



REPUBLIC OF KENYA
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MARCH-APRIL-MAY (MAM-2025) SEASONAL FORECAST FOR MOMBASA COUNTY

1. HIGHLIGHTS

- ✚ The MAM-2025 rainy season is expected to be Near to below average of the long term mean, in the County of Mombasa and its neighborhoods.
- ✚ The season will be characterized by normal to late onset dates between the 4th week of March 2025 and 1st week of April 2025.
- ✚ Rains are likely to continue in to the month of June (wet spell period of between 6 - 8 weeks)
- ✚ The rainfall distribution over Mombasa County will be marked by prolonged dry spells and occasional isolated storms (poor to fair distribution).
- ✚ Temperatures are expected to be warmer than average across the county and the coastal waters.

SPATIAL MAP OF PROBABLE TOTAL MAM 2025 SEASONAL RAINFALL COMPARED WITH LONG TERM MAM MEAN

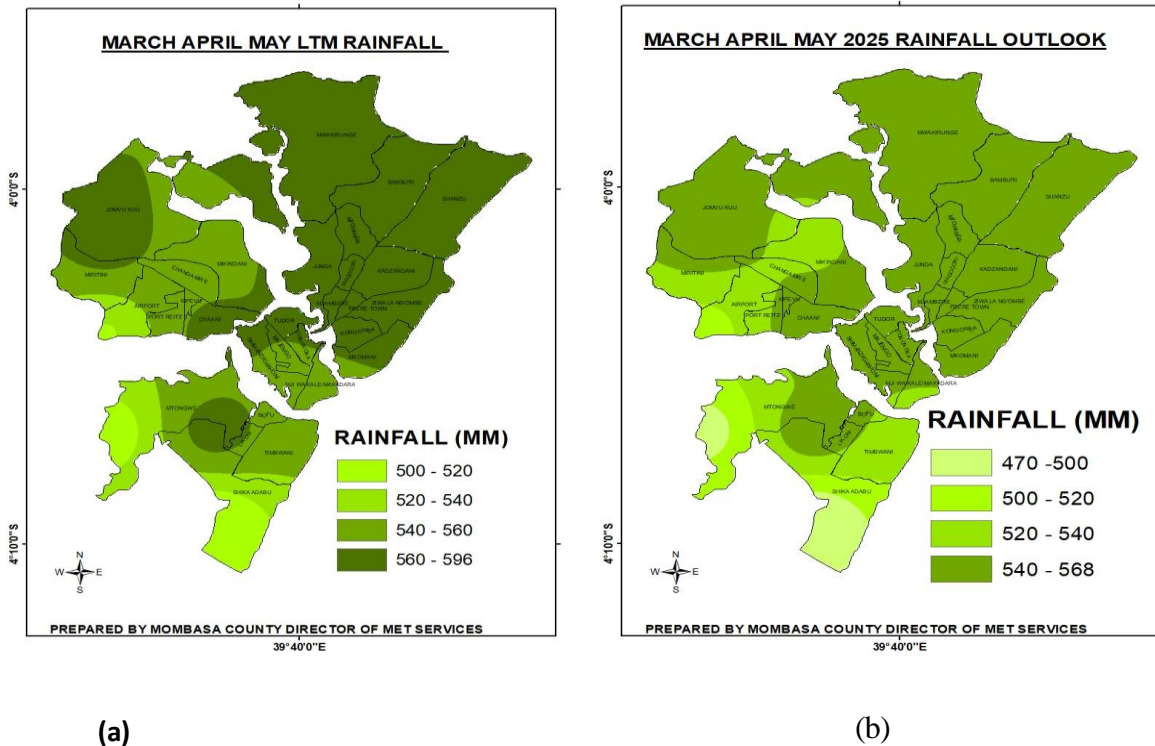


Figure 1. (a) MAM Long Term Mean (LTM) rainfall and (b) MAM-2025 rainfall outlook for Mombasa County

MAM SEASON FORECAST BY SUB-COUNTY

Sub-County	MAM Long-Term Average Rainfall	MAM-2025 Forecast Total Rainfall
Nyali	560 - 596 mm	540 - 568 mm
Mvita	540 - 596 mm	500 - 568 mm
Likoni	500 - 560 mm	470 - 520 mm
Kisauni	540 - 596 mm	540 - 568 mm
Jomvu	520 - 560 mm	520 - 540 mm
Changamwe	500 - 560 mm	500 - 520 mm

ON SET, CESSATIONS AND DISTRIBUTION OF THE 2025 MAM SEASON

ON SET DATES	CESSATION DATES	DISTRIBUTION
Last week of March to second week of April (29 th March – 11 th April 2025) Normal to delayed on set expected	Between the first to the second week of June 2025	The rainfall will be poorly to fairly distributed throughout the MAM rainfall season.

SUMMARY FOR DECISION MAKERS IN VARIOUS SECTORS IN MOMBASA COUNTY

Below-average rainfall is forecasted across much of the Mombasa County and its environment during the MAM 2025 season. The reduced rainfall is likely to have significant implications/impacts on various sectors like agriculture, water availability, and overall food security in these regions, transport and health sectors. This is likely to further exacerbate vulnerabilities in communities that are already facing climate-related challenges.

1. DISASTER RISK MANAGEMENT

The forecasted reduced rainfall that is likely to lead to drying up of water sources could expose communities to safety risks. This situation may also lead to livestock disease outbreaks and loss, human disease outbreaks (waterborne and vector-borne), increased resource-based conflicts and cross-border movements, and infrastructure damage, including drainage clogging, roads, and bridges.

2. AGRICULTURE AND FOOD SECURITY

There is a likelihood of inadequate soil moisture to support crop growth and development due to low rainfall and poor distributions. Also, the prevalence of pests and disease outbreaks is likely. This situation may lead to an increase in the number of food-insecure households and populations across the county. Additionally, there is a likelihood of increased conflict, involving human wildlife interactions and community disputes.

3. WATER AND ENERGY

There is a potential reduction in water supply for human consumption, livestock, irrigation, and hydropower production, coupled with the risk of water contamination and conflicts over water use and access. Additionally, there is a risk of flooding due to occasional storms expected during the MAM 2025 season in the county.

4. HEALTH

Chances of increased incidence of vector-borne diseases such as dysenteries and watery diarrhea due to scarcity of clean water. Malnutrition as a result of the expected inadequate food supply and high food prices to feed the community.

5. FISHERIES

The anticipated warmer temperatures (sea surface temperatures) are likely to impact on fishing activities within the western Indian Ocean that border the County coastal waters. This can cause fish migrations to cooler deep waters, can also affect spawning and health of fish, affect the coral reefs and coastal habitat eventually impacting on the economic activity. Sustainable fishing practices and measures need to be employed during the season.

NB: The relevant sectors are advised to develop appropriate advisories to enable the community cope/adapt and where possible mitigation measures should be applied to the anticipated impacts of the expected below to near average rainfall during the 2025 MAM season.

2. RECOMMENDATIONS

1. The seasonal forecast should be considered together with the various time scale forecasts (24-hour, Monthly, Weekly forecasts, special forecasts) and regular advisories/updates issued by the Kenya Meteorological department and Mombasa County Meteorological Office
2. The various sectors and agencies are advised to develop appropriate advisories and also put in place measures that would assist in adaptation and mitigation during the season.

A handwritten signature in blue ink, appearing to read 'Joseph Amollo', is written over a light-colored rectangular background.

Joseph Amollo
County Director of Meteorological Services, Mombasa County