

## TREE SPECIES SITE MATCHING IN KENYA OCTOBER 2018

ECO-ZONE	OND Average Seasonal Rainfall	OND 2018 Forecast average season rainfall	Tree Species	Common Name	Management Options	End Use	Rotation	Tree/fruit Nurseries	Altitude (m)	Preferred Soil Type
I (Over 1800 mm rainfall)	900 mm	1000 mm	<i>Ocotea usambarensis</i>	Camphor	Plantation/ mixed systems	Timber	Medium to long (30-60 yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	1600-2500	Volcanic deep loamy soils
			<i>Acacia mearnsii</i>	Black wattle	Woodlot	Fuel wood, tannins	Short (5-10 years)		1600-2000	Volcanic deep loamy soils
			<i>Polyscias kikuyuensis</i>	Mutati (Kik)	Mixed, enrichment and natural systems	Peeler wood for boards	Medium (30-40 yrs)		1600-2500	Variable, red to loamy clay soils
			<i>Prunus africana</i>	Muiri (Kik)	Plantation/mixed /enrichment planting systems	Timber, medicinal	Medium to long (30-60 yrs)		1600-2500	Variable from highland red loamy to volcanic deep soils
			<i>Pinus patula</i>	Pine	Plantation	Timber/ paper	Short (16-20 yrs pulp) (25-30 yrs for timber)		1600-3000	Deep wet loams, but adaptable to variable soils but not clay and water-logged soils
			<i>Vitex keniensis</i>	Meru oak	Plantation /natural management system	Timber, ornamental, soil improver	Medium to long (30-60 yrs)		1700-2200	Deep volcanic, red to loamy clay soils

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			<i>Podocarpus gracilior</i>	Podo	Plantation /mixed /amenity	Timber, amenity	Medium to long (30-60 yrs), (pulp 16-20 yrs) (timber 25-30 yrs)		1800-2400	Red to loamy clay and volcanic soils
			<i>Cupressus lusitanica</i>	Cypress	Plantation	Timber/hedge /shelter belts	Short (25-30 yrs)		1800-3000	Well adaptable to variable highland soils
			<i>Acacia melanoxylon</i>	Black wood	Plantation/mixed planting	Soil conservation, timber, fuel	Short (8 yrs) (30 yrs timber)		2000-3000	Variable deep red to loamy sandy soils
			<i>Arundinaria alpina</i>	Bamboo (Murangi)	Plantation, boundary, groves, soil protection	Building, fencing, handicraft, soil protection	Short (6-10 yrs)		2200-3000	Deep red to volcanic loamy soils
II (1400 - 1800 mm rainfall)	700-900	800mm	<i>Markhamia lutea</i>	Markhamia (Eng), Siala (Luhya)	Woodlot/amenity/agroforestry	Timber/amenity soil nutrient enhancement, apiculture, ornamental	Short (15-30 yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	>1400	Red loam to clay loamy soils
			<i>Chlorophora excelsa</i> (Syn. <i>Milicia excelsa</i> )	Mvule	Plantation/mixed planting	Timber/Shade	Medium to long (30-60 yrs)		0-1400	Variable sandy to deep soils

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			<i>Grevillea robusta</i>	Mukima (Kik)	Plantation, hedge planting, agroforestry, woodlot, shelterbelt system	Timber, fuel, fodder, poles	Short (6 yrs for pole)(30 yrs for timber)		0-2500	Mostly variable but loves deep red soils
			<i>Phoenix reclinata</i>	Wild date Palm	Mixed system amenity	Water conservation, basketry, ornamental	Medium to long (30-60 yrs)		0-3000	Swampy and riparian soils
			<i>Croton megalocarpus</i>	Mukinduri	Plantation/mixed /enrichment/ natural systems	Fuel, poles, construction, peeler wood	Short to Medium (15-25 yrs)		1000-2000	Variable deep red to loamy sandy soils
			<i>Syzygium species</i>	Mukoe (Kik) waterberry (Eng)	Mixed system in water courses	Water conservation, timber, edible fruits, medicinal	Medium to long (30-60 yrs)		1000-2500	Swampy and riparian soils
			<i>Bischofia javanica</i>	Bishop wood	Plantation, enrichment planting	Timber	Short (30-40 yrs)		1200-1600	Deep red/loamy soils
			<i>Maesopsis eminii</i>	Mutere	Plantation/mixed /enrichment systems	Timber, reclamation	Short (25-50 yrs)		1200-1600	Deep red/loamy soils, deep, moist and fertile sandy loam soils

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			<i>Zanthoxylum gilletii</i> (Syn. <i>Fagara macrophylla</i> )	East African satinwood, Munyenye (Kik)	Plantation, enrichment planting	Timber, medicinal, ornamental, shade	Medium(30-40yrs)		1200-1900	Deep red to sandy loamy soils
			<i>Cordia abyssinica</i>	Muringa	Plantation	Timber/shade, apiculture	Medium to long (30-60 yrs)		1400-2500	Variable and wide spectrum but deep
			<i>Eucalyptus saligna/grandis</i>	Sydney Blue gum /Rose blue gum	Plantation /woodlots	Fuel, transmission posts, construction, timber, pulp	(Short 15-25 yrs for timber) 5-12 yrs for other uses)		1400-2500	Variable, medium to deep soils
			<i>Sesbania sesban</i>	Sesbania	Agroforestry/ mixed system conservation	Firewood, soil enrichment, water	Short (2-3 yrs)		1400-2500	Variable
			<i>Olea welwitschii</i>	Elgon Teak	Plantation/mixed natural system	Timber	Long (80-120 yrs)		1600-2400	Deep loamy soils
			<i>Eucalyptus regnans</i>	Mountain ash	Plantation /woodlots	Fuel, poles, building, timber	Short (4-6 yrs-poles) (10-20 yrs for timber)		2500-3000	Deep highland forest soils
			<i>A. mearnsii</i>	Black wattle	Plantation/ woodlot	Tanning, fuel	Short - (6-10 yrs)		1600-2000	Deep to medium red to red loam

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III (800-1400 mm rainfall) HIGHLAND REGION	400-700	600mm	<i>Brachylaena huillensis</i>	Muhugu (Kik)	Mixture/enrichment/natural system	Timber, fuel, carvings, construction, fencing, essential oils	Long (60-100 yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	200 - 1850	Red loamy to clay loam sandy soils. red, volcanic clayey loams in plateau forests and red soils in the coastal belts
			<i>Phoenix reclinata</i>	Wild date palm	Mixed system, amenity	Water conservation, basketry, ornamental	Medium to long (30-60 yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	0-3000	Swampy and riparian soils
			<i>Vachellia xanthophloea</i> (Syn: <i>Acacia Xanthophloea</i> )	Olerai (Maa)	Mixed systems	Water & soil conservation, soil enrichment, apiculture, medicinal	Medium (30-40yrs)		1000-2000	Riparian soils
			<i>Croton megalocarpus</i>	Mukinduri	Mixed, woodlot, boundary agroforestry managements	Fuel, shelter wood, charcoal, hedge, boundary planting, medicinal	Short (10-25 yrs)		1000-2000	Well adaptable to variable highland soils
			Syzgium species	Mukoe (Kik)	Mixed system in water courses	Water conservation, timber	Medium to long (30-60 yrs)		1000-2500	Swampy and riparian soils

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			<i>Cordia abyssinica</i>	<i>Muringa</i>	Plantation/mixed , woodlots, amenity, agroforestry	Timber, amenity, fuel	Medium to long (30-60 yrs)		1400-2500	Mainly red loamy soils
			<i>Eucalyptus saligna</i>	<i>Sydney blue gum</i>	Plantation/ woodlots/ shelterbelts	Fuel, poles, posts, fencing, timber	Short (5-12 yrs for poles) (15-25 yrs – timber)		1400-2500	Highland loamy Soils
			<i>Eucalyptus grandis</i>	<i>Rose blue gum</i>	Plantation/ woodlots/ shelterbelts	Fuel, poles, posts, fencing, timber	Short (5-12 yrs for poles) (15-25 yrs – timber)		1400-2500	Highland loamy Soils
			<i>Sesbania sesban</i>	<i>Sesban</i>	Agroforestry/ mixed systems	Firewood, soil enrichment, water conservation	Short (2-5yrs)		1400-2500	Variable soils
			<i>Schinus molle</i>	<i>Pepper tree</i>	Boundary/ ornamental planting	Amenity, fuel	Short (8-20 yrs)		1500-3000	Variable red to cotton loamy soils
			<i>Juniperus procera</i>	<i>Cedar</i>	Planation/ woodlots /mixed	Timber, posts, fencing, protection, fibre, lipids	Long (60-100 yrs)		1600-2000	Red loam to rocky shallow drained soils

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			<i>Macheria tippu</i> or <i>Tipuana tipu</i>	Tipuana tipu Rosewood, tipuana tree	Plantation/mixed	Timber	Medium (30-40 yrs)		1600-2000	Red loams to black cotton soils
			<i>Olea africana</i>	Mutamaiyu	Mixed planting	Beams, posts, carvings, fencing, wood fuel	Long (80-120 yrs)		1600-2000	Red to clay loamy soils
			<i>Jacaranda mimosifolia</i>	<i>Jacaranda</i>	Single tree management	Amenity, shade, apiculture, timber, medicinal	Short (4-10 yrs)		1600-2500	Variable soils
			<i>Brachylaena huillensis</i>	Muhugu	Woodlot, mixed, enrichment system	Timber, fencing, carving	Long (60-100 yrs)		200-1850	Mainly red loamy and sandy soils
			<i>Dovyalis caffra</i> synonym <i>Aberia caffra</i>	Kei apple	Hedge management	Hedge	Short to medium (8-25 yrs)		1400-2200	Variable Soils
IV (400 - 800mm rainfall) - LOWLA	200-400 mm	400mm	<i>Borassus aethiopum</i>	Borassus palm	Mixed systems	Water conservation, palm wine, basketry	Medium to long (30-60 yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI</a></li> </ul>	0 - 1400	Variable but mainly riparian, sandy, well-drained soils, but prefers alluvial soils near watercourses

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NDS			<i>Calliandra calothyrsus</i>	Calliandra	Agroforestry system	Fuel, soil nutrient enhancing, fibre, apiculture	Short (4-10 yrs)	<a href="#">Centers</a>	0-1400	Variable
			<i>Senna siamea</i>	Senna	Plantation/mixed	Timber, fuel, fencing	Short (4-10 yrs)		0-1400	Sandy to sandy-loam
			<i>Casuarina equisetifolia</i>	Whispering pine	Plantation /agroforestry	Timber, fuel, amenity, fibre, medicinal, tannins	Short (4-6 yrs)		0-1400	Sandy soils
			<i>Chlorophora excelsa</i>	Mvule	Plantation/mixed system	Timber, shade	Medium to long (30-60 yrs)		0-1400	Red caly-loamy to sandy loamy soils
			<i>Dalbergia melanoxylon</i>	Mpingo	Plantation/mixed	Timber, fuel, fencing, wood carving, medicinal etc	Long (80-120 yrs)		0-1400	Variable, sandy to sandy-clay, black cotton soils
			<i>Eucalyptus camaldulensis</i>	River red gum	Plantation/shelterbelt woodlot system	Fuel, poles, construction	Short (6-8 yrs)		0-1400	Red clay-loamy to sandy-loamy soils
			<i>Eucalyptus europhylla</i>	Blue gum	Plantation/woodlots	Fuel, poles, posts	Short (5-12yrs)		0-1400	Sandy to clay loams
			<i>Gmelina arborea</i>	Gmelina, white teak	Plantation	Timber, paper, match box, construction,	Short (15-25yrs)		0-1400	Sandy to sandy loam soils moist, fertile, freely drained soils; acid soils, calcareous



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						fuel, medicinal				soils and laterite soils
			<i>Leucaena leucocephala</i>	<i>Leucaena</i>	Woodlots/ agroforestry systems	Fuel, fodder, nutrient enhancement trees	Short (4-10 yrs)		0-1400	Clay-loamy to sandy soils
			<i>Markhamia lutea</i>	Muu (Kik), Siala (Luhya), Markhamia	Plantation/ amenity agroforestry system	Timber/amenity/soil nutrient input	Short (15-30 yrs)		0-1400	Red loam to clay loamy soils
			<i>Terminalia brownii</i>	Mururuku (Kik)	Woodlots, mixed plantings	Fuel, fodder, posts, medicinal, shade	Short (6-15 yrs)		0-1400	Sandy to sandy/clay loams
			<i>Azadirachta indica</i>	Mwarobaini kamili, Neem	Mixed/enrichment planting system	Timber, fuel, posts, fodder, medicinal	Short 15-25 yrs		0-1400	Sandy to sandy-clay soils to riverine clay/sandy soils
			<i>Dalbergia melanoxylon</i>	Mpingo	Woodlot/mixed enrichment systems	Timber, fuel, poles, carvings	Medium to long (30-60 yrs)		0-1400	Sandy to sandy-clay soils to riverine clay/sandy soils
			<i>E. camaldulensis</i>	River red gum	Plantation/ woodlot/ boundary plantings	Fuel, poles, posts	Short (6-8 yrs)		0-1400	Sandy to sandy-clay soils to riverine clay/sandy soils

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			<i>Gliricidia sepium</i>	Gliricidia	Woodlots/ agroforestry systems	Fuel, fodder, nutrient enhancement trees, apiculture, shade, timber	Short (4-10 yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	0-1600	Clay-loamy to sandy soils
			<i>Ficus sycomorus</i>	Mukuyu (Kik), Sycamore (Eng)	Mixed systems	Water conservation, fodder medicinal, shade, food, fibre	Medium to long (30-60 yrs)		0-2000	Riparian soils
			<i>Leucaena leucocephala</i>	Leucaena	Mixed, agroforestry systems	Fuel, fodder, agroforestry, benefit	Short (4-10 yrs)		0-2000	Variable but prefers slightly alkaline
			<i>Faidherbia albida</i>	<i>Olasiti (Maa) Ana-tree</i>	Mixed, woodlot, riverine plantings	Fuel, poles, apiculture	Short (6-15 yrs)		1000-1400	Sandy to sandy-clay soils to riverine clay/sandy soils
			<i>Senegalia senegal Syn: Acacia senegal</i>	Gum arabic, Enderkesi (Maa)	Woodlot/mixed enrichment	Fuel, poles, gum arabic production, apiculture	Short 15-25 yrs		1000-1400	Sandy to sandy-clay soils to riverine clay/sandy soils
			<i>Vachellia tortilis (Syn: Acacia tortilis)</i>	Sagararam (Maa) umbrella thorn	Mixed enrichment /agroforestry	Fuel, poles, fodder, apiculture	Short 15-25 yrs		1000-1400	Sandy to sandy-clay soils to riverine clay/sandy soils

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			<i>Senegalia polyacantha</i> (Syn: <i>Acacia polyacantha</i> )	White thorn	Mixed/woodlot systems	Fuel, poles, apiculture	Short 15-25 yrs	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	1000-1400	Sandy to sandy-clay soils to riverine clay/sandy soils
			<i>Vachellia seyal</i> (Syn: <i>Acacia seyal</i> )	Oljerai (Maa)Shittim wood	Woodlot/mixed enrichment planting system	Fuel, poles, posts, apiculture	Short 15-25 yrs		1000-1400	Sandy clay to sandy loam soils
			<i>Melia volkensii</i>	Mukau (Ka.) Melia (Eng)	Mixed/ agroforestry systems	Fuel, poles, fodder, timber, apiculture, fodder	Short 15-25 yrs		1000-1400	Sandy to sandy-clay soils to riverine clay/sandy soils sandy, clay and shallow stony.
			<i>Tamarindus indica</i>	Tamarind, Mkwaju (Swahili)	Mixed/ agroforestry systems amenity	Fuel, poles, fodder, fruits, apiculture, dye, shade timber	Short 15-25 yrs		1000-1400	Sandy to sandy-clay soils to riverine clay/sandy soils
			<i>Croton megalocarpus</i>	Mukinduri (Kik), Croton (Eng)	Woodlot/mixed enrichment systems	Fuel, Agropoles, medicinal, apiculture, timber, soil improver shade	Short to Medium (15-25 yrs)		1000-2000	Sandy to sandy-clay soils to riverine clay/sandy soils
			<i>Balanites aegyptiaca</i>	Desert date	Mixed/ enrichment planting system	Timber, fuel, edible fruits	Short 15-25 yrs		500-1400	Sandy to sandy-clay soils to riverine clay/sandy soils

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			<i>Azadirachta indica</i> (Mwarobaini)	Mwarobaini, Neem	Plantation/mixed	Timber, fuel, fencing, amenity, medicinal	Short (6-15 yrs)		0 - 1400	Sandy to sandy-loam
V - VI (Under 400 mm rainfall)	< 200 mm	200mm (Normal)	<i>Brachystegia spiciformis</i>	Mrithi, zebra wood, bean-pod tree (Eng)	Mixture/enrichment/natural system	Timber, railway sleepers. Ornamental, medicinal, apiculture, fuel, fibre, fodder, tannins	Long (60-100yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	0-200	Red loamy to clay loam sandy soils, avoids poorly drained shallow soils
			<i>Hyphaene coriacea</i>	Doum palm	Mixed systems	Water conservation, basketry	Medium to long (30-60 yrs)		0-1000	Sandy riparian soils
			<i>Senegalia senegal</i> (Syn: <i>Acacia senegal</i> )	Gum arabic, Enderkesi (Maa)	Woodlot/mixed/enrichment planting	Fuel, poles, gum arabic	Short 15-25 yrs		1000-1400	Sandy clay to sandy loam soils
			<i>Cordia sinensis</i>	Oseki (Maa) grey-leaved cordia (Eng)	Woodlot/enrichment systems	Fuel, poles, fodder, timber, gum, food	Short to Medium (15-25 yrs)		1000-1500	Sandy clay to sandy loam soils

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			<i>Salvadora persica</i>	Toothbrush tree, mustard tree, mustard bush	Woodlot/ enrichment systems	Fodder, soil, protection, amenity, food, timber, tannins, apiculture, shade, reclamation	Short to Medium (15-25 yrs)	<ul style="list-style-type: none"> <li>• <a href="#">KFS Ecosystem Conservators</a></li> <li>• <a href="#">KEFRI Centers</a></li> </ul>	1000-1500	Sandy clay to sandy loam soils
			<i>Ziziphus mauritiana</i>	Chinee apple, jujube, Indian plum Mkunazi (Swahili)	Hedge planting management	Live fencing, fruits, food, fuel, alcohol, medicinal	Short to Medium (15-25 yrs)		1000-1500	Sandy clay to sandy loam soils
			<i>Vachellia tortilis</i> (Syn: <i>Acacia tortilis</i> )	<i>Sagararam</i> (Maa)	Mixed, enrichment, agroforestry systems	Fuel, poles, fodder, apiculture	Short to medium 15-25 yrs		1000-1400	Sandy clay to sandy loam soils

Attached is the list of:

- [Kenya Forest Service Ecosystem Conservator Offices](#)
- [KEFRI Centres and Sub-centres](#)
- [Agro-Ecological Zones Map](#)
- [Predicted Rainfall distribution map \(March-April-May 2019\)](#)

## **KFS Ecosystem Conservator Offices**

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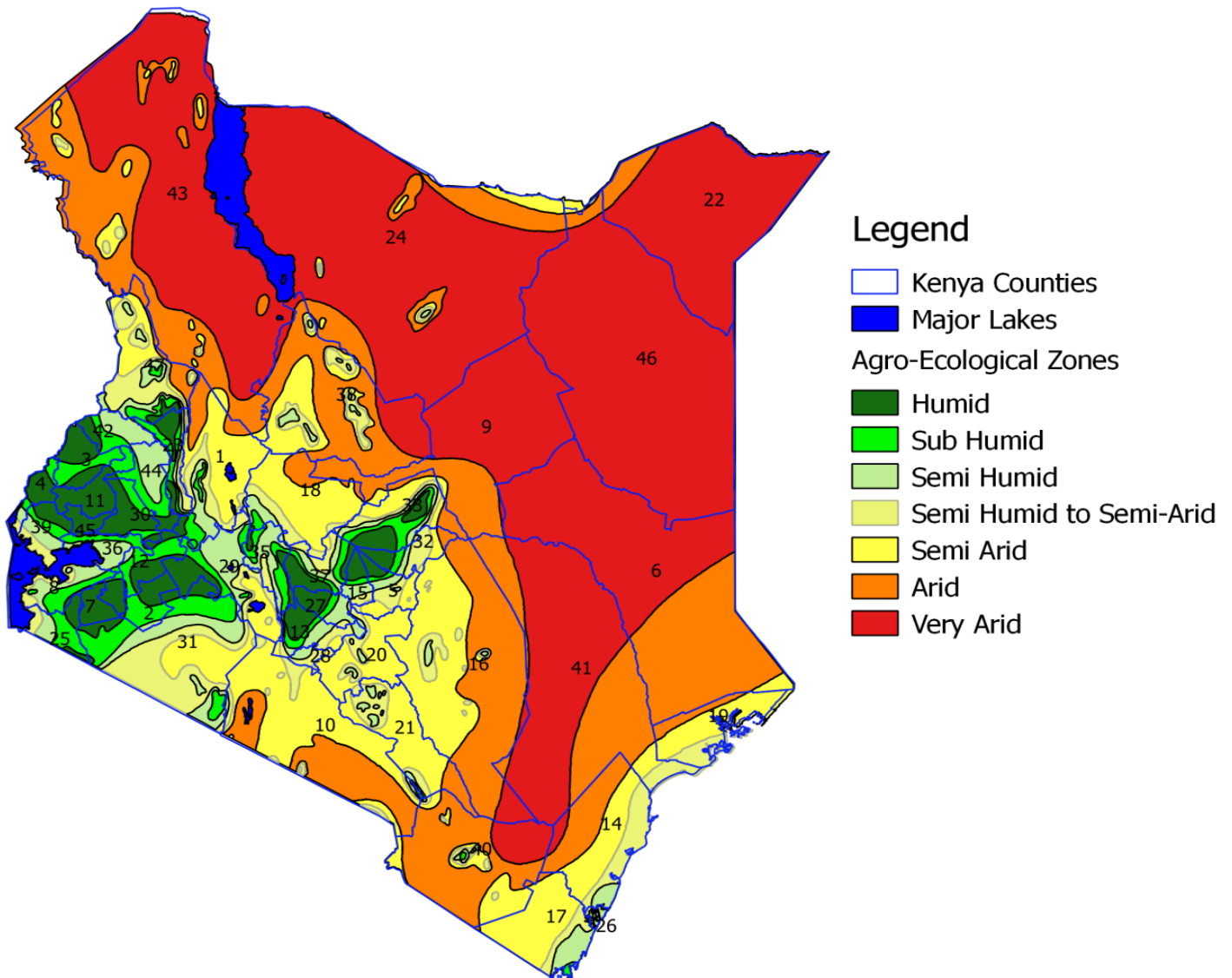
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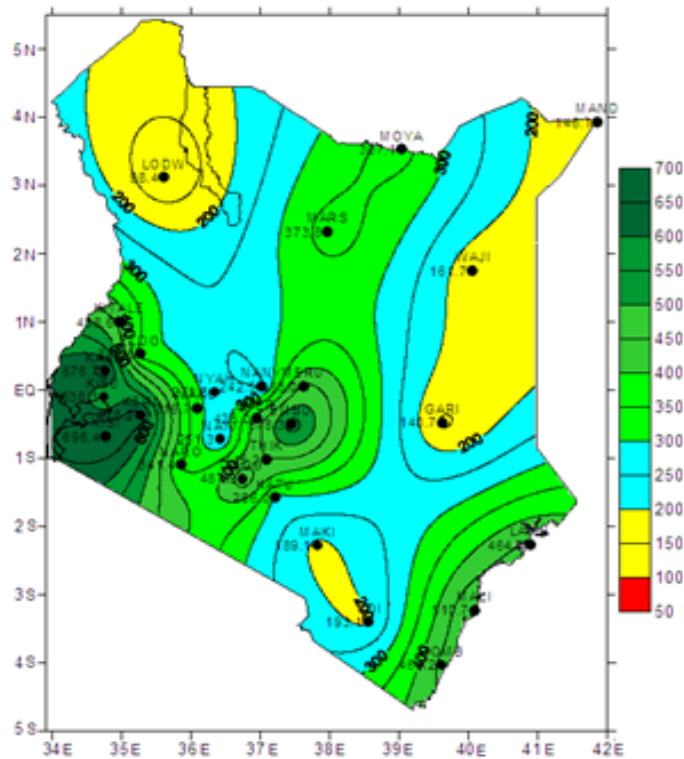
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## Counties and Agro-Ecological Zone



1 BARINGO	13 KIAMBU	25 MIGORI	37 NYERI
2 BOMET	14 KILIFI	26 MOMBASA	38 SAMBURU
3 BUNGOMA	15 KIRINYAGA	27 MURANGA	39 SIA YA
4 BUSIA	16 KITUI	28 NAIROBI	40 TAITA TAVETA
5 EMBU	17 KWALE	29 NAKURU	41 TANA RIVER
6 GARISSA	18 LAIKIPIA	30 NANDI	42 TRANS NZOIA
7 KISII	19 LAMU	31 NAROK	43 TURKANA
8 HOMA BAY	20 MACHAKOS	32 THARAKA	44 UASIN GISHU
9 ISIOLO	21 MAKUENI	33 MERU	45 VIHIGA
10 KAJIADO	22 MANDERA	34 NYAMIRA	46 WAJIR
11 KAKAMEGA	23 MARAKWET	35 NYANDARUA	47 POKOT
12 KERICHO	24 MARSABIT	36 KISUMU	

## Forecast for the Season of March- April - May 2019



Mean March-April-May Seasonal Rainfall

	Region	Onset Dates	Cessation Dates
1	Counties in the Lake Basin and in Highlands West of the Rift Valley	1 <sup>st</sup> to 2 <sup>nd</sup> week of March 2019	Rainfall will continue into June 2019
2	Southern parts of the Rift Valley (Narok, Kajiado etc);	3 <sup>rd</sup> to 4 <sup>th</sup> week March 2019	2 <sup>nd</sup> to 3 <sup>rd</sup> week of May 2019.
3	Central highlands including Nairobi area	3 <sup>rd</sup> to 4 <sup>th</sup> week March 2019	3 <sup>rd</sup> to 4 <sup>th</sup> week May 2019
4	Central Rift Valley (Nakuru, Nyahururu etc)	3 <sup>rd</sup> to 4 <sup>th</sup> week March 2019	Rainfall will continue into June 2019
5	South-eastern Counties	3 <sup>rd</sup> to 4 <sup>th</sup> week of March 2019	1 <sup>st</sup> to 2 <sup>nd</sup> week of May 2019.
6	Southern Coastal Strip	3 <sup>rd</sup> to 4 <sup>th</sup> week of March 2019	Continues into June 2019
7	Northern Coastal Strip	4 <sup>th</sup> week of March to 1 <sup>st</sup> week of April 2019	Continues into June 2019
8	North-western Counties	1 <sup>st</sup> to 2 <sup>nd</sup> week of April 2019	2 <sup>nd</sup> to 3 <sup>rd</sup> week of May 2019
9	Northern and North-eastern Counties (Wajir, Garissa, Mandera, Marsabit)	4 <sup>th</sup> week of March to 1 <sup>st</sup> week of April 2019	1 <sup>st</sup> to 2 <sup>nd</sup> week May 2019.

**KMD UPDATES:** The spatial and temporal distribution of the March to May 2019 seasonal rainfall was expected to be good over most of the western sector and generally poor over the eastern sector of the country, especially in the Arid and Semi-Arid Lands (ASALs). However, the existence of tropical cyclones and the unfavourable Sea Surface Temperatures (SSTs) patterns both in the Indian and the Atlantic Oceans are likely to result in poor distribution even over the western sector of the country. The onset of the seasonal rainfall that was expected between the third and fourth week of March 2019 over several counties in South Eastern, Coast, Central Kenya and Central Rift Valley is therefore likely to delay. However, the Tropical Cyclone “IDAI” has started decaying thus allowing moisture influx into the country.