





## Kenya Meteorological Department P.O. Box 30259-00100

#### **EMBU COUNTY**

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# ADVISORIES FOR THE MARCH-APRIL-MAY (MAM) 2024 RAINY SEASON

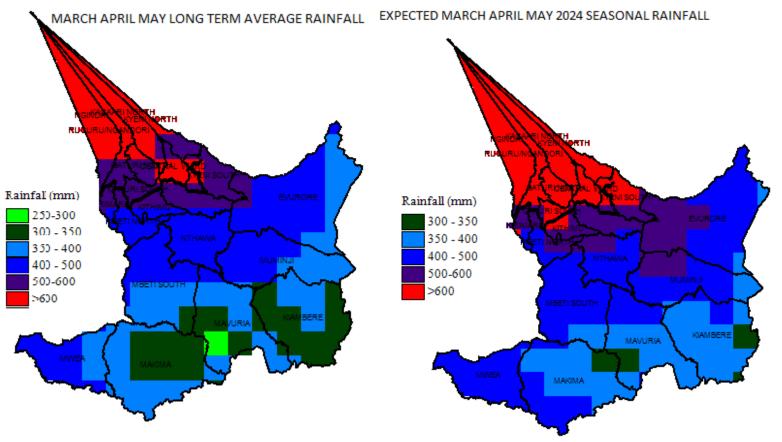
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#### 1 HIGHLIGHTS

- The March to May period is the major rainfall season over Embu County
- Normal to above-normal rainfall is expected in the upper altitude zones (on the slopes of Mt. Kenya) while Near Normal rainfall is likely over most parts of the middle and lower altitude zones of Embu County.
- The seasonal rainfall onset is expected between 15<sup>th</sup> and 28<sup>th</sup> March 2024 and Cessation between 22<sup>nd</sup> May and 7th June 2024.
- Generally, distribution of the rainfall is expected to be fair to good both in time and space in Embu County.
- The peak rainfall is expected in the Month of April 2024.
- The temperature forecast indicates that warmer than average temperatures are expected over the whole County.

# 2 SPATIAL MAP OF PROBABLE TOTAL SEASONAL RAINFALL,



# 3 MAM 2024 Seasonal Forecast Table by Wards (see exact zones in a Ward from above maps)

Subcounty	Ward/climatic	Normal	Forecast	Probable onset dates	Probable
	zone	MAM	for MAM		cessation
		(LTM)	2024		dates
		amounts			
		mm			
	Kyeni North	> 600	>600		
	Kyeni North	500 – 600	>600		
	Kagaari North	>600	>600		
	Kagaari North	500 - 600	>600		
	Gaturi North	>600	>600		
	Gaturi North	500 - 600	>600		
Runyenjes	Runyenjes Central	>600	>600		
	Runyenjes Central	500 – 600	>600		
	Kagaari South	400 - 500	400 - 500		
	Kagaari South	500 - 600	500 - 600	Between 15 <sup>th</sup> and 28 <sup>th</sup> March	Between 22 <sup>nd</sup>
	Kagaari South	>600	>600	2024.	May and 7 <sup>th</sup>
	Kyeni South	500 - 600	500 - 600		June 2024.
	Kyeni South	>600	>600		
	Muminji	350 – 400	350 - 400		
	Muminji	400 - 500	400 - 500		
	Muminji	400 - 500	500 - 600		
Mbeere	Evurore	350 - 400	350 – 400		
North	Evurore	400 - 500	400 -500		
	Evurore	400 - 500	500 - 600		
	Nthawa	400 - 500	400 - 500		
	Nthawa	400 - 500	500 - 600		
	Mwea	350 - 400	400 - 500		
	Mwea	400 - 500	400 - 500		
	Makima	250 – 300	300 - 350		
	Makima	300 – 350	350 - 400		
	Makima	350 - 400	400 - 500		
	Mbeti South	300 – 350	350 – 400	Between 15th and 28th March 2024	
Mbeere	Mbeti South	350 – 400	400 - 500	But check weather updates from	Between 22 <sup>nd</sup>
South	Mbeti South	400 – 500	400 - 500	KMD website	May and 7 <sup>th</sup>
	Mavuria	250 – 300	250 – 300	https://meteo.go.ke/node/4942	June 2024.
	Mavuria	300 – 350	300 – 350		
	Mavuria	350 – 400	400 - 500		
	Kiambere	300 – 350	300 – 350		
	Kiambere	350 – 400	350 – 400		
	Kiambere	350 - 400	400 - 500		

#### 4 Recommendations

#### a) Choosing the right crops to plant

• To minimize risks, choose the crops whose seasonal crop water requirements is within the lower limit value of the predicted range.

#### b) Onset dates

- The onset dates predicted in this seasonal forecast should be used in conjunction with weekly Weather forecasts/updates which are more accurate.
- Wet Plant when the **weekly forecast** indicates at least **3 days** with rain of a total amount **greater than 20 mm.**
- For those wishing to dry plant, it is advisable to plant in the 1<sup>st</sup> week of the predicted onset dates

## 5 Agronomic Advisories

#### **5.1** General Responsibilities

- Farmers to implement the advisories
- Agricultural Officers to advise farmers
- Input suppliers to ensure inputs are available on time
- Community Extension Volunteers to advise farmers
- Kenya Met Department to provide weather updates (weekly, other)
- Agriculture, Livestock and Fisheries development
- Insurance companies

#### **5.2** General Farm Activities

- Early land preparation: before 15 march
- Repair of soil and water conservation structures: Terraces, fanya juu, benches water pans Zai pits, etc
- Repair of water storage structures: Desilting of farm ponds, weirs, water tanks, water pans, Gutters
- Practices: Conversation Agriculture (CA): Ripping, Planting stations.
- Pre-germination (seed soaking); Seed preparation
- Scale up manure and fertilizer application (basal & top dressing)
- Timely weed control
- Timely and proper pests and disease control.
- Proper spacing of crops
- Plant ecologically suitable certified seeds as indicated above
- Pitting for fruits and forest Trees

# 5.3 Specific agronomic Advisories for the Upper zones

Crops to plant		Wards (Runyenjes Central, kagaari north, Kyeni North, Nginda, Gaturi north and Ruguru				
		Ngandori)				
1.	Maize	Hybrid – 5 series, Pannar 15, Pioneer 30G19,513,614,deckalb,duma43				
2.	Beans	Kat (B1, B9, B69 &B56), Nyota and Angaza ,redharycot,				
3.	Fodder	Napier grass (Bana & Kakamega I, II & III varieties) under Tumbukiza method, Bracharia,				
		Rhodes grass, Calliandra, Desmondium and Mulberry, lucern				
4.	Tea	Proper management				
5.	Coffee	Proper management, working with disease resistant				

## 5.4 Specific agro-weather Advisories for the Middle zones

Crops to plant	Wards: (Kagaari South, Gaturi south, Kyeni South Kirimari , Mbeti North and				
	Kithimu)				
1. Maize	Duma 41, Duma 43, DH04, KDV4 and KDV6, Pioneer 2848, Simba 61, WS403, Pannar				
	3M-05 & 4M-19),deckalb, makueni ,sungura				
2. Beans	Mwende, mwitemania, gachango, KATB1, KTB9, KATX69, KATX56, Nyota,redharycot				
	,mama safi,ka-meru				
3. Sunflower	Encouraged to plant for oil and animal feeds				
4. Cassava	Ndolo, Mucericeri and Tajirika,				
5. Sweet	KSP 004, KEMB 10 and Bungoma				
Potatoes					
6. Fruits	Encouraged to plant and do proper maintenance				
7. Fodder	Napier grass (Kakamega I, II & III varieties) under Tumbukiza method, Bracharia (basilisk				
	and MG4), Rhodes grass, Desmondium, Tithonia, Sweet potato vines (Musinya, X-				
	Mukurweini), Fodder trees(Calliandra, Leucaena & Mulberry. Farmers advised to conserve				
	excess fodder				

## 5.5 Specific agro-weather Advisories for the Lower Zone

Cuana ta plant	Wards( Mbeti South, Evurore, Muminji, Nthawa, Mavuria, Makima , Mwea and				
Crops to plant	Kiambere)				
1. Maize	Sungura,,deckalb,duma43 DeKalb ,Duma 43 DH02Sungura F1Haraka101DK777				
2. Beans	Kat (KATB 1 &KATB 56), Nyota and Angaza ,redharycot, GLP, Raila Wairimu				
3. Sorghum	Gadam,, millet				
4. Millet	PM 1, 2 & 3				
5. Cow peas	M66 & KVU 27-1				
6. sunflower Encouraged to plant for oil and animal feeds					
7. Green grams N26, KS 20, karembo.Biashara,Ndengu tosha					
8. Vegetables Cow peas leaves					
9. Cassava	Ndolo, Mucericeri and Tajirika				
10. Sweet Potatoes	Locals, KSP 20 & 20, Kemp 10, SPK 004 local kingee.				
11. Fodder	Sudan grass, fodder sorghum, Leucaena & Mulberry				
crop/trees					
12. Fruits trees	Mango, pawpaw and orange trees to be well managed				

# **5.6** General Analysis of Hazards/Risks and Opportunities (agriculture)

Hazards /risks	Opportunities	Proposed actions	Actors/Responsible
<ul> <li>Moderate floods (flash floods)</li> <li>Soil erosion</li> <li>Water logging in areas like Makima and Mwea</li> <li>Outbreak of crop pests and diseases</li> <li>Leaching of nutrients</li> <li>False on-set of rains</li> <li>Poor germination and loss of seeds</li> <li>Destruction of farm structures</li> <li>Low land productivity</li> <li>Low crop yield</li> <li>Loss of inputs and poor crop establishment</li> </ul>	Maximizing yields and income through planting recommended varieties Increased area under crop and farm forest cover Water harvesting for crop production and household use Availability of subsidized farm imput Availing of certified farm inputs by agro-dealers Kitchen gardening Crop insurance against crop loss Value addition Aggregation of cereals	Establish new and Repair existing soil and water conservation structures and farm facility structures Early land preparation and planting Staggered planting Timely procurement of inputs Embrace Integrated Pest Management and Integrated Crop Management Use of organic manure Procurement of crop insurance	WAO WLO Village based advisors Private extension service providers VBAs

# 5.7 Specific advisories for Livestock farmers

Hazard/Risks	Opportunities	<b>Recommended Actions</b>	RESPONSIBLE
Livestock diseases, Parasites	Feed Conservation	Pastures/fodder to be	Farmers
infestation, Poor pasture and	Breed improvement-for	established	WLPO
fodder establishment	adaptable breeds (Magic 50)	Bracharia species	Community
Inadequate pasture and fodder	Value addition	Sorghum Fodder	Extension
Reduced milk production	Water harvesting and storage	Sudan grass	Volunteers,
Low birth rates	Increase of small stock number	Napier grass	Inputs suppliers
Poor body condition	Breed improvement-for	Baby corn	
Low prices of animals	adaptable breeds	Desmodium	Service providers
Reduced water availability	Value addition	Calliadra	
Reduced household income	Water harvesting and storage	Boma rhodes	
	Increase of small stock number	Sweet potatoes- vines	
	Feed Conservation		
	Feed formulation		

## **5.8** Advisories for Other Livelihood Sectors

SECTOR	Impact	Hazards/ Risk	Opportunity	Intervention/Actio	Responsible
				ns	
Water resources	Water harvesting	Inadequate water infrastructures - Flash flood	Water harvesting & conservation	Water trucking, adopt Water harvesting structures e.g. dams, ponds, water tanks trenches	Dept of water and development partners
Disaster management	Few disasters likely to happen	Foods and whirl winds	Leverage on salvaged produce	Emergency /contingency plans	National Drought Management Authority, NGOs, Governments, Faith Based Organization
Wildlife	Increased	Loss of livelihood	Conservation and	Human /wildlife	KWS
/forestry	Human /wildlife conflict, Incidences of wild fire breakout.	Loss of wildlife	strict protection of the current biodiversity	conflict minimization through budgetary allocation for compensation, electric fencing, surveillance and enforcement, Afforestation programs	National & County Government Farmers
Trade,	commodity	Famine/	Prudent utilization	Subsidized trader	Dept of Trade,
industry and	price	drought/starvation	of current food	Reduced credit	Business
finance	increase Reduced per capita incomes		reserves, Importation of essential food commodities	interests	Community, National & County Government
Energy	Energy infrastructur e network collapse	Electrocution, Temporary blackouts	Maintenance of KPLC infrastructures, Investment on alternative energy sources	Allocate emergency funds, subsidy on fuel especially for domestic use	Kenya Power & Lighting Company
	Power	Short-circuiting	Energy saving	Alternative supply	Kenya Power &
	outages			e.g. solar, generators	Lighting Company
	Increased cost of Energy	Reduced electric energy generation	Intensified use of solar energy	Power rationing, Subsidies on solar power equipment	
Transport	Poor	Flash floods	Road for water	Diversion channels	Department of
/communicati	transport &		harvesting	Emergency funds	Transport, NTSA,
on	communicati on networks			/personnel, re clogging of culverts	National Government, County Government

SECTOR	Impact	Hazards/ Risk	Opportunity	Intervention/Actio	Responsible
				ns	
Health	Increased	decreased	Leverage on	Emergency /mobile	Ministry Of Health,
	Food	Malnutrition,	Nutrition, Increase	clinic, Increase	Private Hospitals,
	security	decreased food	food supplements	Health personnel,	Stakeholders
		deficient related	for young children	Enhanced public	
		ailments	and the elderly	health activities,	
				Prepositioning of	
				drugs in health	
				facilities	
Education	Enough	Poor school	Initiation of School	Early warning and	Department of
	foods	infrastructure due	feeding Program	preparedness	Education, NGOs,
		to parent's low			Faith Based
		incomes			Organizations,
					Parents

## 5.9 How to get Weather Updates

You can get weekly weather updates from the Counties folder in the KMD Website <a href="https://meteo.go.ke/node/4942">https://meteo.go.ke/node/4942</a> and via SMS messages every Monday evening or early Tuesday morning. For More information, Contact, the Nearest Agric Office: Ward, Sub County & County-Embu. And County Meteorological Office, Embu mobile +254705252469

# 6 Annex 1: Embu County Wards Map

