2023

Rainfall is expected to continue over several parts of the country including the Highlands East and West of the Rift Valley, the Lake Victoria Basin, the Rift Valley and the Coast as depicted by **Figure 1**. The rest of the country is likely to be generally dry.

Several parts of the country including the Coast, North-eastern and North-western Kenya will experience high average daytime (maximum) temperatures of more than 30°C as depicted by **Figure 2**.

A few areas in the Highlands East of the Rift Valley, the South-eastern lowlands, the Rift Valley and the Highlands West of the Rift Valley will experience low average night-time (minimum) temperatures of less than 10°C as depicted by **Figure 3**.

Occasional morning cloudiness is expected over some parts of the Highlands East and West of the Rift Valley and the South-eastern lowlands.

Strong south-easterly winds at speeds exceeding 25 knots (12.9m/s) are expected over some parts of North-eastern and North-western Kenya.

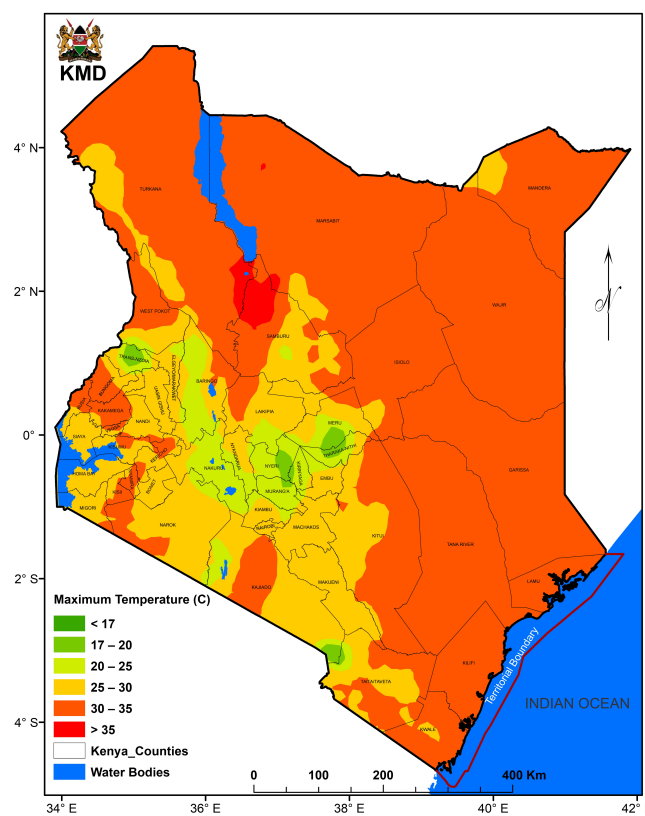


FIG 2: FORECASTED AVERAGE MAXIMUM TEMPERATURES FOR 26 SEPTEMBER TO 2 OCTOBER 2023

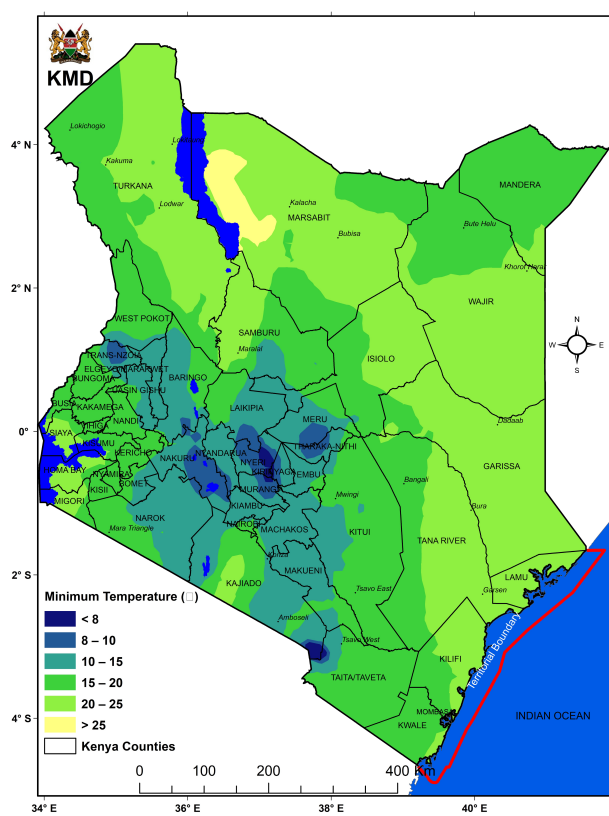


FIG 3: FORECASTED AVERAGE MINIMUM TEMPERATURES FOR 26 SEPTEMBER TO 2 OCTOBER 2023

1.1 DETAILED REGIONAL FORECAST FOR 26 SEPTEMBER TO 2 OCTOBER 2023

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

Morning rains are expected over few places. Afternoon showers and thunderstorms are likely to occur over few places occasionally spreading to several places. Night showers are expected over few places.

In Kisumu maximum (day-time) temperatures will be as high as 30°C with minimum temperatures reaching 16°C.

For Kericho maximum (day-time) temperatures will rise to 26°C while minimum (night-time) temperatures will drop to 09°C.

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

Days are likely to be sunny and nights partly cloudy. However, morning rains as well as afternoon and night showers and thunderstorms are expected over few places during the first half of the forecast period.

Lodwar will experience high maximum (day-time) temperatures of up to 38°C and nights will also be warm with minimum temperatures approaching 26°C.

Maralal will be cooler with maximum (day-time) temperatures rising to 28°C while minimum (night-time) temperatures will go down to 12°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*):

Mornings are expected to be cloudy with occasional light rains giving way to sunny intervals. Afternoon and night showers are likely to occur over few places.

Maximum (day-time) temperatures will rise to about 32°C in Thika while minimum (night-time) temperatures will be as low as 14°C.

Nyahururu will be generally cool with maximum (day-time) temperatures not exceeding 28°C and minimum (night-time) temperatures dropping to 06°C.

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

Days are likely to be sunny and nights partly cloudy.

Mandera will experience high maximum (day-time) temperatures of up to 39°C and minimum temperatures approaching 25°C.

Marsabit will be cooler with maximum (day-time) temperatures rising to 29°C while minimum (night-time) temperatures will drop to 16°C.

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

Days are likely to be sunny and nights partly cloudy. However, occasional afternoon showers may occur over few places during the second half of the forecast period.

In Voi maximum (day-time) temperatures will rise to 33°C while minimum (night-time) temperatures will drop to 19°C.

Machakos will experience moderate maximum (day-time) temperatures of up to 27°C with minimum (night-time) temperatures dropping to about 12°C.

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

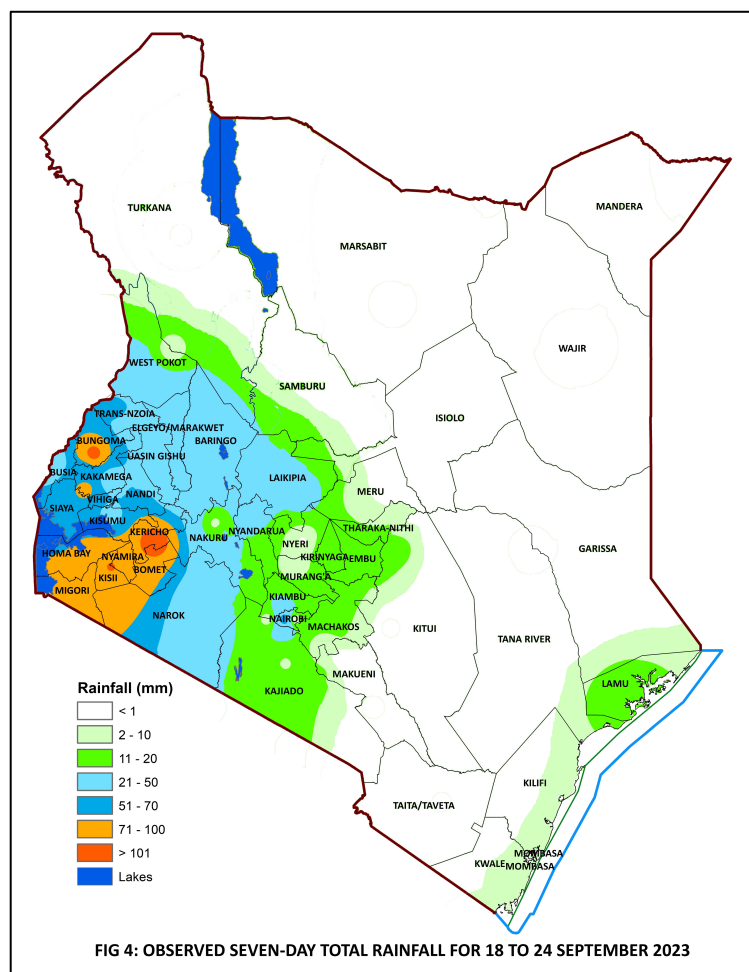
Occasional morning, early afternoon and night showers are expected over few places. The morning and early afternoon showers may spread to several places during the second half of the forecast period.

In Mtwapa, maximum (day-time) temperatures will be as high as 32°C while minimum (night-time) temperatures will drop to 22°C.

Maximum (day-time) temperatures will rise to about 31°C in Mombasa with minimum (night-time) temperatures of up to 22°C.

1.2 WEATHER REVIEW FOR 18 TO 24 SEPTEMBER 2023

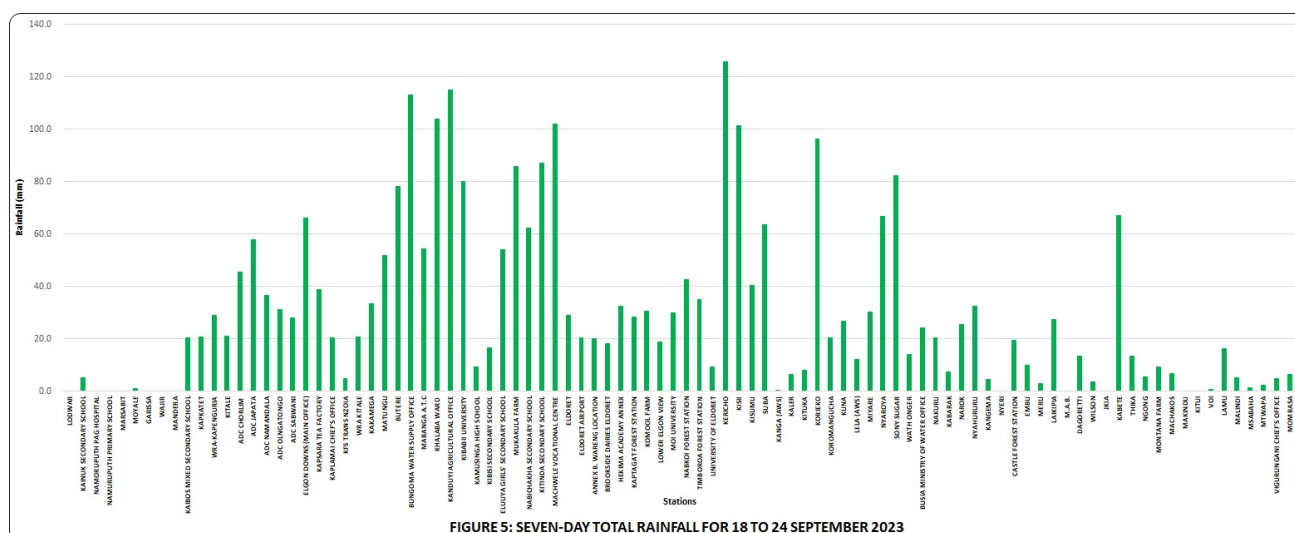
1.2.1 Rainfall Review



Rainfall continued to be recorded in some parts of the Highlands East and West of the Rift Valley, the Lake Victoria Basin, the Rift Valley and the Coast as depicted by **Figures 4 & 5**.

The South-eastern lowlands, North-eastern and North-western Kenya remained generally dry.

Comparing the 11 to 17 September 2023 and the 18 to 24 September 2023 periods, it is noted that there was an increase in rainfall amounts over the Highlands West of the Rift Valley and the Lake Victoria Basin.



The highest seven-day rainfall total (125.8mm) was recorded in Kericho Meteorological Station. 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)
KANDUYI AGRICULTURAL OFFICE RAINFALL STATION	BUNGOMA	114.8
BUNGOMA WATER SUPPLY OFFICE RAINFALL STATION	BUNGOMA	113.1
KHALABA WARD RAINFALL STATION	BUNGOMA	103.9
MACHWELE VOCATIONAL CENTRE RAINFALL STATION	BUNGOMA	102.0
KISII METEOROLOGICAL STATION	KISII	101.3
KORIEKO RAINFALL STATION	MIGORI	96.2
KITINDA SECONDARY SCHOOL RAINFALL STATION	BUNGOMA	87.1
MUKAKULA FARM RAINFALL STATION	BUNGOMA	85.6
SONY SUGAR RAINFALL STATION	MIGORI	82.3
KIBABII UNIVERSITY RAINFALL STATION	BUNGOMA	80.1

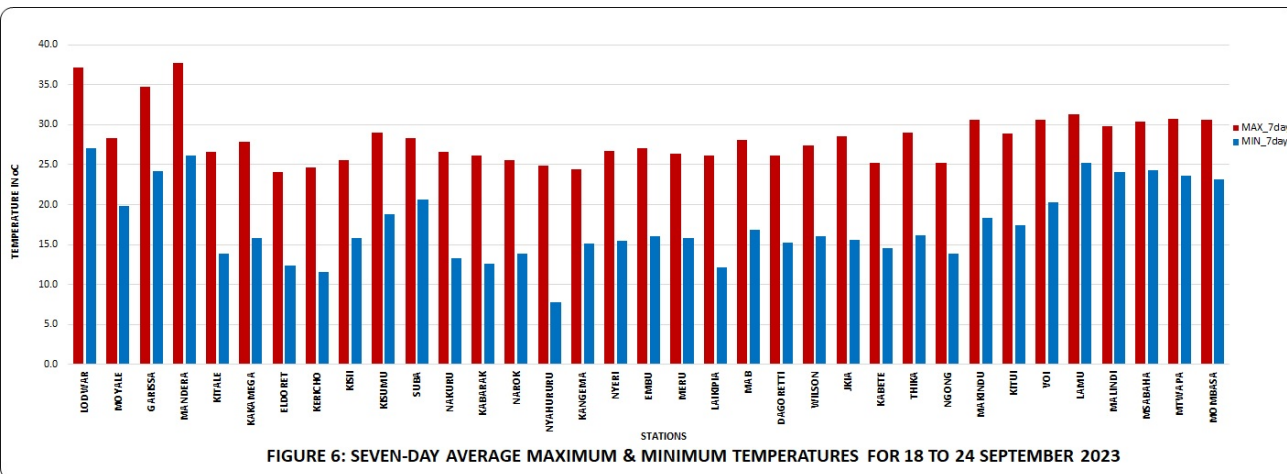
Korieko Rainfall Station in Migori County recorded the highest amount of rainfall within 24-hours: 70mm on 18 September 2023. Other stations that recorded very heavy rainfall (more than 50mm within 24 hours) are shown in **Table 2**.

TABLE 2: STATIONS THAT RECORDED VERY HEAVY RAINFALL			
STATION	COUNTY	AMOUNT (mm)	DATE
NYAROYA RAINFALL STATION	MIGORI	66.6	18 September 2023
SONY SUGAR RAINFALL STATION	MIGORI	55.0	18 September 2023
KITINDA SECONDARY SCHOOL RAINFALL STATION	BUNGOMA	54.0	20 September 2023

1.2.2 Temperature Review

Comparing the 11 to 17 September 2023 and the 18 to 24 September 2023 periods, it is noted that day-time (maximum) temperatures increased over much of the country with only a few stations like Kisii, Narok and Laikipia recording slight decreases. Night-time (minimum) temperatures also increased over most stations with the exception of a few like Kericho, Eldoret and Nyahururu.

Mandera Meteorological Station recorded the highest daily maximum temperature: 39.4°C on 22 September 2023 while Nyahururu Meteorological Station recorded the lowest daily minimum temperature: 6.9°C on 24 September 2023. The same stations recorded the highest seven-day average maximum temperature and the lowest seven-day average minimum temperature: 37.7°C and 7.8°C respectively (see **Figure 6**).



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

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

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

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