MAM 2025 ADVISORIES REPORT FOR MAKUENI COUNTY







ADVISORIES FOR THE MARCH - MAY 2025 (MAM 2025) SHORT RAINS SEASON

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1 MAM 2025 Seasonal Weather Forecast.

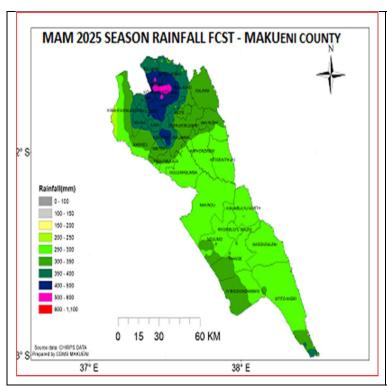
1.1 Highlights

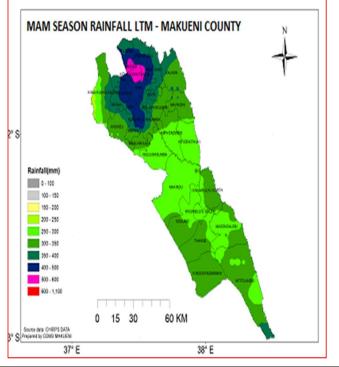
- ➤ The MAM 2025 rainy season is expected to be Near Normal (N) to Below Normal (B) with onset expected between 24th March to 6thApril, 2025.
 - The rainfall distribution both in time and space is expected to be poor to fair in most wards within Makueni County.
 - •Occasional heavy rainfall events that are likely to trigger flooding are also predicted to occur as the season progresses.
 - •Long dry spells are also predicted to occur during the season.
 - Peak rainfall is predicted during the month of April 2025.
 - •The predicted cessation dates is between 19th to 31st May, 2025.

1.2 Probable total Seasonal Rainfall

Amount Ranges: 200-250 mm; 250-300 mm; 300-350 mm; 350-400 mm; 400-500 mm; 500-600.

MARCH – APRIL - MAY 2025 SEASONAL FORECAST





1.3 Summary of the MAM 2025 Seasonal Forecast by Wards

$Summary\ of\ the\ MAM\ 2025\ Seasonal\ Forecast\ by\ Wards.$

			Seasonal A	Amount	Probable	Probable	
S/N o.	Sub County	Ward/ Climatic zone	Normal (Long term mean 1991- 2020)	Forecast for MAM 2025	Cessation dates	Length of Rain Period	Probable distribution
1		Kitise / Kithuki	250-300	250-300			
2		Kathonzweni	250-350	250-350			
3		Mavindini	250-350	250-350			
4	Makueni	Nzaui / Kilili/Kalamb a	300-500	300- 500			
5		Muvau / Kikumini	300-400	300-400			
6		Wote	300-400	300-400			
7		Mbitini	300-400	300-400			
8		Masongaleni	250-350	250-300			
9	Kibwezi East	Nzambani / Ivingoni	250-350	250-350			
10	East	MtitoAndei	250-350	250 -350	1		
11		Thange	250-350	250-350	1		Occasional dry
12		Makindu	250-350	250-300			spells coupled
13		Mulala / Emali	250-350	250-400	Between	45 - 70	with occasional heavy rainfall
14	Kibwezi	Nguu / Masumba	250-350	250-350	19 th to 31 st	days	events within the
15	West	Nguumo	250-350	250-350	May 2025		rain season that
16		Kikumbulyu North	250-350	250-300			could affect vulnerable crops.
17		Kikumbulyu South	250-350	250-300			
18		Kasikeu	300-400	250-400			
19	Kilome	Kiima/Kiu	200-400	200-400]	
20		Mukaa	300-400	300-400]	
21		Tulimani	350- 500	350-500]	
22		Mbooni	400 - 600	400-600]	
23		Kako/Waia	350-500	300-400		1	
24	Mbooni	Kalawa	300-400	300-350			
25		Kisau/Kiteta	350-600	350-600			
26		Kithungo/Kit undu	400 - 600	400-600			
27		Kilungu	350- 500	350-500			
28	Kaiti	Ukia	350-600	350-500]	
29	124111	Ilima	350-500	350-500]	
30		Kee	350- 500	350-500			

1.4. Recommendations

i) Choosing the right crops to plant:

- To minimize risks, choose the crops whose seasonal crop water requirement is within the lower limit value of the predicted range.
- Risk of long dry Spells within the rainy period:
 - At the moment we cannot reasonably predict the actual length of the dry spells and their impacts on various crops.
 - We therefore advise farmers to choose crops that are least vulnerable to such long dry spells
- Length of the rainy period(LRP):
 - The exact length of soil moisture is slightly higher than the LRP depending on crop type, soil type and the amount of moisture at the time of cessation.
 - o Choose the crop whose length of growing period to maturity is not too far from the LRP.

ii) Onset dates versus planting dates:

- For those wishing to dry plant, it is advisable to plant within one week before the predicted onset dates.
- For those wishing to wet plant, it is advisable to wait for the weekly weather update which is more accurate.
- Wet Plant when the **weekly forecast** indicates at least **3 days** with rain of a total amount **greater than 20 mm.**

2 Agro-Weather Advisories

2.1 General Responsibilities

- Farmers to implement the advisories
- Agricultural Extension 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, alerts, updates)
- Agriculture, Livestock and Fisheries department to continuously assist farmers.
- Insurance companies to provide crop and livestock insurance where applicable.

2.2 General Farm Activities

- Early land preparation: Third week of March 2025.
- Repair of soil and water conservation structures: Terraces, Zai Pits, Basins
- Repair of water storage structures: De-silting 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

2.3 When to Plant

• Dry plant at least one week before the predicted onset dates or Wet Plant when the **weekly forecast** indicates at least **3 days** with rain of a total amount **greater than 20 mm**.

2.4 Specific agro-weather Advisories for the Upper zones

Crop varieties to	Ukia Ward	Mbooni Ward	Kithungo/Kitundu, Kilungu,
plant	Probable MAM 2025 Seasonal Amount:	Probable MAM	Ilima, Kee Wards
	350 - 500 mm	2025 Seasonal	Probable MAM 2025 Seasonal
		Amount:	Amount: 350 – 600mm
		400 - 600 mm	
1. Maize	DHO ₂₋₄ , Sungura, Kishindo, Haraka, Duma series, Pioneer and DK series, PANNAR3M-05, Tosheka, Tsavo	Same crops	Same crops
2. Beans	Kat B1, GLP 92, KatX56, Kat B9, Locals, KatX69, Nyota, Faida, Angaza	Same crops	Same crops
3. Cow Peas	K80, M66, Locals Ken Kunde, Kunde mboga, Kunde Tamu, Kunde Soko	Same crops	Same crops
4. Pigeon peas	Maintain the existing short rains crop; - ICEAP 00936, ICEAP 00554, Mpesa, Mituki	Same crops	Same crops
5. Dolichos	Maintenance of existing crop (DL 1002, DL 1009)	Same crops	Same crops
6. Cassava	Maintenance of existing crop (KME 1, Mucericeri, KME 61, Red Stemmed Varieties, Locals)	Same crops	Same crops
7.Sweet potatoes	Maintenance of existing crop (Locals, KSP 20, Kemp 10, SPK 004)	Same crops	Same crops
8.Sorghum	Gadam, Serena, Seredo, Kari Mtama 1,Kari Mtama 2, Macia, Sila, local varieties	Same crops	Same crops
9.Millets	Finger millet, Pearl Millet varieties PM 1,PM2,PM3	Same crops	Same crops
10.Sunflower	KENYA FEDHA, 8998, HYSUN 33	Same crops	Same crops

Specific Advisories for Livestock Sector – Upper Zone

	Recommended Actions		
Activities on Livestock Sector	Pastures/Fodder to be established		
	 Cow peas(M66) Desmodium Calliadra Sudan grass Bracharia species Sorghum Fodder Pennisetum species (forage millet) Cenchrusciliaris Nappier grass (hybrid varieties) 		
	 ✓ Creating awareness to enhance the preparedness of the community ✓ Ration feeding/Paddocking/conservative feeding ✓ Destocking for appropriate carrying capacity. ✓ Adopt Home feed formulations. ✓ Breed management ✓ Rehabilitation of Existing and establishment of new water harvesting structures 		

✓	Bush management for pasture improvement		
✓	De-worming		
✓	Tick control		
✓	Vaccinate the animals against weather related diseases (RVF,Anthrax)		
✓	Proper housing for livestock protection.		
✓	Timely harvesting and preservation of pastures, fodder and water		
✓	Rehabilitation of fish ponds		
✓	Restocking of fish ponds.		
✓	Supplemental animal feeding		
✓	Facilitating livestock offtake		
✓	Preservation and use of crop residues		
✓	Hoof trimming, tail docking and dehorning		
✓	Creating awareness on rection insurance eg. Dia v		
│	✓ Increased disease surveillance		
•]	•Proper housing		
•]	•De-worming		
•	•Tick control		
•1	•Restocking of fish ponds		
•1	Rehabilitation of fish ponds		

2.5 Specific agro-weather Advisories for the Middle zones

Crops to plant	Wards:
	Tulimani, Kako/Waia, Kisau/Kiteta, Mukaa, Kasikeu, Nzaui/Kilili/Kalamba, Emali/Mulala,
	Wote/Nziu, Mbitini, Muvau/Kikumini, Kiima Kiu/Kalanzoni.
	Probable MAM 2024 amount:
	300-400 mm
1. Maize	DUMA 43,DH01, DH02, KISHINDO, SUNGURA,DK 8031, HARAKA
2. Beans	KAT B1,KAT X56, NYOTA, KATB9, GLP 92, KATX69, NYOTA, FAIDA, ANGAZA
3. Green/Black	BIASHARA, KAREMBO, KS20, N26, NDENGU TOSHA
Grams	
4. Cow peas	K80, M66, KUNDE SOKO, KUNDE TAMU, KVU-27-1, M66, KEN KUNDE, BLACK EYE (Kang'au),
	KUNDE MBOGA
5. Dolichos	DL1002, DL1009
6. Sorghum	GADAM, KARI MTAMA 1, KARI MTAMA 2, SEREDO, MACIA, SERENA, SILA
7. Millets	KAT PM-1,2.3.
8. Finger Millet	LOCAL VARIETIES

	Recommended Actions		
Activities on Livestock Sector	Pastures/Fodder to be established		
	Sorghum Fodder		
	Sudan grass		
	Bracharia species		
	Cenchrusciliaris (Ndatakivumbu)		
	EragrostisSuperba (Mbeetwa)		
	Forage sweet potato		
	Pennisetum species (forage millet)		
	• Lucerne		
	Dolichos lablab		
	Nappier grass (hybrid varieties)		
	Chloris Roxburghiana (Kilili)		
	• Cow peas(M66)		
	✓ Creating awareness to enhance the preparedness of the community		
	✓Destocking for appropriate carrying capacity		
	✓ Adoption of home feed formulation		
	✓Ration feeding/Paddocking/conservative feeding		
	✓ Breed management		
	✓ Rehabilitation of Existing and establishment of new water harvesting		
	structures		
	✓ Bush management for pasture improvement✓ De-worming		
	✓ Tick control		
	✓ Vaccinate the animals against weather related diseases (RVF,Anthrax)		
	✓ Proper housing for livestock protection.		
	✓ Timely harvesting and preservation of pastures, fodder and water		
	✓ Rehabilitation of fish ponds		
	✓ Restocking of fish ponds.		
	✓ Supplemental animal feeding		
	✓ Facilitating livestock offtake		
	✓ Preservation and use of crop residues		
	✓ Hoof trimming, tail docking and dehorning		
	✓ Creating awareness on livestock insurance eg. DRIVE		
	✓ Increased disease surveillance		
	- D 1 .		
	Proper housing		
	• De-worming • Tiels control		
	Tick controlRestocking of fish ponds		
	Restocking of fish ponds Rehabilitation of fish ponds		
	•iconaomation of tion ponds		

2.6 Specific agro-weather Advisories for the Lower Zone

Crops to plant	Wards: Makindu, Nguu/Masumba, Kalawa, Kikumbulyu South, Kikumbulyu North, Nguumo, Thange, Nzambani/Ivingoni, Mavindini, Kathonzweni, Kitise/Kithuki, Masongaleni, Mtito Andei, Probable MAM 2025 amount: 250-350 mm
1.Maize	No variety recommended due to the forecast erratic rainfall for Lower Zone
2.Beans	No variety recommended due to the forecast erratic rainfall for Lower Zone
3.Green Grams	N26, KS20, Biashara, Karembo and Ndengu Tosha
4.Cow Peas	K80, M66, KVU419, , KVU27-1,Locals (Kangau), Ken Kunde, KUNDE Soko,Kunde Mboga
5.Sorghum	Gadam, Kari Mtama 1 & 2, Serena, Serendo, Sila, locals, Kamani
6.Pearl Millet	PM1,PM2,PM3
7.Sunflower	KENYA FEDHA ,H998, HYSUN 33
8.Sweet potatoes	Locals, KSP 20, Kemp 10, SPK 004 local Kingee,(areas along chyulu hills)with water harvesting structures and earthing up
General Farm Activities	 Practice Conservation Agriculture(zai pits, ripping.mulching,crop rotation) Early land preparation, Repair soil and water conservation structures, Repair of storage water structures e.g farm ponds, weirs, water tanks, Dry planting. Timely seeds acquisition, Scale up manure and fertilizer application, Timely weed control, Timely and proper pests and disease control, water harvesting and irrigation. Proper spacing of crops Plant certified seeds. Practice water conservation technologies e.g-Zai pits, Trapezoidal bands Procure crop insurance in case of loss
8.Pasture Grass/Fodder Shrubs	Ratoon pasture grasses such as NdataKivumbu (<i>EragrostisSuperba</i>), <i>BrachariaMulato</i> , Boma Rhodes, Sugar Graze, Nutri-feeds, <i>Panicum</i> <i>species</i> (Mbwea), Masai Love Grass etc.

General Activity Plans

S/No.	Activity	When	By Whom	Remarks
1.	Land preparation	Ongoing until 21/3/2025	Farmers	Use of CA is recommended
			Service Providers	
2.	Dry planting	Ongoing until 21/3/2025	Farmers	Use of recommended certified
			Service Providers	seeds and plant varieties
				Application of manures and
				fertilizers
3.	Wet planting	22/3/2025 - 04/4/2025	Farmers	Use of recommended certified
			Service Providers	seeds and plant varieties
				Application of manures and
				fertilizers
4.	Gapping, Thinning & Weeding	1 st – 2 nd Week of April,	Farmers	Continuous activity
		2025	Service Providers	
5.	Pest and Disease Control	From 1st Week of April,	Farmers	Adherence to spray programs
		2025	Spray Service Providers	Continuous consultation with
				Agriculture Extension Officers
6.	Harvesting	From 3 rd week of May	Farmers	Harvest at physiological
		2025	Service Providers	maturity
7.	Post-harvest management and	From 1st Week of June	Farmers	Grains to be dried to the

Marketing	2025	Service Providers	recommended moisture content
		Marketing agents	(13.5% for cereals)
			Drying of vegetable leaves

2.7 General Analysis of Hazards/Risks and Opportunities (Agriculture)

Dialra	D 1.	Cavammanta at 1- at1-
Risks	Drought	Governments at both levels
	• Famine	NGOs
	Destruction of infrastructure due to occasional heavy rains	
	Human wildlife conflicts	Farmers Kenya Red Cross
	Resource based conflicts	KMD
	Reduced crop yields	KWID
	Low water levels	
	• Forest fires	
	 Increased incidences of pests and diseases 	
	Domestic violence	
	Prostitution	
Opportunities	Pasture/feed conservation	Governments at both
	• Proper post-harvest management of the previous	levels
	harvest	NGOs
	Water harvesting	Insurance Service -
	• Adoption of Climate Smart Agriculture	Providers
	technologies/Good Agricultural Practices (GAPs)	Farmers
	Hay harvesting	Service Providers
	Water trucking/Vending	Input Suppliers
	• Crop insurance	
	Water harvesting	
	Business opportunities for Agro-dealers and farmers	
	Opportunities for tree planting	
	Livestock insurance	
	 Dissemination of Agro-Weather advisories 	
	Increase in hay trade	
	Silage production	
	Water business	
Impacts	✓ Food and nutrition insecurity	Governments at both
Impacts	✓ Low crop yields	levels
	✓ Limited availability of pasture and browse	NGOs
	✓ High cost of hay	Farmers
	✓ High cost of living	1 32111010
	✓ Poverty	
	✓ Increased incidences of human wildlife conflicts.	
	✓ Poor performance in schools	
	✓ Early marriage & unplanned pregnancies	
	✓ High incidences of divorce	
	✓ HIV/AIDS increase	
	✓ Increase in school dropout rates	
	*	

2.8 Specific advisories for Livestock farmers

	Recommended Actions	Responsible
Activities on Livestock	 Pastures/fodder to be establishment Panicum maximum (Mbwea) Chloris Roxburghiana (Kilili) Pennisetum species (forage millet) Cenchrusciliaris (Ndatakivumbu) Eragrostissuperba(mbeetwa) 	Farmers WLPOs Community Extension Volunteers Input suppliers
	•Ration feeding/paddocking/conservation feeding •Ratooning pasture grasses such as EragrostisSuperba (NdataKivumbu) • Destocking for appropriate carrying capacity • Adoption of home feed formulation • Breed management • Rehabilitation of existing and establishment of new water harvesting structures • Bush management for pasture improvement • De-worming • Tick control • Vaccination of livestock against weather related diseases (e.g. RVF,Anthrax) • Proper housing for livestock • Timely harvesting and preservation of pastures and fodders • Rehabilitation of fish ponds • Restocking of fish ponds	WLPOs Farmers Community extension volunteers Service providers

3 Advisories for Other Livelihood Sectors

SECTOR	Impact	Hazards/ Risks	Opportunity	Intervention/Action	Responsible
				plan	
Water	•Reduced	• Drought	•Water harvesting	Water trucking, Adopt	KWS, NDMA,
resources	water levels in rivers and reservoirs • Drought • Low recharge of aquifers •Below normal	 Insecurity Drying up of planted trees Forest fires Reduced livestock feeds Low water levels 	& conservation • Pasture/feed conservation • Water business • Conflict resolution Good working relations between	Water harvesting structures e.g. dams ,ponds ,water tanks and roads for water. Frequent servicing of boreholeso0 nd fuel subsidy Enhance conflict management	WRA, Community, Dept. of water, Sanitation & Irrigation, Department of Agriculture, Livestock, Irrigation and development

	stream flows • Food	in water sources • Resource based	Government and partners	strategies, Public awareness on	Partners
	insecurity	conflicts increase	Existence of a contingency plan	water conservation	
	• High cost of living	•Increased human-wildlife conflicts		Water abstraction surveys	
	• Increase in resource based conflicts	Increased human- human conflict		Enforcement of water allocation plans	
	• High crime	Increased vandalism		Water rationing Strict adherence to	
	rates • Increased	• Increased incidences of pests		water rationing schedules	
	school dropout rates	and disease outbreak		Activate the contingency plan	
	•Gender Based Violence	Anticipated breaching of dams		Use efficient irrigation methods	
	Anticipated flash floods			Adherence to irrigation schedules	
	may cause flooding in flood prone areas			Enhance water treatment at household level	
	Compromised water quality			Use alternative green energy power sources (solar energy)	
				Promote kitchen gardens at household and institutional level	
				Close monitoring of river flows and especially for those originating outside the County	
Disaster Manageme nt	Drought	 Famine Water scarcity Crop failure Migration of livestock and wild animals Resource based 	 Anticipatory planning Early warning systems Existence of Drought contingency plans 	 Sensitization and disseminating of early warning information for anticipatory action Enhance awareness 	N. Govt (NDMA, KWS, KMD, NGAO, KFS, Social Protection, Education)

conflicts/ins urity Human wildlife conflicts Increased incidence of crop pest and diseases Human and livestock diseases Forest and wildland fir Land degradation and deforestatio School drop outs Child protection issues Gender base violence Interference with socioeconomic activities	peace/ conflict resolution and DRR committees • Coordination and synergy across sectors (CSG) • National and county emergency funds • Policy and institutional frameworks.	campaigns on water conservation and drought risks Embrace partnerships and collaboration Adhere to agroweather advisories to plant the appropriate crops Properly dry and store harvested grains Embrace watersaving techniques such as rainwater harvesting, efficient irrigation systems and conservation practices Enhance appropriate water harvesting, distribution and storage techniques Ensure proper management and maintenance of water resources Adoption of technology-based water solutions Promote adoption of livestock insurance Promote plantingof drought-tolerant crops Embrace Integrated soil fertility management Enforcement of the relevant acts Activation of the emergency/contin gency plans Carry out routine vaccination and timely pest and	Water, Health, Agriculture, Livestock, Education) NGOs Private actors CBOs
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Flash floods, mudslides &Strong winds.	 Displacement Destroyed infrastructures Loss of lives and livelihoods Outbreak of water borne diseases. 	 Anticipatory planning Early warning system Existence of Floodcontinge ncy plans Coordination and synergy across sectors (CSG) National and county emergency funds Policy and institutional frameworks. 	disease management Foster cohesion by addressing conflicts and child protection issues Provision of social safety nets to cushion vulnerable populations during drought periods. Issue warnings well in advance through various channels. Alerts should include evacuation notices, safety instructions, and specific locations at risk Effective maintenance of drainage systems to reduce water accumulation and prevent flash floods Awareness campaigns on the risks of flash floods and mudslides Embrace soil conservation practices, such as terracing, cover crops, and mulching, to reduce erosion and the risk of mudslides, especially in hilly areas Trim trees near power lines and infrastructure to prevent them from falling during high winds, causing power outages or	Nat. Govt (NGAO, KFS, KPLC) C. Govt (DRM, Water, Health, Agriculture, Environment) NGOs (KRCS) Private actors
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				damage Strengthen utility poles and transformers to resist wind damage.	Community.
Environme nt Sub Sector	Reduced Soil Moisture Increased Soil Erosion Water Scarcity Dust and Air Quality Issues	Loss of community livelihoods Reduced crop production and productivity Water scarcity and reduced river flows. Increased dust and air pollution.	Strengthening Community Resilience programs on climate-smart agriculture (e.g., drought-resistant crops, conservation agriculture and indigenous trees like acacia and Meliavolkensii) to ensure food security. Public-Private	Water Harvesting and Storage: Promote rainwater harvesting techniques like farm ponds, water pans, and rock catchments to store water for domestic and agricultural use. Soil Conservation Measures: Sustainable Land Use Practices	National Government. 1. Kenya meteorological Department (KMD) 2. National Drought & Management Authority (NDMA) 3. Kenya Forest Service (KFS) Kenya Wildlife Service (KWS)
Wildlife Sub Sector	Limited Water Availability. Reduced Vegetation for Grazing Increased Competition and Predation.	Wildlife deaths Loss of Biodiversity Increased Human- wildlife conflicts Water and food shortage for wildlife.	Partnerships: Encourage collaboration between the government, NGOs, and local communities to implement adaptation programs. Disaster Preparedness and Response Plans: Develop contingency plans for extreme weather events, including drought preparedness strategies and Wildlife investment programs	Early Warning Systems: Strengthen climate monitoring and dissemination of seasonal weather forecasts Protection of Water Points Wildlife Corridors and Buffer Zones- Establish migration corridors to allow animals to access alternative grazing and water sources. Community Awareness and Conflict Mitigation:	Water Resource Authority (WRA) County Government. Makueni Climate Change Fund (MCCF) Community- Based Organizations (CBOs) & Local groups Non – Governmental Organizations and development Partners Kenya Red Cross Society (KRCS) Private Sector & Research Institutions

			Training and capacity building of	on peaceful co- existence with wildlife Establish mechanisms	KARLO South eastern Kenya University (SEKU)
			community members on sustainable forestry,	for reporting wildlife- related challenges.	Local Communities & Individuals.
			agro forestry	Supplementary Feeding in Critical Areas:	Farmers & pastoralists
			Carbon trading and	Reforestation and Agro-forestry:	Youth and Women Groups
Forestry Sub Sector	Slower Tree Growth Increased Fire Risk Reduced Regeneration of Indigenous Trees	Failed restoration program Increased wildfires Deforestation and illegal charcoal burning.	green projects including tree planting and conservation efforts to attract carbon credit investments and donor funding for environmental conservation. Multi-Stakeholder Platforms- Bringing together government agencies, CBOs and other institutions.	Promote the planting of drought-resistant indigenous trees and agro-forestry practices to improve tree cover. Fire Prevention and Control: Develop community-based fire management teams and early detection systems to prevent forest fires. Sustainable Charcoal Production; forest Protection Policies. Strengthen enforcement of laws against illegal logging and encroachment in	Traditional Leaders & religious Institutions
				forest reserves.	
Trade, industry and finance	•commodity price increase •Slowdown in	Famine/ drought/starvationHigh food prices	Prudent utilization of current food reservesImportation of	Subsidized trader Reduced credit interests	Dept of Trade Business Community National & County Governments
	business activity		essential food commodities	• Destocking of livestock to prevent	Sovermients
	•Unavailabilit y of commodities		•Preservation of food commodities	losses as pasture and water resources decline	
	•Exacerbation of food and nutrition		•Preservation of wildlife feeds and excavation of more water sources in	• Provision of relief food to the wards already vulnerable due	
		Dag	te 15 of 19		

	security and economic hardships in vulnerable areas of the county already affected by cumulative impacts of the previous poor rainfall season • Increased human-wildlife conflicts in areas that will have limited water and pasture impacting peoples' socioeconomic status.		their habitat.	to failed OND 2024 rains Expansion of irrigation schemes to support agricultural production in zones Enhancement of conflict resolution mechanisms Increased monitoring and surveillance of weather conditions by key stakeholders to enable early mitigation efforts.	
Energy	Decreased hydro-power production	•Temporary blackouts •Reduced businesses turnover •Power rationing	●Maintenance of KPLC infrastructures. ●Investment on alternative energy sources	•Allocate emergency funds •Subsidy on fuel especially for domestic use •Prudent use of power Alternative supply e.g.	Kenya Power (KPLC) Private power generators Kenya Power
	Power outages	Slowdown in business activitySpoilage of electric gadgets	•Intensified use of alternative energy sources like solar energy	solar, generators	(KPLC) Private power generators
	Increased cost of Energy	•Reduced electric energy generation •High cost of	•Intensified use of solar energy •Intensified use of alternative energy	•Subsidies on solar power equipment, generators etc.	Kenya Power (KPLC) Private power generators

		doing business	sources eg. green energy		
Health	Increased	Food insecurity	Good political will	Preposition health &	Ministry of Health
	disease	and malnutrition		nutrition commodities	Department of Health
	burden-		-Strong		Private Hospitals
	Increased	-Environmental	multisectoral	-Conduct Integrated	FBOs
	malnutrition	degradation &	collaboration-	mass screening/	Partners
	caseloads-	Climate change	critical in	Outreaches at	Community members
	MAM and		enhancing food and	identified hotspots	
	SAM/GAM	-Erratic	nutrition security		
		rainfall/drought		Intensify screening for	
	-Increased		-Presence of the	acute malnutrition	
	Morbidity-	-Social strain as a	County	among children under-	
	Water&	result of conflict	Contingency plan	fives years, pregnant	
	Vector borne	over diminishing		& lactating women in	
	diseases,	resources like	-Established	all health facilities	
	diseases of the	water	Partnerships-		
	respiratory		Presence of	-Intensify disease	
	system	-Stress and anxiety	stakeholders-	surveillance for	
		negatively	Partners	notifiable diseases	
	-Increased in	impacting mental			
	negative birth	health	-Receptive	-Procure and distribute	
	outcomes-Low		community	WASH commodities	
	birth weight,	-Emerging and	members		
	prematurity	reemerging		-Promotion of	
	and maternal	diseases	-Well-coordinated	Hygiene interventions	
	mortality		level 1 of health		
			care across the	-Enhance water	
	-Increased		county-240	sampling and	
	strain on		functional	domestic water	
	health		community health	treatment	
	infrastructure		units		
	and other			-Intensify health &	
	components of		-All Community	nutrition education	
	the health		health promoters	-Strengthen referrals&	
	system-human		have weighing	Linkages at all levels	
	resource and		scales and MUAC	of healthcare	
	commodities		tapes for growth	D 1	
	T 1		monitoring. Thus,	-Enhance partnerships	
	-Increased		early screening and	C4	
	mental health		referral for children	-Strengthen	
	issues-		with acute	psychosocial support	
	increased		malnutrition	programmes and	
	psychosocial		A :1-1-:1::(C	provide mental health	
	stress due to		-Availability of	services prioritizing	
	loss of		some nutrition	high risk zones.	
	livelihoods,		commodities-		

food insecurity and displacement -Increase in health inequalities, especially for the most vulnerable in population; OVC, PWD, etc.		especially those for managing severe acute malnutrition Partnerships		
Education Inadequate food. Inadequate water. Destruction of school infrastructure like sunken toilets in places where above normal rains will be experienced Increased cases of drowning in areas receiving above normal rains.	 High rates of school dropout cases Absenteeism High cases of teenage pregnancies, Child labour Poor grades/performance Water related diseases affecting learners. 	Practicing water harvesting Practicing kitchen gardening Enhancing feeding programs Provision of iron and folic Acid supplements to teenage girls. De-worming	•Early warning and preparedness •Enhancing/repair of school infrastructure •Tree planting including fruit trees. •Procurement of water storage facilities. •Sinking of boreholes •Water treatment practices •Sensitization on hand washing practices. •Distribution of sanitary kits. •Rescue camps •Upscaling of school feeding programs.	KMD NDMA MOE MOH, County Government NGOs Religious organizations Parents Learners Nat. Government

4 How to get Weather Updates

You can get weekly weather updates from the Counties folder in the KMD Website https://meteo.go.ke/node/4191 and via SMS messages every Monday evening or early Tuesday morning.

For More information Contact, the Nearest Agriculture Office, Ward Admin's Office, Sub County Offices & County Offices – Makueni County.

Makueni County Meteorological Office: Contact: 0795929926

Email: kmdmakuenicounty@mail.com