MARCH TO MAY 2025 SEASONAL FORECAST

JOHN NGUYO
COUNTY DIRECTOR OF METEOROLOGICAL SERVICES (ISIOLO COUNTY)
CELL PHONE: +254712375127
: +254782375127

E-mail : cdmisiolo@meteo.go.ke
Website: http://www.meteo.go.ke

Weather Forecasting Terms

- **Below Normal** → **Below normal rainfall (Below 75%)**
- **Near Normal** → **Near normal rainfall (75 – 125%)**
- **Above Normal** → **Above normal rainfall (More than 125%)**
- **Onset date** → **Onset date The beginning date of seasonal rainfall**
- **Cessation date** → **Cessation date is the expected ending date of seasonal rainfall**

WEATHER REVIEW(OND) 2024 “SHORT RAINS” SEASON

- Most parts of the county experienced below normal (depressed) rainfall during the OND 2024 “Short-rains” season.
- Onset was realised in the to first week of November in few parts of the county peaking in the second week of November 2024.
- Cessation was realised in the fourth week of November 2024.
- Most parts of the county including Sericho, Chari, Cherab and Garbatulla wards received depressed rainfall, some parts in those regions did not receive any rain
- The distribution was poor both in time and space.

WEATHER REVIEW (OND) 2024 "SHORT RAINS"- RAINFALL PERFORMANCE

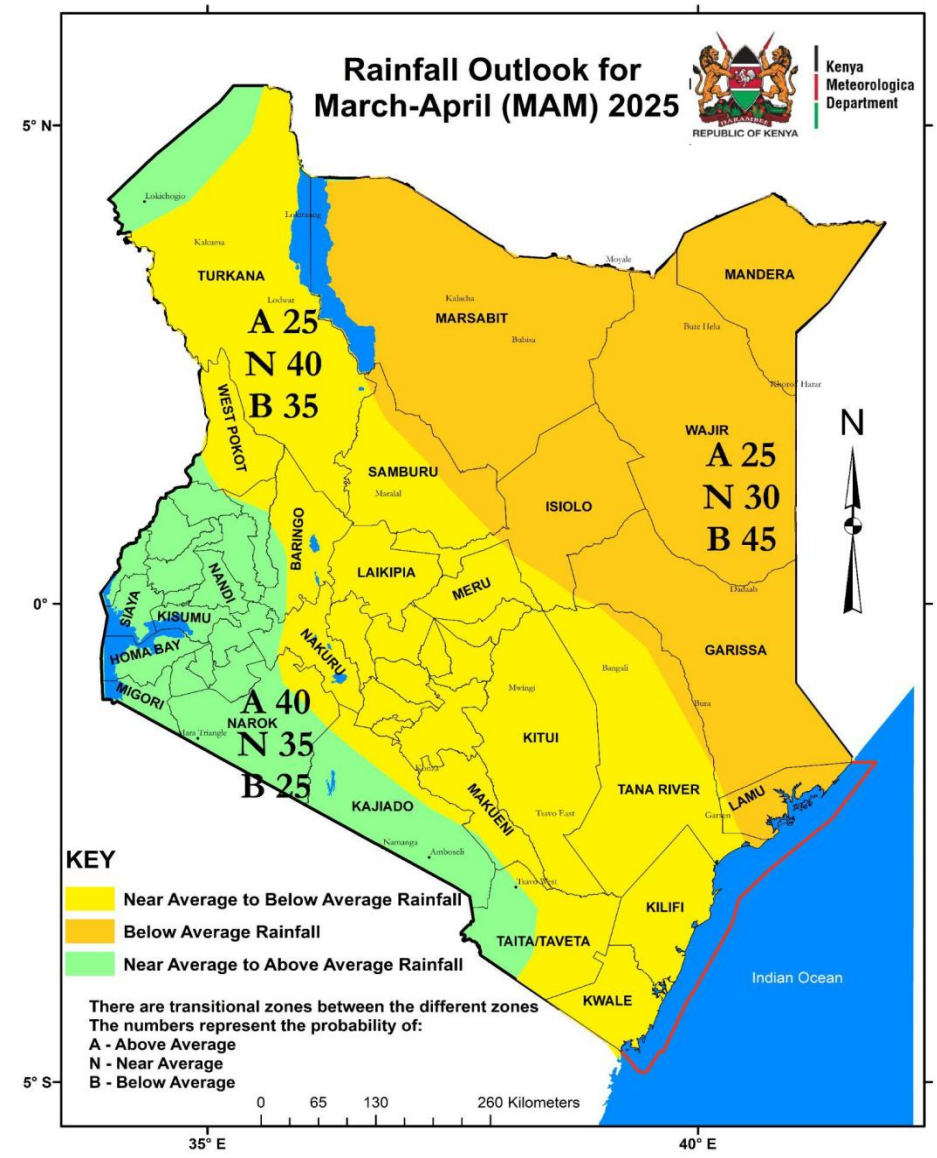
Station Name	Oct	Rain Days	Nov	Rain Days	Dec	Rain Days
Isiolo	44.2	3	172.5	18	20.1	5
Kulamawe	0	0	108.5	9	0.0	0
Kina	0	0	168.5	8	0.0	0
Olodonyiro	9.9	2	128.9	10	2.2	2
Tware	6.0	4	67.2	8	0.0	0
Kipsing	27.3	1	27.6	9	0.0	0
Garbatula	0.0	0	177.5	5	0.0	0
Sericho	0.0	0	59.8	6	0.0	0
Gafarsa	0.0	0	40.7	3	0.0	0
Malkagalla	0.0	0	5.6	2	0.0	0
Bisan Biliqo	0.0	0	0	0	0.0	0
Merti	-	-	-	-	-	-

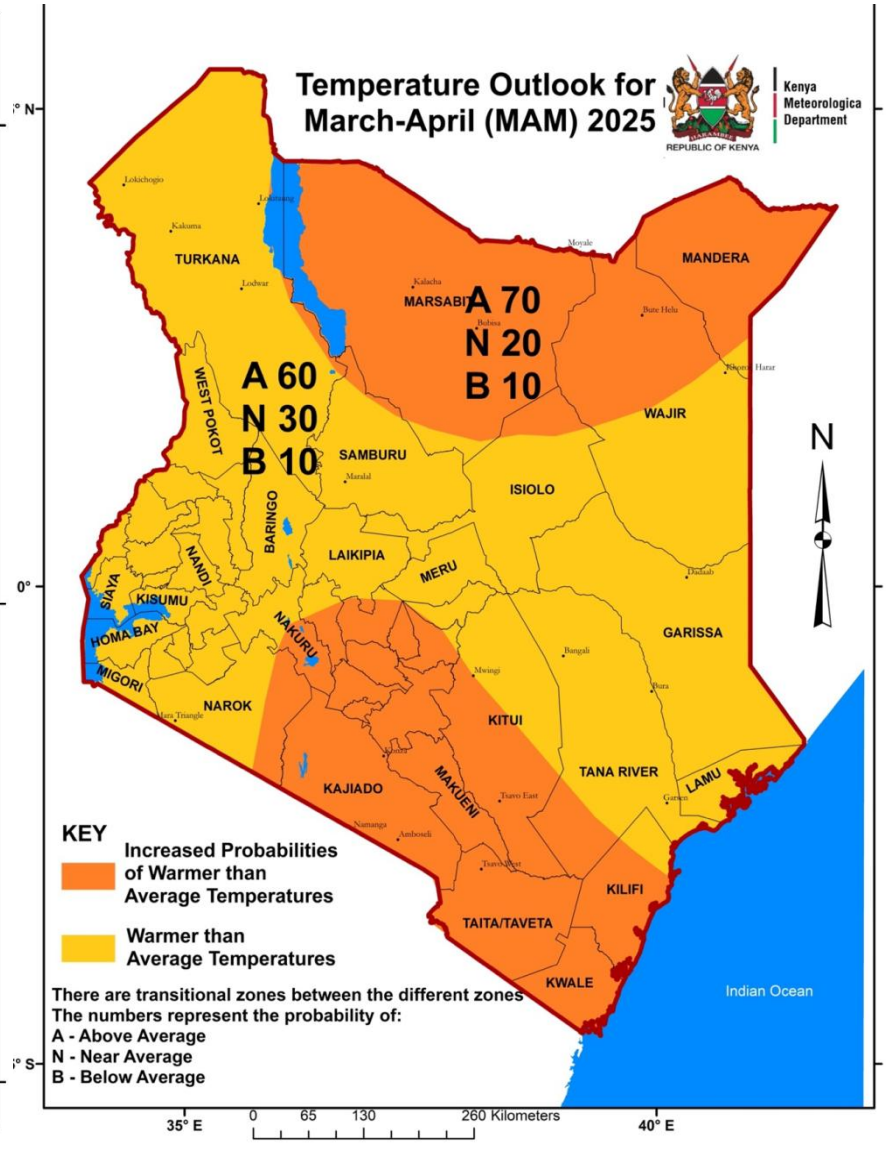
MAM 2025 Outlook

MAM 2025 was based on:

- ❖ Prevailing and the expected evolution of SST Anomalies over the Pacific, Indian and Atlantic Oceans.
- ❖ Synoptic, Mesoscale and local factors that affect the climate of this region.
- ❖ These factors were assessed using ocean-atmosphere models, statistical models, satellite derived information and expert interpretation
- ❖ The predicted onsets, cessations, and distribution of rainfall were derived from 5 Global Climate Model (GCMs) runs as well as statistical analyses of past years which showed similar characteristics to the current year.
- ❖ The analogue (similar) years chosen are 2017 and 2021.
- ❖The season is expected to have a normal to late onset over most parts of the county.

MAM RAINFALL AND TEMPERATURE OUTLOOK

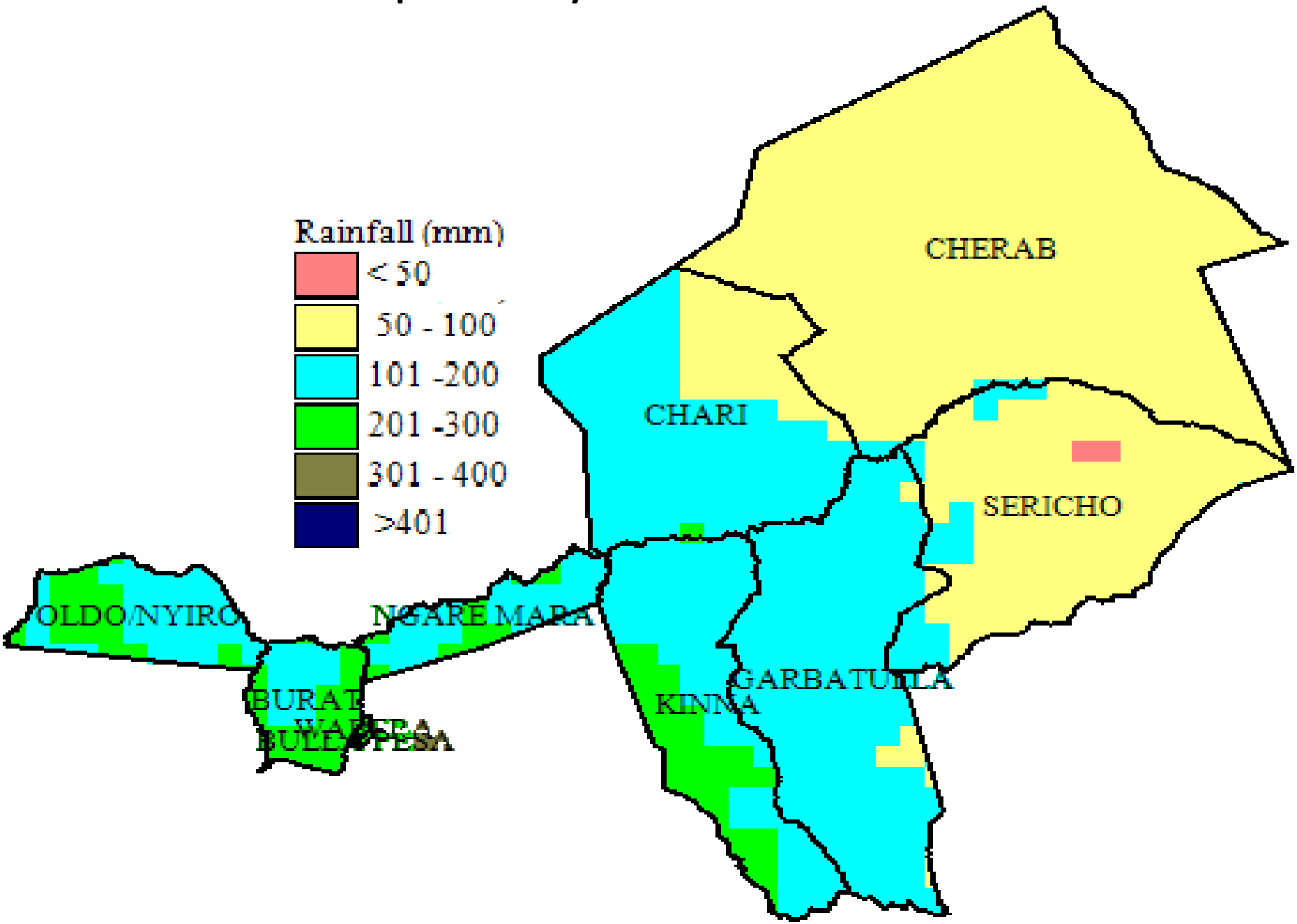




ISIOLO COUNTY LONG RAINS SEASON (MAM) 2025 FORECAST SUMMARY

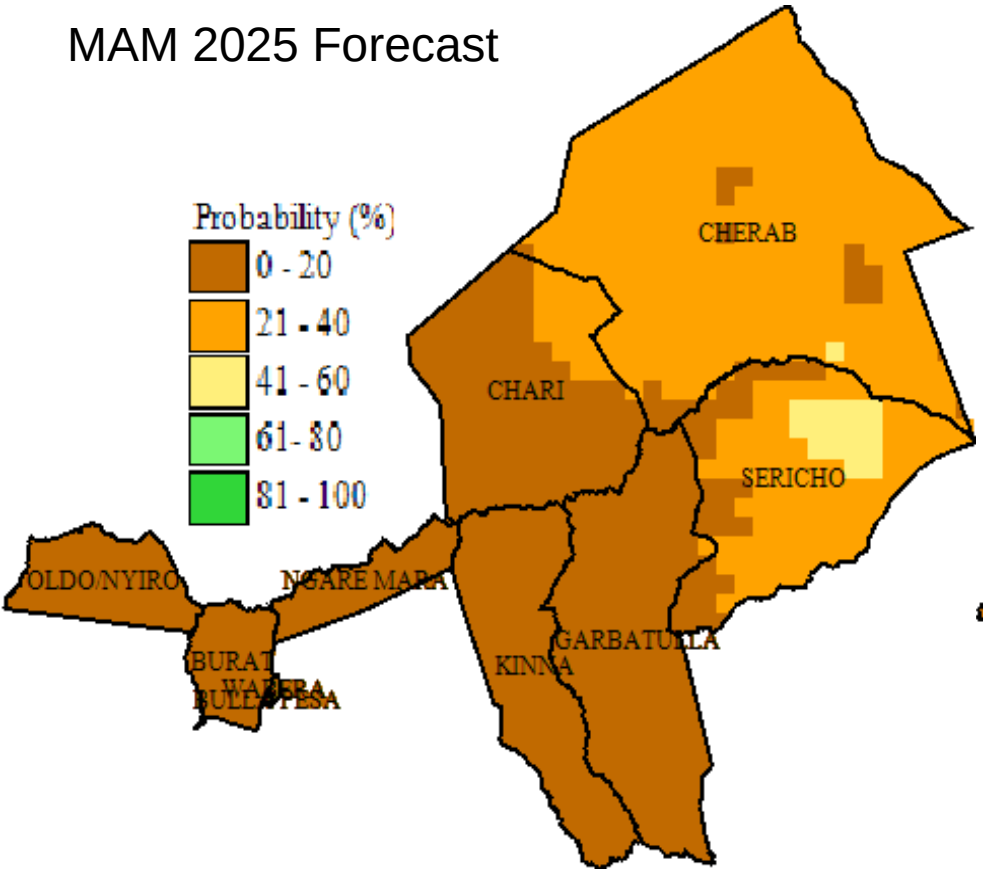
- The 2025 long rain season (March – May) is likely to be below-average (depressed) rainfall in most parts of the county with varied levels of impacts in the socio-economic sectors.
- Areas in Wabera, Bura Pesa, small portions of Burat, Ngare Mara and Kinna are expected receive near normal tending to below normal rainfall. The onset is expected to be in the fourth week of March to first week of April 2025.
- Expected cessation dates are 2nd to 3rd week of May 2025.
- Other parts in the County are expected to experience below- average (depressed) rainfall. The onset in Oldo Nyiro, Chari, Cherab, Garba Tulla, Sericho, large portions of Kinna, Burat and Ngare Mara is expected to be in the first to second week of April 2025.
- Expected cessation dates in these areas are in fourth week of April to first week of May 2025.
- It is anticipated that most areas will have a relatively poor distribution of rainfall in both time and space.

March April May 2025 Rainfall Outlook

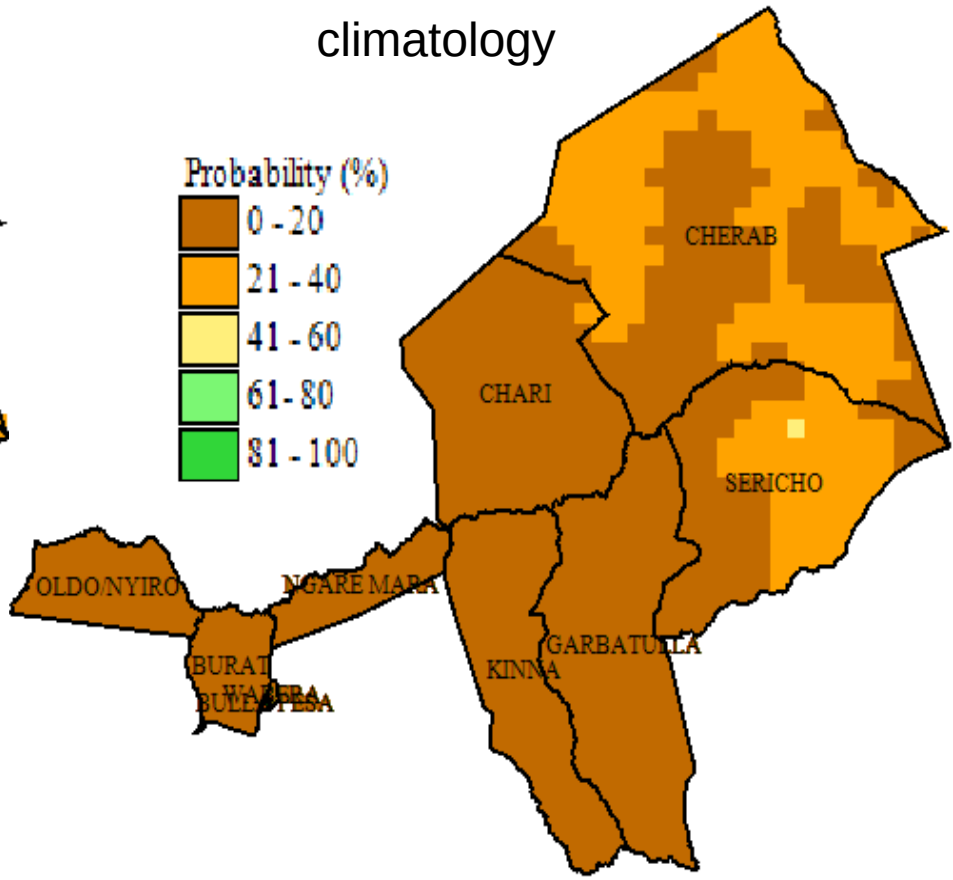


Comparison of MAM 2025 Forecast and climatology less than 50mm

MAM 2025 Forecast

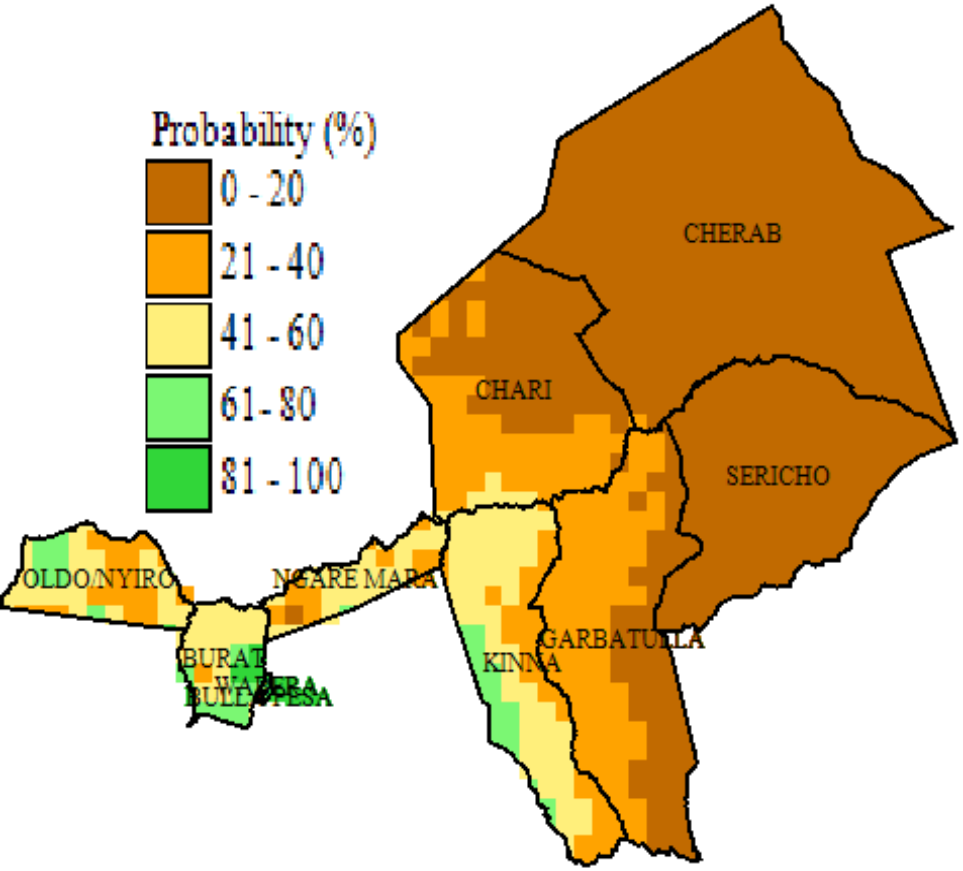


climatology

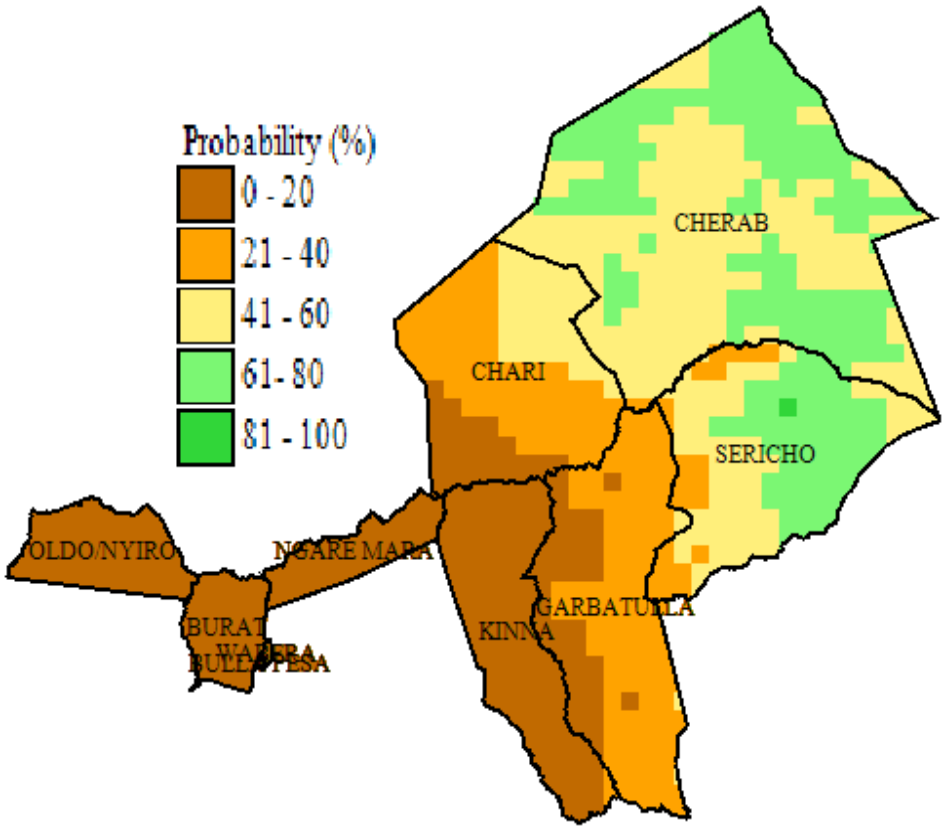


Probability of receiving more than 200mm n e thn 100mm

Probability of receiving more than 200mm



Probability of receiving less than 100mm



CONCLUSION

- The catchments rivers feeding the Ewaso Nyiro river is expected to have increased water flow due to expected near to below normal rainfall from the Ewaso Nyiro river catchment areas in the 2025 MAM rainfall season. The increased Water levels may cause occasional floods in the lower floods prone areas of the County.

✓ During MAM 2025, it is expected that several parts of Isiolo County will experience depressed (below average) rainfall. Distribution will be relatively poor both in time and space.

✓ Occasional storms are likely to occur over some parts of the county during the season which may cause flash floods.

✓ This forecast should be used in conjunction with the five-day, weekly and monthly forecasts including updates issued by Meteorological Department

✓ This forecast should be used as a guidance in planning and preparedness by decision-makers and the public and in various climate sensitive sectors.

THE END

THANK YOU ALL.