## Rainfall Forecasts Vs Observations during the 2024 MAM season and Outlook up to August

Mary Kilavi

KMD

#### MAM forecast released on 29<sup>th</sup> Feb 2024

Above-average rainfall is expected over the Lake Victoria Basin, Highlands West of the Rift Valley, Central, Northern and Southern Rift Valley, Highlands East of the Rift Valley (including Nairobi County), Northeastern, Southeastern Lowlands, and Northwestern regions. Generally, near-average rainfall with a tendency to above average rainfall is expected over the Coastal region and parts of the Southeastern lowlands. Occasional storms are also likely to be experienced in some parts of the country. The temperature forecast suggests that for the larger part of the country, the season is likely to be warmer than average.

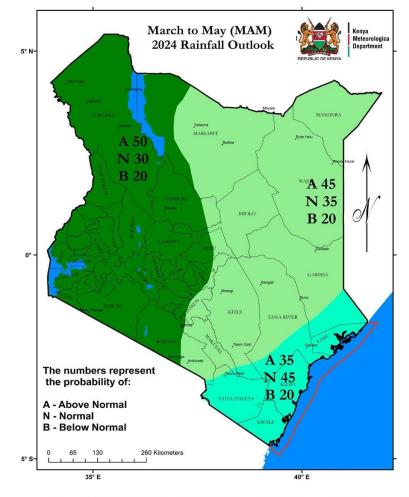
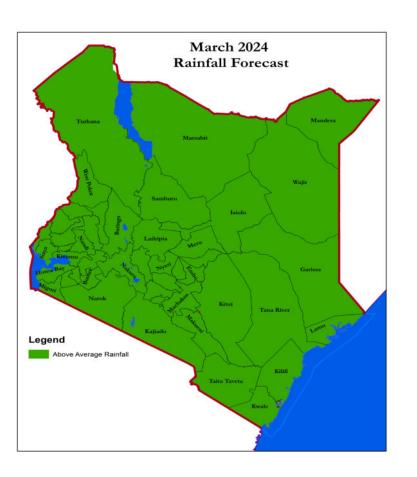


Figure 1b: March-April-May (MAM) 2024 "Long-Rains" Season Outlook

#### March Forecast Vs performance

March Forecast issued on 29<sup>th</sup> February

Above-average rainfall was forecast over most parts of the country



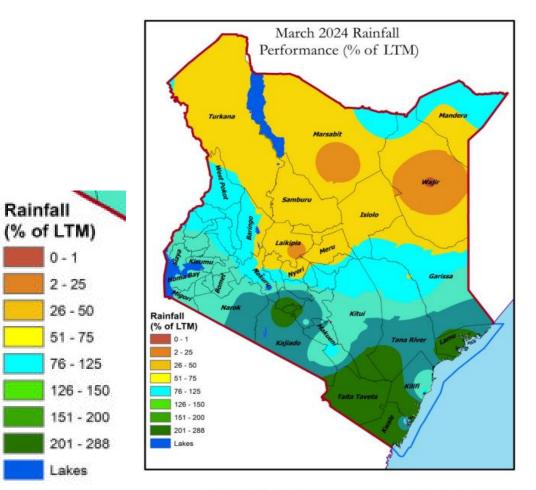


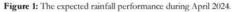
Figure 2c: March 2024 Rainfall Performance as a percentage of LTM

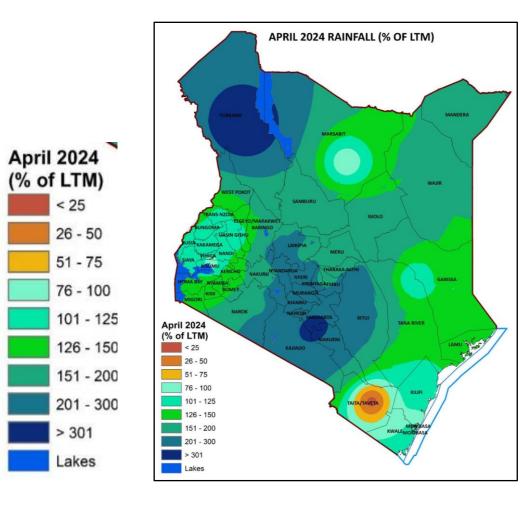
### April forecast Vs performance

April Forecast issued on 29th February

The outlook indicated near to above average across most arts of the country and highlighted the likelihood of occurrence of episodes of heavy rainfall







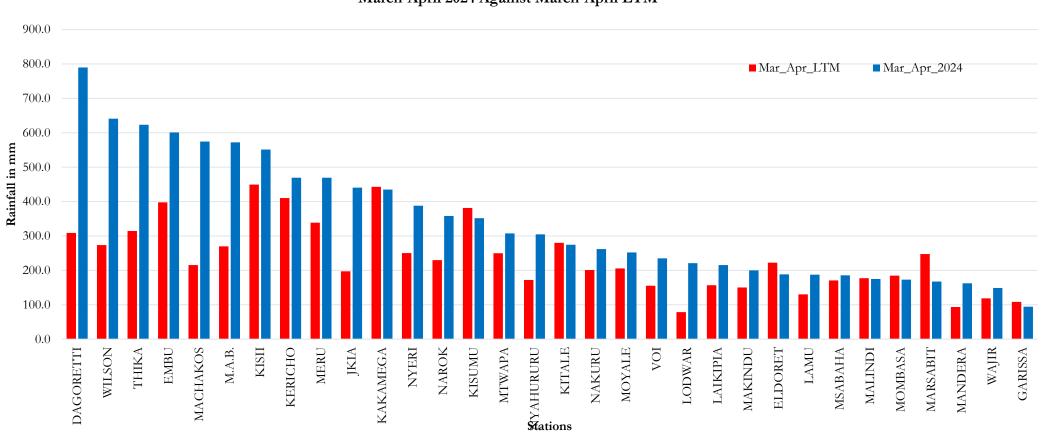
#### April 2024

700.0 Apr\_LTM Apr\_2024 600.0 500.0 Rainfall in mm 400.0 300.0 200.0 100.0 KISUMU ARA ABIT MARTINDU WERL MACHAROS OPENII 0.0 HAA MAB. ANAHURURU RU WILSON THEA LODWAR FRA LIPIA ROL INBUNERU RUNNE USI HAND VALE THO BATH CHARSON AND THE AND THE ADDRESS AND AND THE ADDRESS AND AND THE ADDRESS AND ADDRESS 201

April 2024 Rainfall Totals against April LTM

Stations

#### March-April 2024 Against March-April LTM



March-April 2024 Against March-April LTM

# Dates on which heavy rainfall advisories were issued

2024-05-02-18-31-53.xml Heavy rainfall over several parts of the Country

2024-04-25-16-39-14.xml Heavy rainfall over several parts of the Country

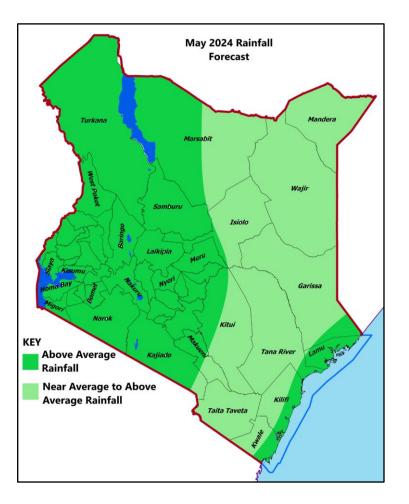
2024-04-20-18-55-22.xml Heavy rainfall over several parts of the Country

2024-04-13-12-29-20.xml Heavy rainfall over several parts of the Country

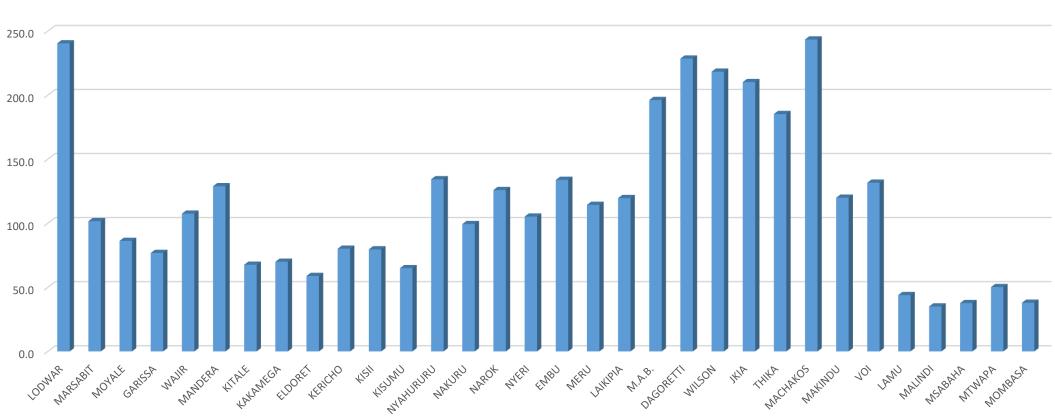
2024-04-01-17-02-59.xml Heavy rainfall over most parts of the Country

### Rainfall Forecast for May 2024

The outlook for May 2024 indicates that several parts of the country are likely to experience nearaverage to above-average rainfall. Occasional storms are also likely to be experienced.



#### Performance of the season up to 5<sup>th</sup> May

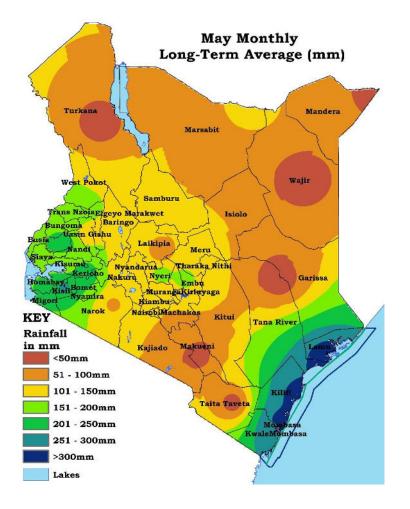


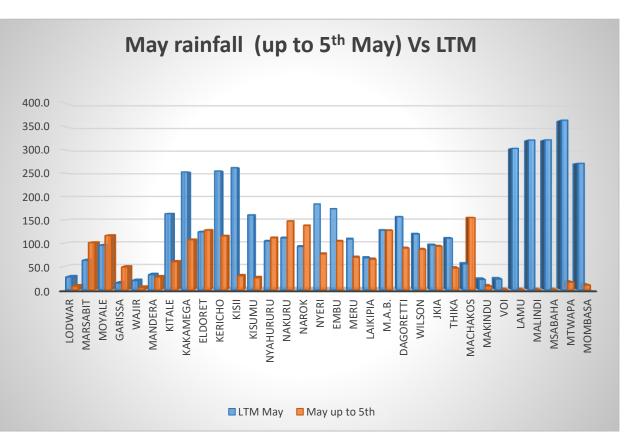
MAM % of LTM

#### Ranking of MAM 2024

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Rank	MAB		Dagoreti		Wilson		Kabete	
1	2024	779.4	2024	973.6	2024	858.3	2024	978.3
2	1968	558.3	1981	707.3	2018	598	2018	734
3	1988	558	1978	556.6	1988	503.9	2013	684
4	2018	517.1	1988	552.3	1977	488.9	1988	638.6
5	2010	487.3	2018	545.1	1968	477.7	1981	629.8
6	2013	484.8	1977	536	2012	446.4	1978	612.8
7	2016	433.3	1964	532	1990	442.9	2004	504.6
8	1974	425.9	2013	510.2	1992	442	2010	502.8
9	1986	418.1	2020	510	1978	440	1977	496.8
10	1990	416.7	1970	496.2	2020	433.4	1990	494.9
11	. 2006	407.7	1963	491.7	1963	430.4	2023	490.3
12	2023	402.2	1968	486.1	1981	429.7	2020	486
13	2004	401.6	2012	474.6	1970	409.7	2006	480.8
14	1978	395.6	2006	464.1	1964	409	2016	479.2
15	1981	393	1990	463.1	2013	408.3	1997	469.5

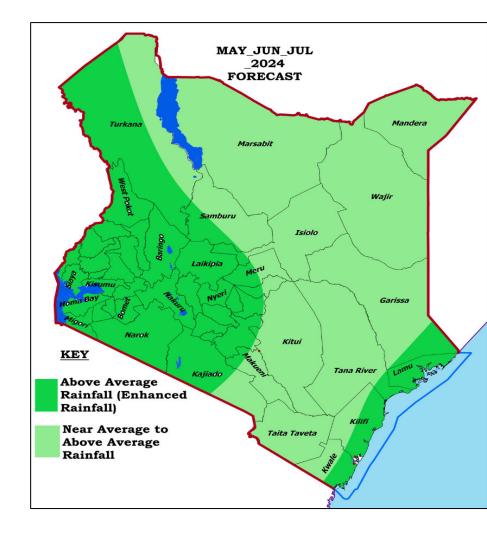
#### Long term mean for May



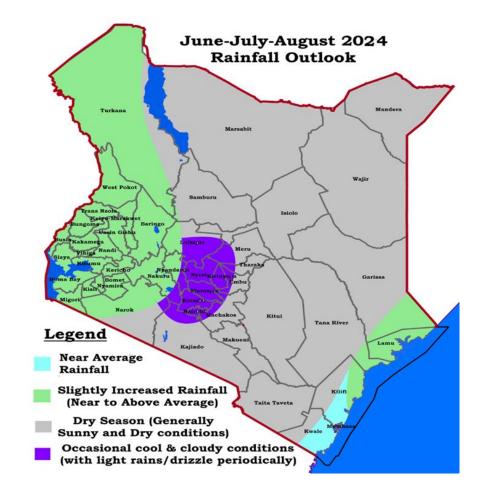


### May to July forecast

The forecast for the next three months indicates that rainfall is expected over the Highlands West of the Rift Valley, the Lake Victoria Basin, Central and South Rift Valley, as well as the Coastal region. The Highlands East of the Rift Valley, including Nairobi County and parts of the Southeastern lowlands, are likely to experience rainfall in May and remain generally cool and cloudy with occasional light rains in June and July. The rest of the country is expected to receive occasional rainfall in May and remain generally dry in June and July. Temperature is expected to be warmer than normal across the entire country during the forecast period, with higher probabilities for warmer than average temperatures expected over the eastern half of the country.

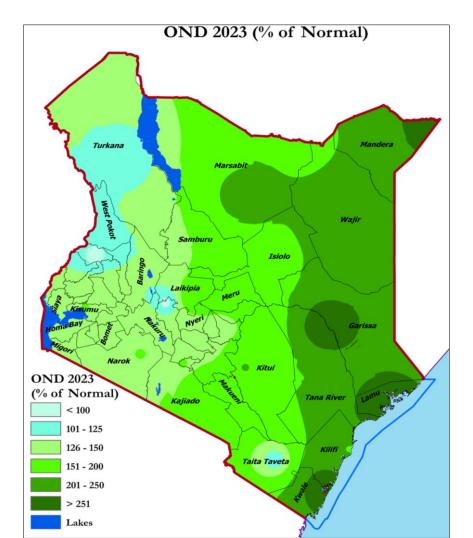


#### June to August Outlook



#### October-December 2023 Seasonal Rainfall Performance (%) against OND LTM

Above average rainfall was observed over the whole country.



2023 OND Forecast

