



REPUBLIC OF KENYA

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KENYAMETEOROLOGICALDEPARTMENT

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WEATHER FORECAST FOR THE NEXT SEVEN-DAY PERIOD VALID 23RD TO 29TH JULY, 2019

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Review of weather for the last seven-day period (15th to 21st July, 2019):

- Significant rainfall was reported over the Highlands West the Central Rift Valley and the Coast;
- There was an increase in rainfall amounts over the Coast and some parts Highlands West of the Rift Valley;
- Day-time (maximum) temperatures generally decreased over most parts of the country.
- Night-time (minimum) temperatures increased over some areas and decreased over others

Forecast for the next seven days (23rd to 29th July, 2019):

The forecast indicates that:

- Cool cloudy conditions are expected over the Highlands East of the Rift Valley (including Nairobi area).
- Rainfall is expected to continue over the Lake Victoria Basin, the Highlands West of the Rift Valley, the Central and South Rift Valley and the Northwest;
- Strong winds of greater than 25 knots expected over the Eastern half of the country with large waves over the ocean.

1. WEATHER REVIEW FOR THE LAST SEVEN DAYS (15TH TO 21ST JULY, 2019)

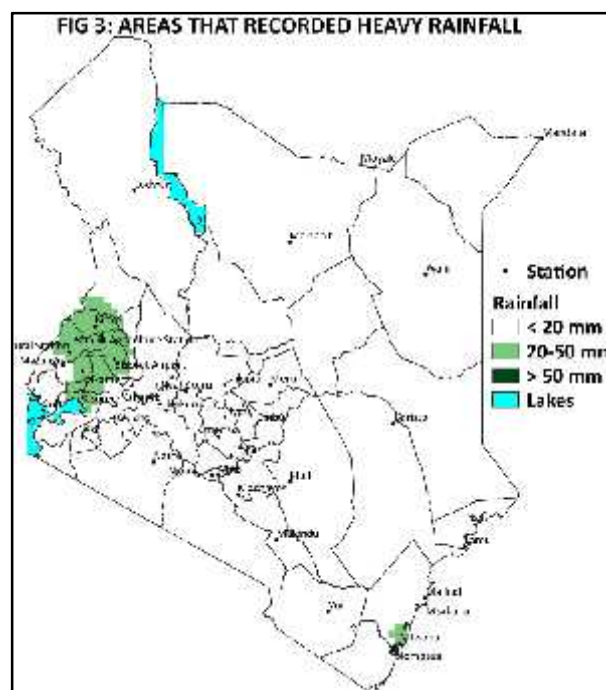
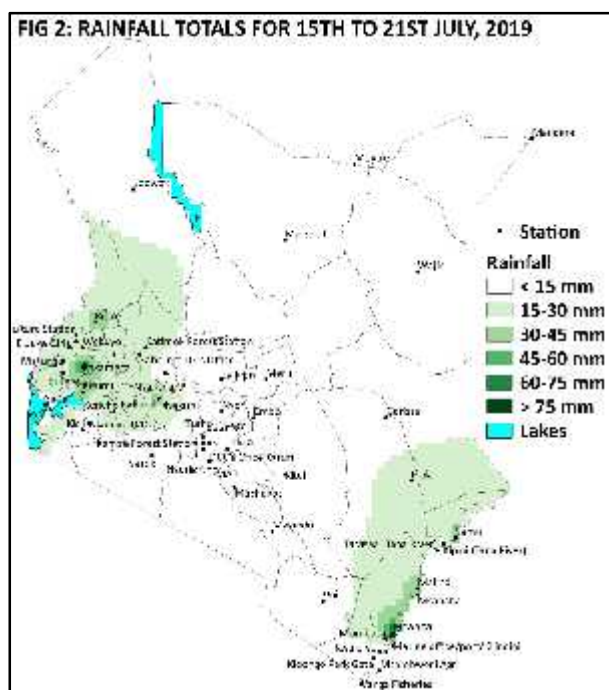
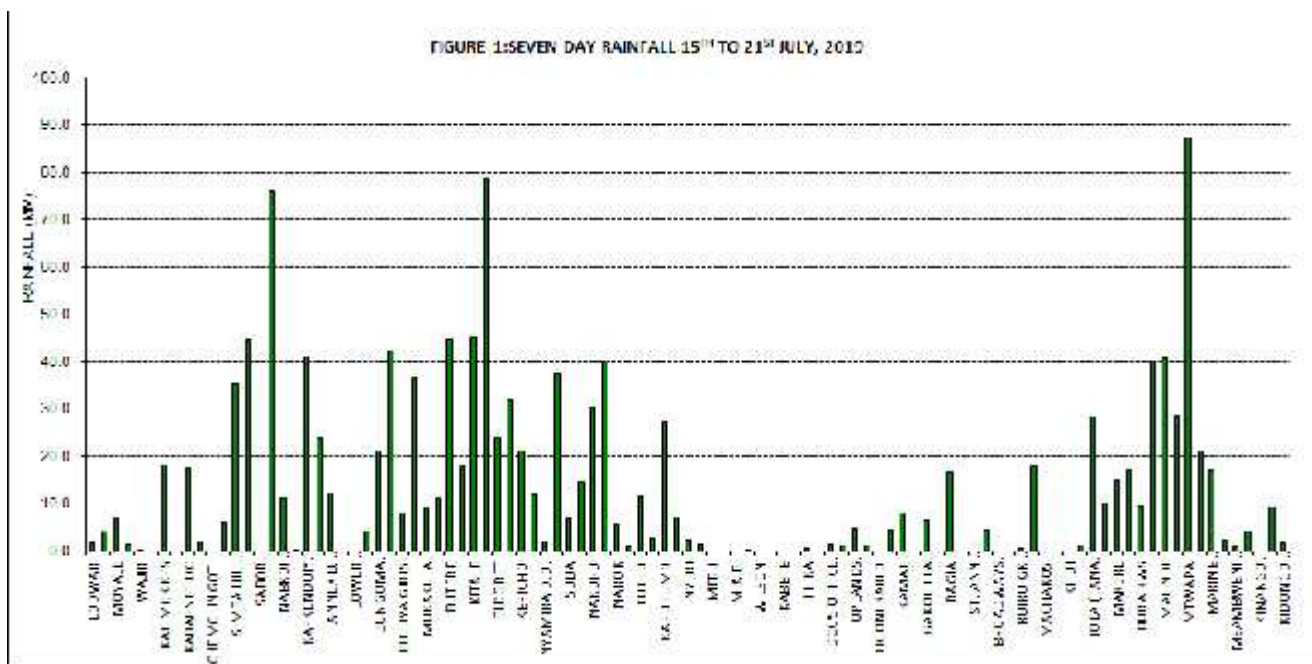
1.1 Rainfall Review

Significant rainfall was reported over the Lake Victoria Basin, the Highlands West of the Rift Valley and the Central and South Rift Valley and the Coast, as depicted in **Figure 1**. The Highlands East of the Rift Valley, the Northeast, and the Northwest received light to moderate rainfall. The Southeast Lowlands remained mainly dry. A comparison between the previous seven days (8th to 14th July, 2019) with the period under review (15th to 21st July, 2019) indicates increases in rainfall amounts over the Coast and some parts Highlands West of the Rift Valley.

Mtwapa Meteorological Station recorded the highest seven-day total rainfall of 87.4mm. Other stations that recorded significant rainfall totals during the review period include Kakamega Meteorological Station (78.8mm), Kakamega Hill School (76.0mm), Kitale Meteorological Station (44.9mm), Butere Rainfall Station in Kakamega County (44.7mm) and Hekima Academy in Uasin Gishu County (44.6mm) as depicted in **Figure 2**.

Heavy rainfall of between 20mm and 50mm within 24 hours was recorded in various parts of the country including Kanduyi Agricultural Station in Bungoma County (38.2mm on 16th July, 2019),

Mtwapa Meteorological Station (37.1mm on 16th July, 2019), Kisumu Meteorological Station (36.8mm on 19th July, 2019), Kakamega Meteorological Station (34.9mm on 15th July, 2019), and Eldoret International Airport (29.5mm on 20th July, 2019) as depicted in **Figure 3**.

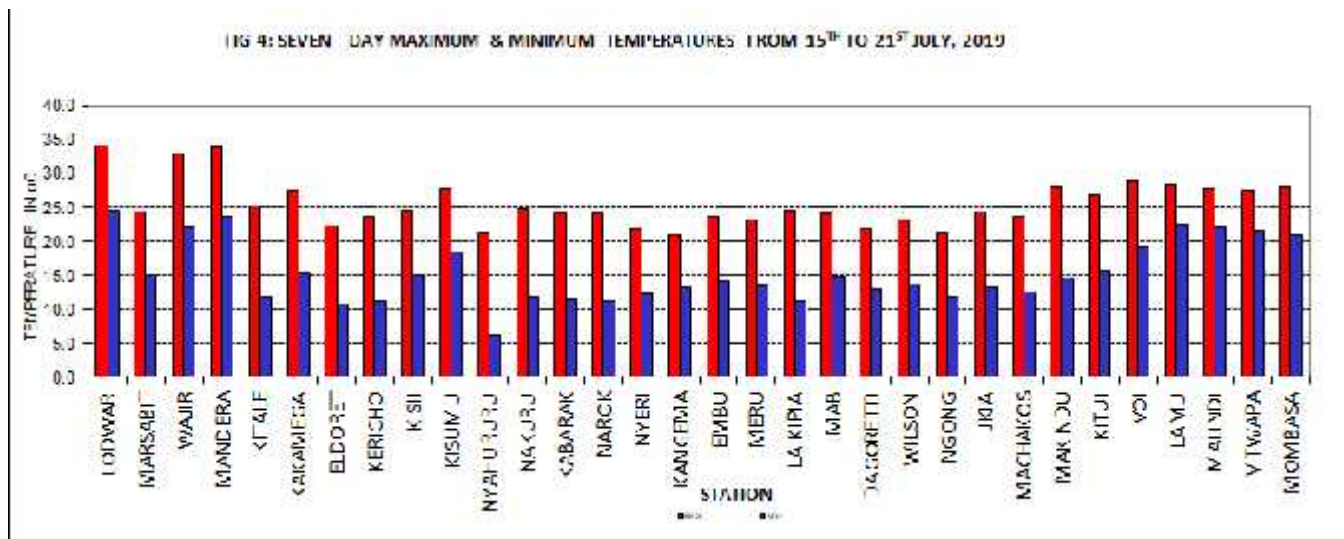


1.2 Temperature Review

Comparing the previous seven days (8th to 14th July, 2019) with the period under review (15th to 21st July, 2019) it is noted that day-time (maximum) temperatures generally decreased over most parts of the country with the exception of a few areas including Kakamega, Nakuru and Kericho. Night-time (minimum) temperatures increased over some stations including Kisumu, Laikipia and Jomo Kenyatta International Airport and decreased over others including Malindi, Makindu and Marsabit.

Mandera Meteorological Station recorded the highest daily maximum temperature of 35.6°C on 21st July, 2019 while Nyahururu Meteorological Station recorded the lowest daily minimum

temperature of 4.8°C on 15th July, 2019. Lodwar Meteorological Station recorded the highest seven-day average maximum temperature of 34.2°C while Nyahururu Meteorological Station recorded the lowest seven-day average minimum temperatures of 6.3°C (see Figure 4 below).



2. FORECAST FOR THE NEXT SEVEN DAYS FROM 23RD TO 29TH JULY, 2019.

The forecast for the next seven-day period indicates that:

- Cool cloudy conditions are expected over the Highlands East of the Rift Valley (including Nairobi area). See Figures 5 & 6 below.
- Rainfall is expected to continue over the Lake Victoria Basin, the Highlands West of the Rift Valley, the Central and South Rift Valley and the Northwest. See Figure 7 below
- Strong winds of greater than 25 knots expected over the Eastern half of the country with large waves over the ocean.

DETAILED REGIONAL FORECAST FOR THE NEXT SEVEN DAYS 23RD TO 29TH JULY, 2019.

The Lake Victoria Basin, the Highlands West of the Rift Valley and the Central and South Rift Valley (Counties of Siaya, Kisumu, Homabay, Migori, Kisii, Nyamira, Trans Nzoia, Baringo, Uasin Gishu, Elgeyo-Marakwet, Nandi, Laikipia, Nakuru, Narok, Kericho, Bomet, Kakamega, Vihiga, Bungoma and Busia) are likely to experience mainly sunny intervals in the morning throughout the forecast period (with occasional rains over few places). Afternoon/evening showers and thunderstorms are expected over few places throughout the forecast period.

Northwestern (Counties of Turkana, West Pokot and Samburu) is likely to experience morning rains and afternoon/evening showers and thunderstorms over few places for much of the forecast period.

Highlands East of the Rift Valley (including Nairobi area) (Counties of Nairobi, Nyandarua, Nyeri, Kirinyaga, Murang'a, Kiambu, Meru, Embu, and Tharaka) are likely to experience cool cloudy mornings (with occasional light rains over few places) breaking into sunny intervals throughout the forecast period. There is a chance of afternoon/evening showers occurring over few high ground areas throughout the forecast period.

Northeastern (Counties of Marsabit, Mandera, Wajir, Garissa and Isiolo) is likely to experience sunny intervals during the day and partly cloudy conditions at night much of the forecast period. However afternoon/evening showers may occur over few places on Friday.

Southeastern Lowlands (Counties of Kajiado, Kitui, Makueni, Machakos and Taita Taveta) are likely to experience morning cloudiness giving way to sunny intervals for the rest of the day throughout the forecast period. Nights are expected to be partly cloudy.

The Coastal Strip (counties of Mombasa, Tana River, Kilifi, Lamu and Kwale): is likely to experience sunny intervals during the day and partly cloudy conditions at night much of the forecast period. However light morning showers may occur over few places on Tuesday and Thursday.

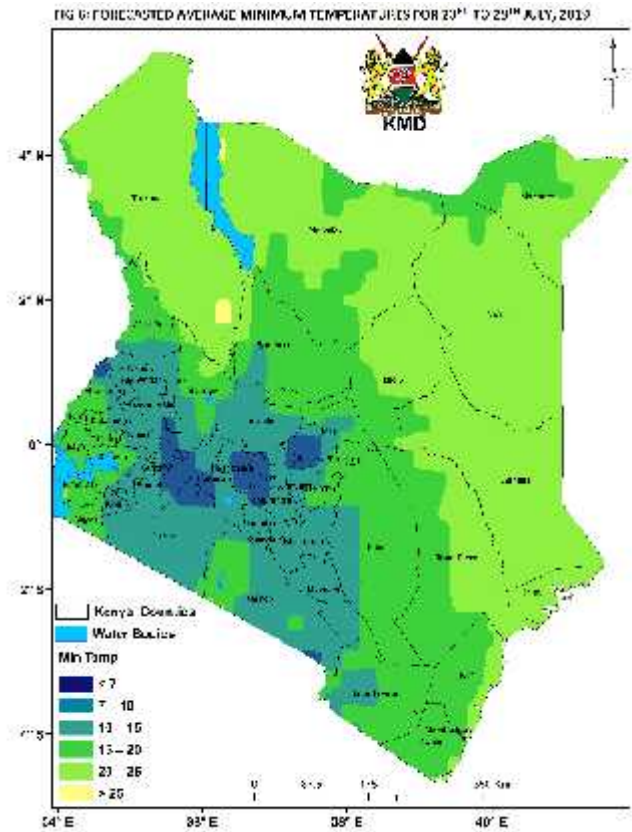
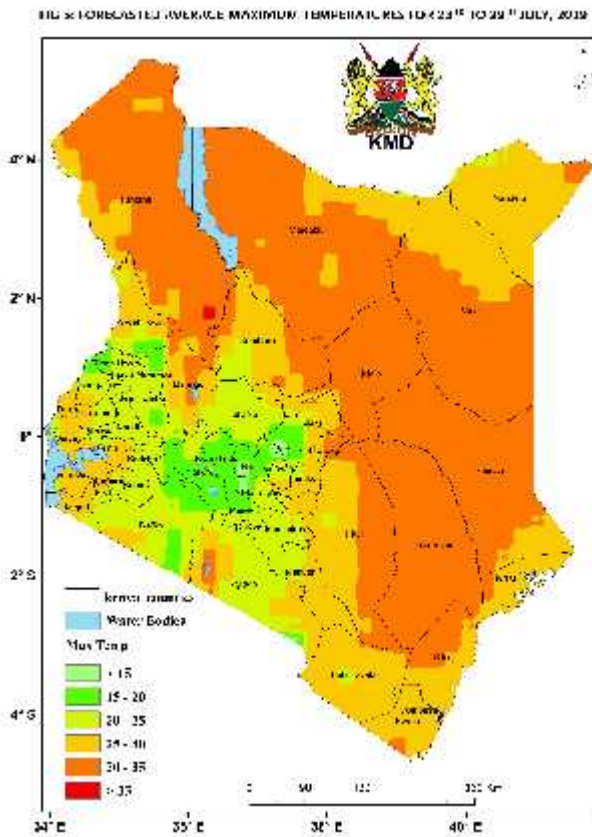
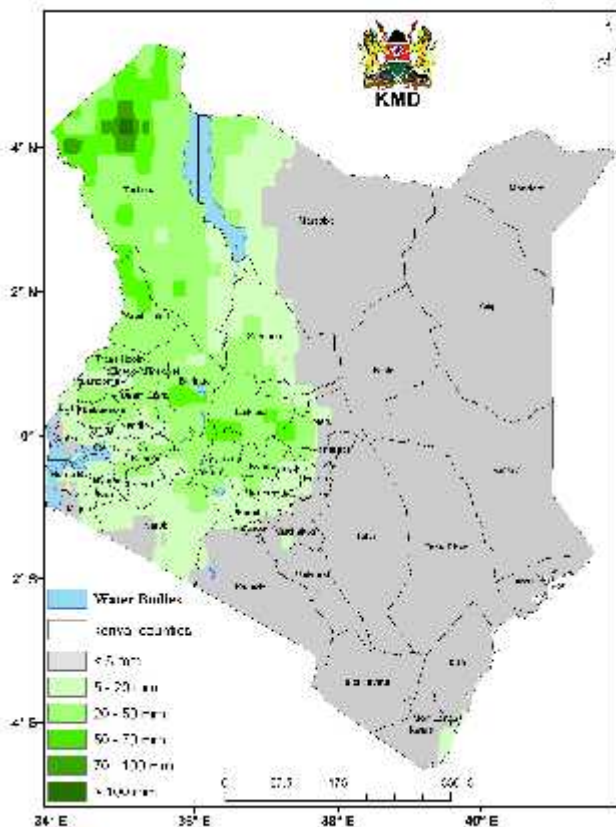


FIG 7. FORECASTED CUMULATED RAINFALL AMOUNTS FOR 23RD TO 29TH JULY, 2019



N.B: This forecast should be used in conjunction with the daily (24-hour) forecast issued by this Department.

KEY OF SCIENTIFIC WORDS USED

<i>Rainfall categories</i>	
<i>Range</i>	<i>Category</i>
<5 mm	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	Below 33%

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