



REPUBLIC OF KENYA

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WEATHER FORECAST FOR THE NEXT SEVEN-DAY PERIOD VALID 22ND TO 28TH MAY, 2018

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<p>Review of weather for the last seven-day period (14th to 20th May, 2018):</p> <ul style="list-style-type: none"> <i>The 2018 Long Rains Season has ceased over the Northeastern, Northwestern and Southeastern Kenya. Most of these regions remained generally dry during the review period;</i> <i>Elsewhere, the Lake Victoria Basin, the Highlands West of the Rift Valley, the Central and South Rift Valley and the Central Highlands continued to record significant amounts of rainfall amounts;</i> <i>Both daytime (maximum) and nighttime (minimum) temperatures increased over some areas and reduced over others.</i> 	<p>Forecast for the next seven days (22nd to 28th May, 2018):</p> <p><i>The forecast indicates that:</i></p> <ul style="list-style-type: none"> <i>Several areas within the Lake Victoria Basin, the Highlands West of the Rift Valley, the Central and South Rift Valley, the Central Highlands (including Nairobi area), the Northwest and the Coast are expected to continue receiving rainfall especially during the first half of the forecast period. Rainfall amounts are likely to reduce during the second half of the forecast period;</i> <i>Heavy rainfall is expected over parts of Western, Central and North Rift Valley, Northern and Central regions at the beginning of the forecast period.</i> <i>The Northeastern and Southeastern Lowlands are likely to remain mostly dry.</i>
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1. WEATHER REVIEW FOR THE LAST SEVEN DAYS (14TH TO 20TH MAY, 2018)

1.1 Rainfall Review

Most parts of Northeastern, Northwestern and Southeastern Kenya have experienced the cessation of the March-April-May (MAM) 2018 “Long Rains” season. Consequently, most of these regions experienced generally sunny and dry weather during the review period as seen in **Figures 1** and **2**. However, the seasonal rainfall continued in the Lake Victoria Basin, the Highlands West of the Rift Valley, the Central and South Rift Valley and the Central Highlands. These areas recorded a significant increase in rainfall amounts during this review period (14th to 20th May) as compared to the previous review period (7th to 13th May). This resulted into isolated cases landslides in places like Murang’a County where the soils are already saturated with rainwater.

Muriranja rainfall station in Murang’a County recorded the highest seven-day rainfall total of 181.0mm. Other stations that recorded seven-day rainfall totals of more than 100mm include Bungoma Water Supply Offices

(179.3mm), Kangema (166.3mm), Moi Girls Kamusinga (154.4mm), Kanduyi Agricultural Station-Bungoma (153.9mm), Kericho (135.7mm), Malindi (133.5mm), Simba Hill Farm-Uasin Gishu (132.8mm), Ngong (132.3mm), Kakamega Hill School (128.0mm), Tuthu-Murang'a (119.7mm), Nabkoi Forest Station-Uasin Gishu (117.0mm), Butere (116.9mm), Kakamega (116.8mm), Turbo Forest Station-Uasin Gishu (108.9mm), University of Eldoret (108.8mm), Embu (103.0mm), Sabor Forest Station-Elgeyo-Marakwet (102.5mm), Kaptagat Forest Station-Elgeyo-Marakwet(102.3mm), Kaimosi Tea Factory-Vihiga (101.8mm) and Thika (101.4mm).

The highest daily rainfall amount of 130.0mm was recorded at Muriranja station in Murang'a County on 14th May. Very heavy rainfall (>50mm within 24 hours)was also recorded at Malindi (128.1mm), Kangema (87.2mm), Narok (67.5mm), Tuthu-Murang'a (66.2mm), Msabaha (65.5 mm), Suba (58.0mm), Kisumu (57.4mm), Moi Girls Kamusinga-Bungoma (56.0mm), Embu (55.3mm), Kaimosi Tea Factory (52.5mm), Kabete (51.2mm) and Kisii (50.7mm). Several other stations recorded daily rainfall amounts of 20-50mm as depicted in **Figure 3**.

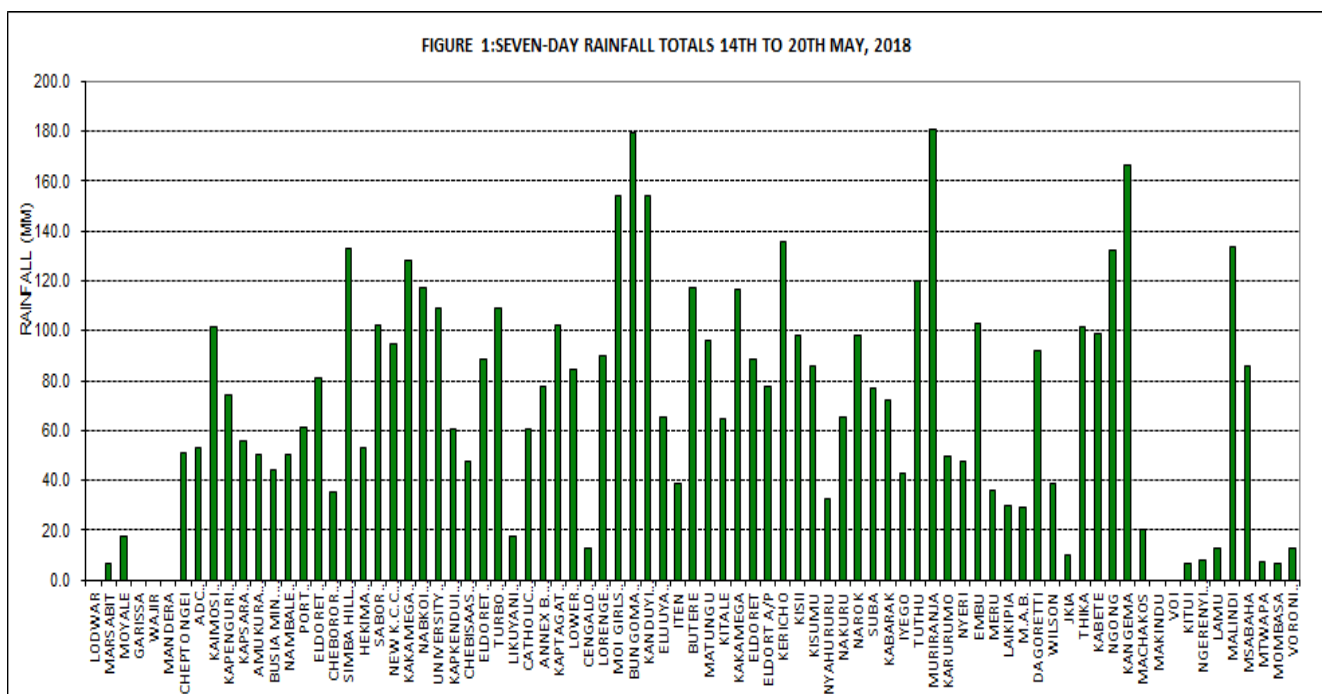


FIG 2: RAINFALL TOTALS FOR 14TH TO 20TH MAY, 2018

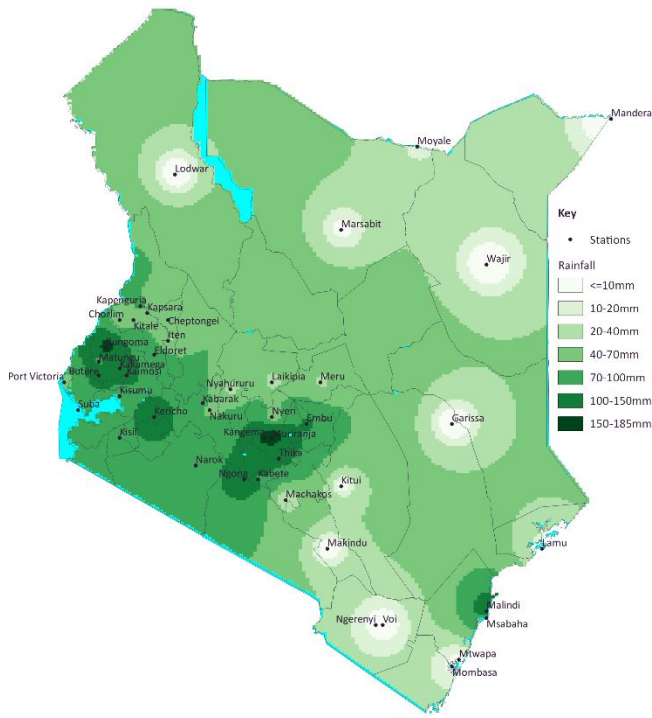
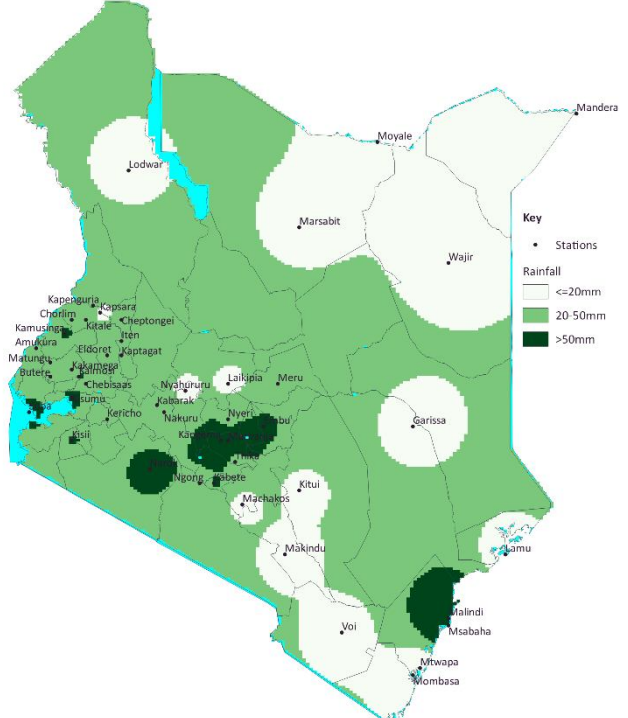


FIG 3: AREAS THAT RECORDED HEAVY TO VERY HEAVY RAINFALL

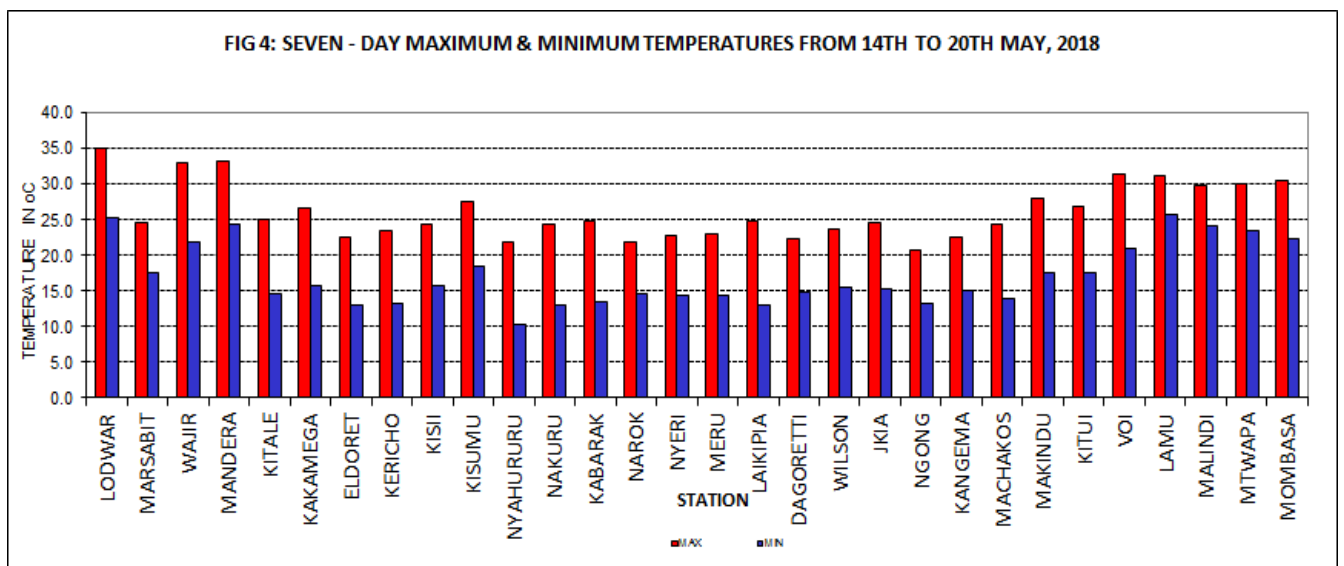


1.2 Temperature

During the review period, day-time (maximum) temperatures increased over some stations like Voi, Lamu and Makindu and decreased over others like Kisumu, Kitale and Mander. Night-time (minimum) temperatures also increased over some areas like Kericho, Lamu and Kitale and decreased over others like Wajir, Nyeri and Machakos.

Lodwar Meteorological Station recorded the highest daily maximum temperature of 36.0°C on 14th and 15th May while Nyahururu Meteorological Station recorded the lowest daily minimum temperature of 7.9°C on 18th May. The same stations recorded the highest seven-day average maximum temperature of 35.1°C and the lowest seven-day average minimum temperature of 10.4°C respectively. (See Figure 4 below)

FIG 4: SEVEN - DAY MAXIMUM & MINIMUM TEMPERATURES FROM 14TH TO 20TH MAY, 2018



2. FORECAST FOR THE NEXT SEVEN DAYS FROM 22ND TO 28TH MAY, 2018

The forecast for the next seven day period (22nd to 28th May 2018) indicates that:

- Several areas within the Lake Victoria Basin, the Highlands West of the Rift Valley, the Central and South Rift Valley, the Central Highlands (including Nairobi area), the Northwest and the Coastal strip are expected to continue receiving rainfall especially during the first half of the forecast period. Rainfall amounts are likely to reduce during the second half of the forecast period;
- Heavy rainfall is expected over parts of Western, Central and North Rift Valley, Northern and Central regions at the beginning of the forecast period.
- The Northeast and Southeast Lowlands are likely to remain generally sunny and dry throughout the forecast period.

Possible Impacts:

- Flooding is likely to continue over low-lying and poorly drained areas that have already been receiving heavy rainfall;
- There is also a possibility of land-slides occurring in areas where the soils have become saturated with rain and flood waters;
- Traffic disruptions are likely to occur in urban areas during heavy downpours.

DETAILED REGIONAL FORECAST FOR THE NEXT SEVEN DAYS 22ND TO 28TH MAY, 2018

The Lake Victoria Basin, Highlands West of the Rift Valley, Central and South Rift Valley (counties of Siaya, Kisumu, Homabay, Migori, Kisii, Nyamira, TransNzoia, Baringo, UasinGishu, Elgeyo-Marakwet, Nandi, Laikipia, Nakuru, Narok, Kajiado, Kericho, Bomet, Kakamega, Vihiga, Bungoma and Busia) are expected to experience morning rains over few places between Tuesday and Friday and sunny intervals on the remaining days. Afternoon/ evening showers and thunderstorms are expected over several places throughout the forecast period;

Northwestern (counties of Turkana, West Pokot and Samburu) are expected to experience morning rains over several places on Tuesday and over few places on Wednesday. Afternoon/ evening showers and thunderstorms are expected over several places on Tuesday and over few places on Wednesday. The remaining days are likely to experience mainly sunny intervals during the day and partly cloudy skies during the night;

Central Highlands including, Nairobi area (counties of Nairobi, Nyandarua, Nyeri, Kirinyaga, Murang'a, Kiambu, Meru, Embu, and Tharaka) are expected to experience cloudy mornings with a possibility of rains over few places for much of the forecast period. Afternoon/evening showers are expected over several places on Tuesday and Thursday. The afternoon/evening showers are expected over few places on the remaining days;

Northeastern (counties of Marsabit, Mandera, Wajir, Garissa and Isiolo) are expected to experience mainly sunny intervals during the day and partly cloudy skies during the night. However, there is a possibility of afternoon/evening showers occurring over few places on Tuesday and Wednesday;

Southeastern Lowlands(counties of Kitui, Makueni, Machakos and Taita Taveta): are expected to experience mainly sunny intervals during the day and partly cloudy skies during the night;

The Coastal Strip (counties of Mombasa, Tana River, Kilifi, Lamu and Kwale): are expected to experience morning showers over several places on Tuesday and over few places on Wednesday, Friday and Saturday. Early afternoon showers are also expected over several places on Tuesday and over few places on Wednesday and Friday.

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

KEY OF SCIENTIFIC WORDS USED

Rainfall categories	
Range	Category
<5 mm	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	Between 0 and 33%

J. Gacheru-Ongoma

FOR THE DIRECTOR OF KENYA METEOROLOGICAL DEPARTMENT