ENVIRONMENTAL PERFORMANCE INDEX (EPI): 2018

NYAMIRA COUNTY

National Environment Management Authority, Kenya (NEMA)

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First published 2019 Extracts may be published if the source is duly acknowledged

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Our Environment, Our Life, Our Responsibility Mazingira Yetu, Uhai Wetu, Wajibu Wetu



MINISTRY OF FOREIGN AFFAIRS OF DENMARK Danida

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PREFACE

National Environment Management Authority (NEMA), recently domesticated the Environment Performance Index (EPI), a global tool, which measures performance in our State of Environment (SOE) and is the first step towards preparing Environmental Action Plans (EAP). The EPI is now part of the Report that the Cabinet Secretary for Environment and Forestry is obliged under EMCA CAP 387 to present to the National Assembly each year, applicable to both national and county level. The EPI ranks and compares County by County performance for select indicators, clearly illustrating where additional support, resource allocation and investment is needed. Maintained by Yale and Columbia University for the past 20 years, the Global EPI has ranked Kenya a "poor performer", currently at 130 out of 180 nations. This County brief, therefore, calls upon high level, County policy-oriented readership to work toward improve their grass root situation.

The Green Economic Strategy and Implementation Plan (GESIP), launched by the Ministry of Environment and Forestry in 2016, established that 40% of GDP and 70-80% of livelihoods are dependent on our natural resource base. Nature therefore underpins the Constitutional rights of every Kenyan to a health environment, improved well-being, employment and sustainable development. We see daily, growing reports of illegal anthropogenic pressures, over-exploitation, unregulated pollution and degradation eroding the quality of life of Kenyans. The very people who are causing this damage are our customers, our clients, "our voters". They need results! The EPI is designed to help us shape policy, bringing a green growth focus to national and county programs and plans.

The Constitution, in Schedule 4, laid out a two-tier system of government, placed emphasis on Devolved Environmental Functions (DEF) whereby County Governments are now responsible to implement EMCA CAP 387. The expectation is that Counties will use SOER to mainstream Environmental Action Plans (EAP) into their County Integrated Development Plans (CIDP). County EPIs therefore inform County Governments in a simple, easy to read, illustrative format, as to the "state of affairs", helping them to drive prioritization in budgetary decision making, and guiding fund allocation by the Commission for Revenue Allocation (CRA).

This Index provides a rich source of data and information that can be used by different audiences, particularly high-level political decision makers, County Executives and their donors. In subsequent years, it's expected that the County Environment Committee (CEC) will maintain the EPI database for the County Executive Member for Environment to inform political debate and dialogue, guiding County environmental governance, planning and budgeting. The EPI summarizes key messages of the County SOER, based on the Drivers, Pressures, State, Impact and Response (DPSIR) approach, describes trends, ascribes reasons for decline and lists the impacts of the anthropogenic pressures, and accordingly, recommending mitigation actions to fund.

The EPI is also a monitoring and accountability tool that both identifies the strong and weak points of environmental performance across sectors, and by County. It notes issues that require corrective actions or interventions needed from policy makers. At the same time, it respects the Constitution Article 42, that civil society and the public can hold duty bearers to account, using the EPI as a tool for a grass-root lobby to address weak spots. It fosters transparency, highlighting where policies need to give greater attention. It is also an important tool to assess on a regular basis the performance of sectors and Counties and could be used as part of sector or County Performance Contract, informing whether there is progression or regression over time.

We are indebted to the Danish Government, DANIDA for supporting the preparation of this report, and appreciate the NEMA technical team and acknowledge the many stakeholders who contributed.

Prof. Geoffrey Wahungu Director General National Environment Management Authority

COUNTY ENVIRONMENTAL PERFORMANCE INDEX: 2018

1. EXECUTIVE SUMMARY

1.1. What Purpose an EPI?

The Environment Performance Index (EPI) measures progress towards achieving 100% of a Sustainable Development target, helping to guide County and Sector policy, planners and decision makers to identify Counties with under-performing environment and natural resource management (E&NRM) sectors that need support, both politically and financially, and becomes a powerful lobby tool to increase investment, as needed.

1.2. How Well is the County Performing Overall?

The national EPI is 55.6%. The Nyamira County EPI is 50.8%, suggesting a below average performance, and placing its ranking as 34th out of 47 counties. The County is therefore in the category of "below average performing" counties, implying attention and investment is needed in the E&NRM budgets of the CIDP.

1.3. How Well is the County Doing by Sector?

Of the 27 indicators in the National EPI, the 13 containing County databases are attached and the assessment of the County performance suggests, it is doing well in the following sectors, notably:

- a. Water stress index is at 100% implying adequate water endowment.
- b. Tree cover loss has been maintained at 4%, giving an 96% tree cover retention vs 2000 baseline.
- c. Literacy levels are at 85%, above average, implying the community should be well educated in E&NRM.

1.4. Where is the County in need of Support?

The attached 13 indicators, suggest, poor performing sectors in the County where attention is needed includes:

- a. Waste water treatment is at a low $\frac{0\%}{0\%}$, and needs attention
- b. The capacity of environmental expertise is at 13% of requirement, suggesting more recruitment is needed.
- c. The health of 80% of households are exposed to poor indoor air quality pollution from paraffin lamps and 50% from cooking with fuelwood, needs urgent attention.
- d. Access to solid waste is a low 26%, needs improvement
- e. Access to improved sanitation is 39%, with room for improvement
- f. Expenditure on E&NRM is 39% of a target 40% of GDP

1.5. Recommendations for Environmental Action Plan of the County Government

- a. Waste water treatment plants require investment.
- b. Capacity in E&NRM expertise needs improvement
- c. Given the high number of households that are dependent on paraffin and fuelwood for cooking and lighting, investment is needed to promote more carbon efficient cook stoves and improved indoor ventilation to avoid respiratory health risks to women and young children exposed to black carbon and particulate matter in the kitchen.
- d. County need to increase CIDP expenditure on E&NRM and climate change
- e. County need to increase CIDP expenditure in solid waste management
- f. County need to increase CIDP expenditure in improved sanitation

2. COUNTY ENVIRONMENTAL PERFORMANCE INDEX (EPI): 2018.

2.1. How to Interpret EPI Scores

The Global Environmental Performance Index (EPI) has been domesticated by the National Environmental Management Authority (NEMA), and adapted to Kenyan conditions. The Kenyan Index reports national and county government performance in three areas: a) Environmental Health (ie air and water quality), b) Environmental Vitality (ie biodiversity and resource status) and c) Socio-economic Environment (ie. education and gender engagement). It is a State of the Environment (SOE) policy guide that looks at status of National and County service delivery and conditions that need additional support, resource allocation, investment and governance. It is a composite Index where the national EPI comprises 27 indicators of which 13 are County level indicators. The County number is lower because full data sets were not available.

The status of indicator is standardized across sectors, transformed for comparison to either % of population affected or % of land area involved (eg sanitation is measured as % of population, while forest cover is % of land area). Points are then allocated as per performance vs % towards a national target (100% being the ideal). A cumulative index of all sectors, add up on a weighted bias according to pre-determined judgement of the indicators relative importance and contribution to sustainable development, gives the national or County EPI.

2.2. How to Use the EPI to Inform Policy?

The EPI is a SOER, policy monitoring and accountability tool that both identifies strong and weak points of environmental performance across sectors as well as county by county. It notes issues that require corrective actions or interventions either by politicians, policy makers or planners. It also fosters transparency, highlighting where policies or budgets need to give greater attention to remedial solutions. It is designed as a compass, a pointer to draw high level attention to where additional political support, resource allocation, or donor investment is needed to improve livelihoods and human well-being. It does not attempt to explain the relationship and/or the impact of one variable on another, this would be the target of additional research.

2.3. Purpose of the County EPI Information Fact Sheet

The 13 County EPI Fact Sheets attached to this Report, are designed as a database to inform both national and county policy makers and planners, to help them at a glance to visualize the trends in E&NRM performance. It allows County Government to make comparison with their peers (ie County to County), and for sectors to assess in which County they are under-achieving. This information is for use by lobbyists to support their case either for policy change, or for justifying prioritization of investment needs during ADP budget debates.

2.4. Why a Kenyan EPI?

An EPI represents trends in the selected combination of a multiple of E&NRM sectors in the 3 policy categories. It allows a comparison between national and county performance towards achieving national goals (ie Vision 2030) and international standards (ie SDGs). The percentage measure of how close achievement is to target, is known as "proximity to target" (PTT) where 100% means "on target".

For the last 20 years, Yale and Columbia Universities have published a bi-annual global EPI, comparing 180 countries. Currently, Kenya is ranked 130, implying it is in the 25% "low performing category". In 2017, to re-address the situation, NEMA embarked on domesticating the tool to guide national and county planning, providing senior management with an insight into science based information for policy and decision making.

The EPI is part of the State of the Environment Report (SOER), presenting the national trend lines, with county by county performance comparison. The data is presented in a format whereby the connectivity between Drivers, Pressures, State and Impacts can easily be understood so as to illicit the right remedial Response (ie a process known as the "DPSIR approach" for SOER). The EPI is the first step in appraising the EAP performance whereby priority, appropriate mitigation actions can then be incorporated in National and County EAP, and mainstreamed into the County Integrated Development Plans (CIDP) and annual budgets.

2.5. How Policy Makers and Planners Can Use an EPI to Lobby for Resources?

An EPI is a tool whereby national and county policy makers and planners, their donors and NGOs can visualize performance trends and current status in any one of the selected priority E&NRM sector indicators. It helps the user to rapidly and visually assess County status vs national targets. County management can quickly pin-point in which sectors they are under-performing, and look at this as an opportunity to draw Ministry of Finance, the Commission for Revenue Allocation (CRA) or their donors attention to their situation.

The EPI helps make a strong case for where future investment is needed. The presentation as visual trends, info-graphics and GIS map can be easily interpreted by the National and County Assembly, and can be used by Councilors to guide them in political decision making how best to serve their Constituencies.

The EPI, in accordance with EMCA CAP 387, 9(3) is presented alongside the Cabinet Secretary, Ministry of Environment and Forestry (MEF) "Annual State of the Environment" report to the National Assembly. This makes it a powerful tool for a budget lobby, and offers Counties the opportunity to input, to ensure the Medium Term Plan (MTP) is sensitive to County E&NRM concerns and supports under-performing Counties budget requests during appraisal of Annual Development Plans (ADP).

2.6. The Kenya EPI Framework Explained

The EPI framework as domesticated for Kenya and illustrated in the tables below includes:

- a. A National EPI Framework made up of 3 policy segments and 27 issue based indicators.
- b. The National EPI comparison is ranked as a total of 27 Sector Indicators, based on the SOER data.
- c. The County EPI performance, presents a County by County comparison ranked as a total of 13 indicators.

2.7. The Kenya EPI Fact Sheets Explained

The attached 47 County EPI Fact Sheets, presents the SOER database, highlighting trends for the 13 County E&NRM indicators, based on:

- a. SOER trends of the national performance by sector.
- b. The County EPI by sector, of all 47 counties, graphically ranked from best to lowest performance.
- c. GIS map of the County by performance level.
- d. And the DPSIR of the individual County status.

Each Sector Fact Sheet graphic shows:

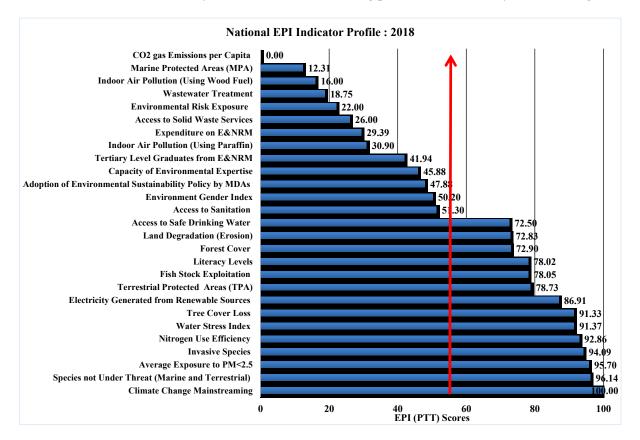
- a. The County in question, encircled in red to highlight its performance status ranked by sector and
- b. A red line which is the national average, and any County below this line, is effectively under-performing.

3. KENYA NATIONAL ENVIRONMENTAL PERFORMANCE INDEX FRAMEWORK: 2018

Objective Category	Policy	Indicator	Indicator Description	Target	Reference	
	Environmental Burden of Disease	Environmental Risk Exposure	% of a population exposed to environmental health risks (a composite of 4 factors of unsafe water, poor sanitation and poor air quality)	0%	WHO, Vision 2030	
		Indoor Air Pollution (Using Wood Fuel)	% of total households using wood fuel as energy for cooking.	0%	Vision 2030, CoK	
	Air Quality	Indoor Air Pollution (Using Paraffin)	% of total households using paraffin for indoor lighting.	0%	Vision 2030, CoK	
Environmental Health		Average Exposure to PM<2.5	% population exposed to fine particulate matter of $PM < 2.5 \mu g/m3$.	0%	Vision 2030, CoK	
	Water and Sanitation	Access to Safe Drinking Water	% of population having access to safe drinking water	80%	Vision 2030, MWI	
		Access to Sanitation	% population that has access to improved sanitation	100%	MOH	
	Environmental Nuisance	Access to Solid Waste Services	% of solid waste generated that is collected and disposed of in designated dumpsites	100%	Vision 2030, EMCA (2015)	
	Sustainable Water	Water Stress Index	% of water demand <40% of total available water resources	<40%	NWMP, 2030	
	Resources Management	Wastewater Treatment	% of urban population covered by formal sewerage services	100.0%	Vision 2030	
	Agriculture, Livestock and Fisheries	Nitrogen Use Efficiency	% N2 output vs N2 input to crops	>70%	SDG 2030	
		Fish Stock Exploitation	<50%	FAO Vision		
	Forests and	Tree Cover Loss % of tree cover vs area in 2000				
	woodlands	Forest Cover	% total land area covered in trees	10.0%	Vision 2030, CoK	
Ecosystem	Biodiversity and Habitat	Species not Under Threat (Marine and Terrestrial)	% of all 5 taxa of national species that are not under threat	0.0%	Vision 2030, IUCN	
Vitality		Terrestrial Protected Areas (TPA)	% of terrestrial protected area vs total terrestrial land area.	17.0%	CBD	
		Marine Protected Areas (MPA)	% of total MPA vs total marine area	10.0%	CBD	
		Invasive Species	% total land/water area not covered by 4 select indicator invasive plants/animals.	0.0%	Vision 2030	
	Climate Change	Climate Change Mainstreaming	% degree of climate change mainstreaming in National and County budgeting processes	100.0%	NCCAP	
	Climate Change	CO2 gas Emissions per Capita	<30%	UN, 2015		
	Energy	Electricity Generated from Renewable Sources	% electricity generated from renewable sources	80.0%	Vision 2030	
	Sustainable Land Resource Use	Land Degradation (Erosion)	% total land area that is not at very high risk from soil erosion	0.0%	SDG 2030	
		Capacity of Environmental Expertise	% of licensed EIA experts proportionate to 10,000 population	0.0001%	Expert Opinion	
	Environmental Education	Literacy Levels	% population over the age of 15 who can both read and write	100.0%	Vision 2030	
Socio		Tertiary Level Graduates from E&NRM	% students graduated in E&NRM courses from tertiary institutions	10.0%	Expert Opinion	
Economic Sustainability	Gender and Environment	Environment Gender Index	% of women involved in gender responsive environmental conservation	100.0%	Vision 2030	
	Governance,	Expenditure on E&NRM	% of expenditure on E&NRM Vs total expenditure	34.0%	Expert Opinion	
	Compliance and Enforcement	Adoption of Environmental Sustainability Policy by MDAs	% degree of adoption of environmentally sustainable policies by MDAs	100.0%	EMCA	

3.1. The National EPI Sector Profile: 2018

In domesticated the EPI to Kenyan conditions, the following performance trends by sector, emerge:



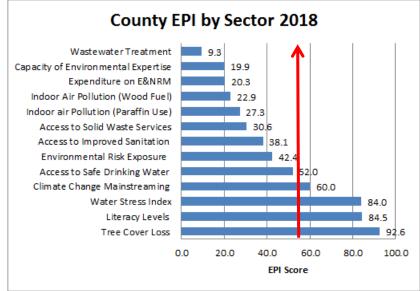
The top 5 Kenya national best performing E&NRM sectors are:

- a. Climate change mainstreaming has achieved 100% inclusion in all CIDP to date, of varying levels
- b. Species under threat are less than 5%, achieving 96% towards a zero threatened status.
- c. Exposure to outdoor air quality of PM<2.5 is <5%, achieving 95% to zero risk to human health.
- d. The spread of invasive species is just over 5% of area, achieving 94% toward zero coverage.
- e. Nitrogen use efficiency in agriculture is at 93% attainment of an international target.

The bottom 5 national poor performing sectors where attention is needed:

- a. Kenya has 0% achievement in its maintenance of CO_2 emissions at the agreed 2015 levels.
- b. Only 1.2% of Marine Protected Areas (MPA) has been achieved towards a target of 10%.
- c. >84% of households are exposed to harmful air pollution from indoor cooking fires and lighting.
- d. >81% of towns do not have adequate waste water treatment plants.
- e. >78% of population are exposed to environmental health risk from water and air pollution.
- f. Less than 26% of population has access to solid waste disposal systems.

3.2. How well are the Counties Doing?



Consolidated County EPI Scores by Sector

(The red line represents the national average showing under-performing sector of Counties)

Overall, it would appear that the top 5 low performing sectors in Counties vs targets are:

- a. Waste water treatment is at 9.3%
- b. Environmental expertise is at 19.9%
- c. Expenditure on E&NRM is at 20.3%
- d. Households not exposed to indoor air pollution from fuelwood is 22.9% and paraffin 27.9%
- e. Access to solid waste disposal is at 30.6 %

3.3. How Well is the County Performing: 2018?

The combined EPI score of all sectors ranks the County performance and the following graph allows comparison between Counties showing best performing and those in need of support.

3.4. How Well is the County Performance vs The National EPI?

The national EPI is 56.4, and the County EPI is 50.8 suggesting below average performance.

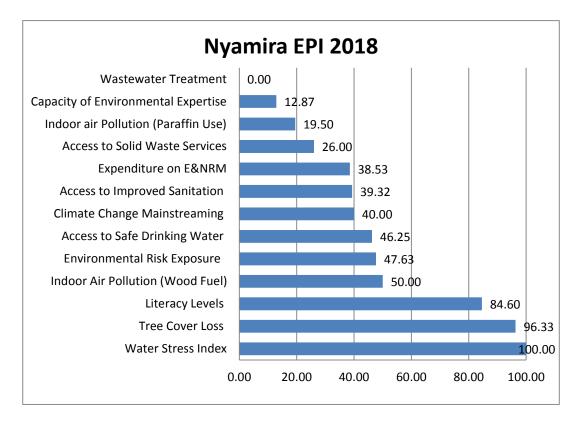
The County is ranked as 34nd out of 47 counties, placing it in the poorer performing Counties in Kenya, implying attention is needed to E&NRM in CIDP budgets & annual development plans (ADP).

	County	EPI			County	EDI 2017			
1	Nairobi City	75.5			County	EPI 2017			
2	Nyeri	67.1	Kwale			42.4			
3	Isiolo	62.9	Machakos			43.9			
4	Kiambu	61.6	Vihiga			44.3	T		
5	Garissa	61.5	Kisii			44.6			
6	Laikipia	60.9	Makueni			47.	.0		
7		60.5	Kilifi			47.	.2		
8		59.4	Siaya			47			
9	Trans Nzoia	59.0	Homa Bay			48			
	Busia	57.8	Mombasa			48			
11		57.1	Taita-Taveta			4			
12		57.0	Elgeyo-Marakwet				197		
	Nandi	56.9	Kajiado Kakamega				4999 50 <mark>3</mark>		
	Bungoma	55.5	Nyamira				503		
	Kisumu	55.3	Narok				5.1		
	Turkana	54.8	Bomet				51.6		H
	Meru	54.5	Samburu				51.8		H
	Wajir	54.2	Tana River				2.2		
	West Pokot	54.1	Marsabit				2.2		
	Nyandarua	54.0	Kirinyaga				2.6		
	Embu	53.9	Mandera				2.6		\square
	Baringo	53.5	Migori				2.8		
	Murang'a	53.2	Kericho				3.0		
	Tharaka-Nitl	53.0	Tharaka-Nithi				3.0		\square
	Kericho	53.0	Murang'a				5 3.2		
			Baringo				53.5		
	Migori	52.8	Embu				53.9		\square
		52.6	Nyandarua				54.0		
	Kirinyaga	52.6	West Pokot				54.1		\square
	Marsabit	52.2	Wajir				54.2		\square
	Tana River	52.2	Meru				54.5		
	Samburu	51.8	Turkana Kisumu				54.8 55.3		
	Bomet	51.6	Bungoma				55.5		
-	Narok	51.1	Nandi				56.9		
	Nyamira	50.8	Nakuru				57.0		
	Kakamega	50.3	Kitui				57.1		\square
	Kajiado	49.9	Busia				57.8		닏
	Elgeyo-Mara	49.7	Trans Nzoia				59.0		Ц
	Taita-Taveta	48.9	Uasin Gishu				59.4		Ц
	Mombasa	48.3	Lamu				60.5		Ц
	Homa Bay	48.0	Laikipia				60.9		Ц
	Siaya	47.7	Garissa				61.5		
	Kilifi	47.2	Kiambu				61.6		
	Makueni	47.0	Isiolo				62.9		
44	Kisii	44.6	Nyeri				67.:	1	
45	Vihiga	44.3	Nairobi City					75.5	
46	Machakos	43.9		0.0	20.0	40.0	60.0	80.0	
47	Kwale	42.4				-			

3.5. County EPI Profile: 2018.

The EPI scores of individual E&NRM sectors performance towards a target, can be ranked for each County according to the available data. In this way the EPI allows County governance and management to make a peer comparison between Counties showing best performing by sector and those that are under-performing and in need of additional support.

In the attached 13 sector EPI Fact Sheet County Profiles and Database, the position of the County vs other Counties can be compared for peer comparison and to emphasize where further priority investment is needed.



The County's top performing sectors are:

- a. Water stress index is at 100% implying adequate water endowment.
- b. Tree cover loss has been maintained at 4%, giving a 96% tree cover retention vs 2000 baseline.
- c. Literacy levels are at 85%, above average, implying the community should be well educated in E&NRM.

Poor performing sectors in the County where attention is needed includes:

- a. Waste water treatment is at a low 0%, and needs attention
- b. The capacity of environmental expertise is at 13% of requirement, suggesting more recruitment is needed.
- c. The health of 80% of households are exposed to poor indoor air quality pollution from paraffin lamps and 50% from cooking with fuelwood, needs urgent attention.
- d. Access to solid waste is a low 26%, needs improvement
- e. Access to improved sanitation is 39%, with room for improvement
- f. Expenditure on E&NRM is 39% of a target 40% of GDP

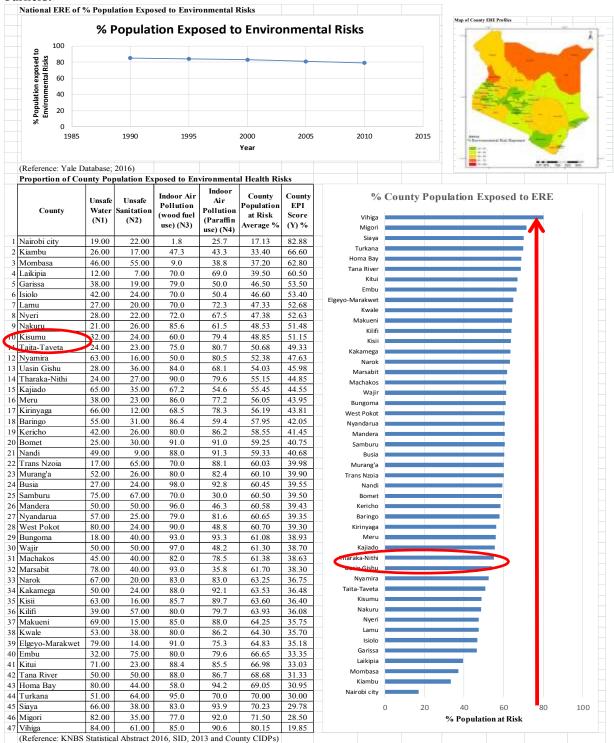
3.6. Recommendations for Environmental Action Plan of the County Government

- a. Waste water treatment plants require investment.
- b. Capacity in E&NRM expertise needs improvement
- c. Given the high number of households that are dependent on paraffin and fuelwood for cooking and lighting, investment is needed to promote more carbon efficient cook stoves and improved indoor ventilation to avoid respiratory health risks to women and young children exposed to black carbon and particulate matter in the kitchen.
- d. County need to increase CIDP expenditure on E&NRM and climate change
- e. County need to increase CIDP expenditure in solid waste management
- f. County need to increase CIDP expenditure in improved sanitation

4. EPI FACT SHEETS DATABASE

County EPI Fact Sheet 1. Environmental Risk Exposure (ERE)

Measures % of a population exposed to environmental health risks from: unsafe water, poor sanitation and poor air quality generally due to indoor cooking fires and use of parrafin lamps and burners.



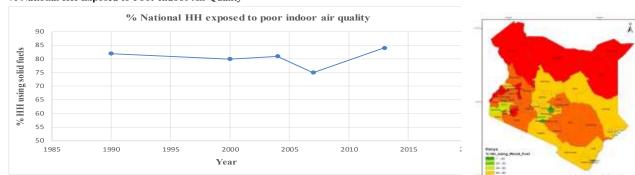
SOER Drivers, Pressures, Status, Impact and Response (DPSIR)

Driver:Poverty and poor services exposes people to environmental health risks.Pressures:Population growth and indiscriminant waste dumping contaminates air and water.State:National ERE is 78% population at risk & County at 52% is top 12 low threat riskImpact:Impacts health, affects human well-being, leading to morbidity and mortality.

Response: Promotion of cleaner cooking and lighting technologies and increased investments in water supply, sanitation and sewerage treatment infrastructure.

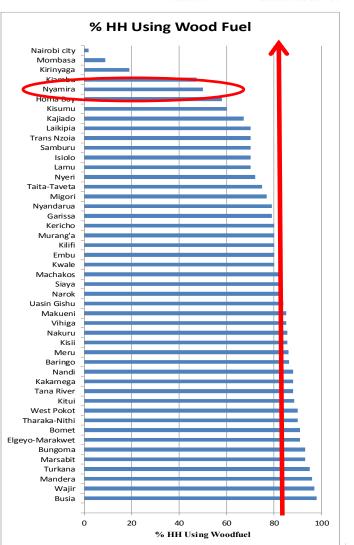
County EPI Fact Sheet 2. Indoor Air Pollution from wood fuel use

Measures % of total households using wood fuel for indoor cooking versus a target of 0% so to reduce human health risk from exposure to poor air quality from black carbon and particulate matter (PM). % National HH Exposed to Poor Indoor Air Quality



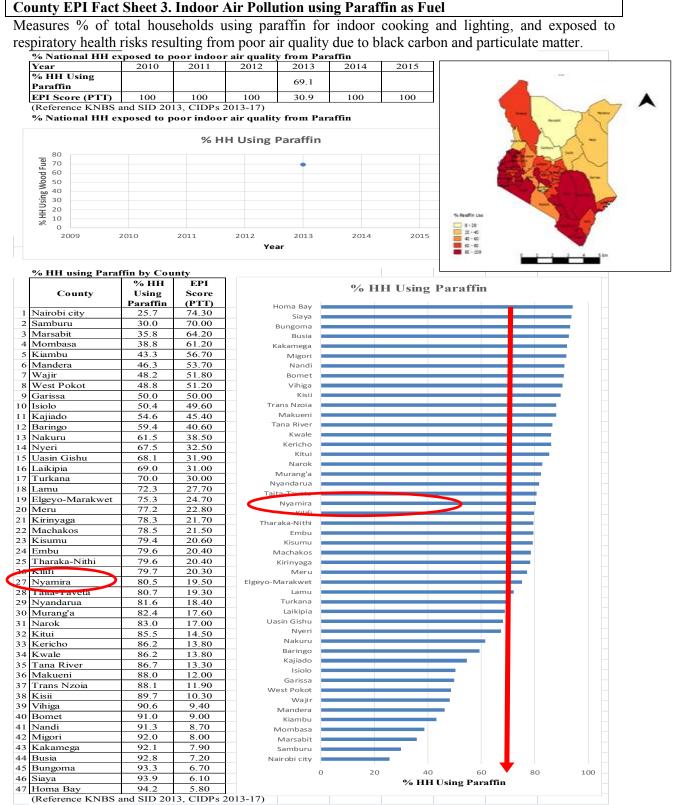
Reference: (Yale Database, 2016) % HH at County Level Using Wood Fuel

	70 IIII at County Level	Using W00	% HH		
		Total	No of HH	Using	EPI
	County	National	Using	Wood	Score
		No of HH	Wood Fuel	Fuel	(PTT)
1	Busia	154,225	151,141	98.00	2.00
2	Wajir	88,574	85,917	97.00	3.00
	Mandera	125,497	120,477	96.00	4.00
4		123,191	117,031	95.00	5.00
	Marsabit	56,941	52,955	93.00	7.00
	Bungoma	270,824	251,866	93.00	7.00
	Elgevo-Marakwet	77,555	70,575	91.00	9.00
	Bomet	142,361	129,549	91.00	9.00
9	Tharaka-Nithi	27,393	24,654	90.00	10.00
10		93,777	84,399	90.00	10.00
11	Kitui	205,491	181,654	88.40	11.60
12	Tana River	47,414	41,724	88.00	12.00
	Kakamega	355,679	312,998	88.00	12.00
	Nandi	154,073	135,584	88.00	12.00
	Baringo	110,649	95,601	86.40	13.60
	Meru	381,026	327,682	86.00	14.00
17		269,683	231,118	85.70	14.30
18	Nakuru	409,836	350,820	85.60	14.40
19	Vihiga	123,347	104,845	85.00	15.00
	Makueni	186,478	158,506	85.00	15.00
21	Uasin Gishu	202,291	169,924	84.00	16.00
	Narok	169,220	140,453	83.00	17.00
23	Siaya	199,034	165,198	83.00	17.00
24		264,500	216,890	82.00	18.00
25	Kwale	122,047	97,638	80.00	20.00
	Embu	131,683	105,346	80.00	20.00
	Kilifi	199,764	159,811	80.00	20.00
28	Murang'a	242,490	193,992	80.00	20.00
	Kericho	160,134	128,107	80.00	20.00
30		98,590	77,886	79.00	21.00
31		143879	113664	79.00	21.00
32	Migori	180211	138762	77.00	23.00
33	Taita-Taveta	71090	53318	75.00	25.00
	Nyeri	201703	145226	72.00	28.00
	Lamu	22184	15529	70.00	30.00
36	Isiolo	31326	21928	70.00	30.00
37	Samburu	47354	33148	70.00	30.00
38		170117	119082	70.00	30.00
	Laikipia	103114	72180	70.00	30.00
	Kirinyaga	154,220	105,576	68.46	31.54
	Kajiado	173464	116568	67.20	32.80
42	Kisumu	226719	136031	60.00	40.00
42	Homa Bay	206255	119628	58.00	42.00
	Nyamira	106385	53193	50.00	50.00
	Niamba	482450	228199	47.30	52.70
	Mombasa	268,700	24,183	9.00	91.00
	Nairobi city	985,016	17,730	1.80	98.20
	(Reference KNBS, 2016	. Statistical A	bstracts 2016		2013-17



SOER Drivers, Pressures, Status, Impact and Response (DPSIR)

Driver:Poverty drives a need for cheaper energy, such as fuel wood for cooking.Pressure:Air pollutants of black carbon and particulate matter affect human respiratory health.State:Ranked 4th, a low 50% population are exposed to health risk from indoor fires.Impact:Health and reduced well-being, lead to morbidity and mortality, especially women.Response:County to promoting cleaner technology for cooking, construction of well-ventilated kitchens and raise awareness on the implications of using wood fuel on human health.



Driver:Poverty drives HH to cheaper energy, such as paraffin for cooking and lightingPressure:Air pollutants affect human respiratory health from black carbon from paraffinStateRanked worst 27, 80% population are exposed to health risk from paraffin burning.Impact:Affects respiratory health and well-being, leading to morbidity, and mortality.Response:Promote cleaner technology for paraffin use, construction of well-ventilated houses and raise awareness on the implications of using paraffin on health.

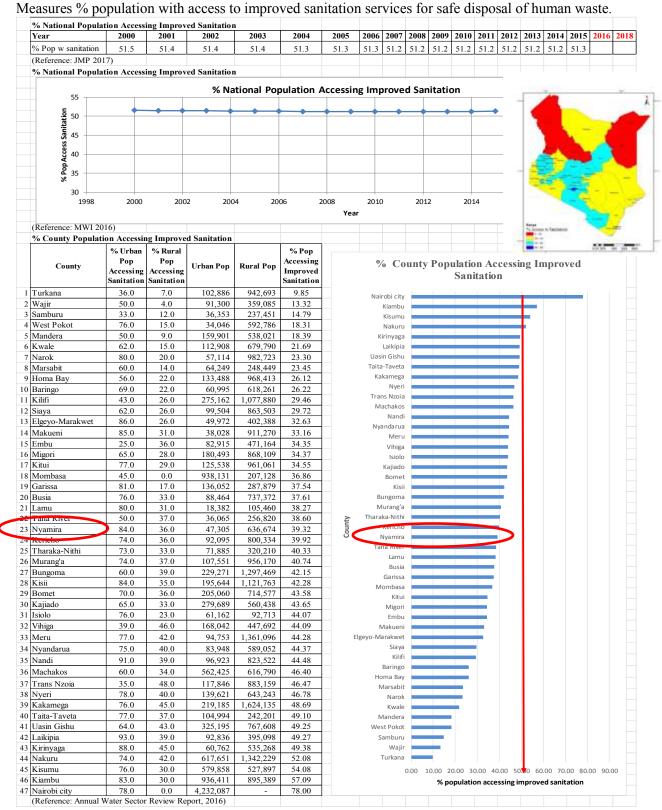
water borne diseases. National % Population Accessing Safe Drinking Water Trends in % Population Accessing Safe Drinking Water 70 60 % Population 50 40 30 20 10 0 2010 2011 2012 2013 2014 2015 2016 Year (Reference: Ministry of Water and Irrigation, 2016) **County % Population Accessing Safe Drinking Water** % % Population Accessi Population EPI EPI Score EPI Score County Accessing Score 0.0 20.0 40.0 60.0 80.0 100.0 (T=100) (T=80) safe drinking (T=80) Laikipia water Trans Nzoia 110.0 88.0 88.0 100.0 Laikipia Bungoma Trans Nzoia 83.0 83.0 103.8 100.0 2 Nairobi city Bungoma 82.0 82.0 102.5 100.0 Nakuru Nairobi city 81.0 81.0 101.3 100.0 Taita-Taveta 79.0 79.0 98.8 98.8 5 Nakuru Tharaka-Nithi Taita-Taveta 76.0 76.095.0 95.0 6 Bomet 7 Tharaka-Nithi 76.0 76.0 95.0 95.0 Kiambu 8 Bomet 75.0 75.0 93.8 93.8 Lamu 9 Kiambu 74.0 74.0 92.5 92.5 Busia 10 Lamu 73.0 73.0 91.3 91.3 Nyeri 11 Busia 73.0 73.0 91.3 91.3 Uasin Gishu 72.0 90.0 90.0 12 Nyeri 72.0 Embu Uasin Gishu 72.0 72.0 90.0 90.0 13 Kisumu 14 Embu 68.0 85.0 85.0 68.0 Garissa 15 Kisumu 68.0 68.0 85.0 85.0 77.5 77.5 62.0 62.0 16 Garissa Kilifi 77.5 77.5 62.0 62.0 Isiolo 18 Kilifi 76.3 76.3 61.0 61.0 Kericho 58.0 58.072.5 72.5 Machakos 20 Kericho 58.0 72.5 72.5 58.0 Mombasa 21 Machakos 55.0 68.8 68.8 55.0 Nandi 22 Mombasa 54.0 54.0 67.5 67.5 Tana River 23 Nandi 51.0 51.0 63.8 63.8 Wajir 24 Tana River 50.0 50.0 62.5 62.5 Mandera 25 Wajir 50.0 50.0 62.5 62.5 Kakamega 26 Mandera 50.0 50.0 62.5 62.5 Turkana 27 Kakamega 50.0 50.0 62.5 62.5 Murang'a 28 Turkana 49.0 49.0 61.3 61.3 Kwale 29 Murang'a 48.0 48.060.0 60.0 Baringo 30 Kwale 47.0 47.0 58.8 58.8 Nvandarua 31 45.0 45.0 56.3 56.3 Baringo Kisii 53.8 32 Nyandarua 43.0 43.0 53.8 Nyamira 33 37.0 Kisii 37.0 46.3 46.3 Kajiado 34 37.0 37.0 46.3 Nyamira 46.3 Kirinyaga 35 35.0 35.0 Kajiado 43.8 43.8 Siaya 36 Kirinyaga 34.0 34.0 42.5 42.5 Narok 37 Siaya 34.0 34.0 42.5 42.5 Makueni 41.3 38 Narok 33.0 33.0 41.3 Kitui 39 Makueni 31.0 31.0 38.8 38.8 Samburu 40 29.0 29.0 36.3 36.3 Kitui Marsabit 41 Samburu 25.0 25.0 31.3 31.3 Elgeyo-Marakwet 42 Marsabit 22.0 22.0 27.5 27.5 West Pokot 43 Elgeyo-Marakwet 21.0 21.0 26.3 26.3 Homa Bay 44 West Pokot 20.0 20.0 25.0 25.0Migori 45 Homa Bay 20.0 20.0 25.0 25.0 Vihiga 46 Migori 18.0 18.0 22.5 22.5 47 Vihiga 16.0 16.0 20.0 20.0(Reference: Ministry of Water and Irrigation, 2016)

Measures % of population having access to safe drinking water and therefore not at health risk from

SOER Drivers, Pressures, Status, Impact and Response (DPSIR)

County EPI Fact Sheet 4. Access to Safe Drinking Water

Drivers:	Population growth is exceeding the investment in safe water supply.
Pressure:	Increased microbial pathogens, leads to waterborne disease from contaminated water.
State:	Ranks 18 with $\leq 76\%$ of population having access to safe drinking water.
Impact:	Increased cases of morbidity and mortality from waterborne diseases.
Response:	County to increase resources to invest in improved water supply infrastructure.



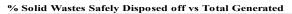
County EPI Fact Sheet 5. Access to Improved Sanitation

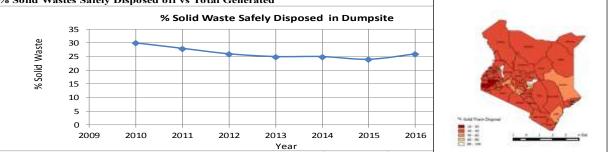
SOER Drivers, Pressures, Status, Impact and Response (DPSIR)

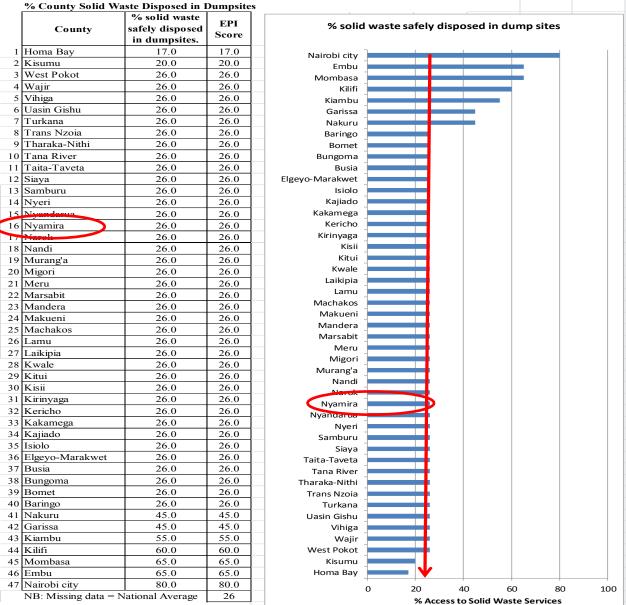
Drivers:	Population growth exceeding investment in improved sanitation services.
Pressures:	Increase in microbial pathogens and related diseases due to contaminated water.
State:	County ranks 23, only 39% of population have access to improved sanitation.
Impact:	Increased cases of waterborne diseases, leads to morbidity and mortality.
Response:	County to increase resource allocation to expand improved sanitation infrastructure.

County EPI Fact Sheet 6. Access to Solid Waste Services

Measures % of total solid wastes generated that is collected and disposed of in designated dumpsites.







(Reference: NEMA (2015)

SOER Drivers, Pressures, Status, Impact and Response (DPSIR)

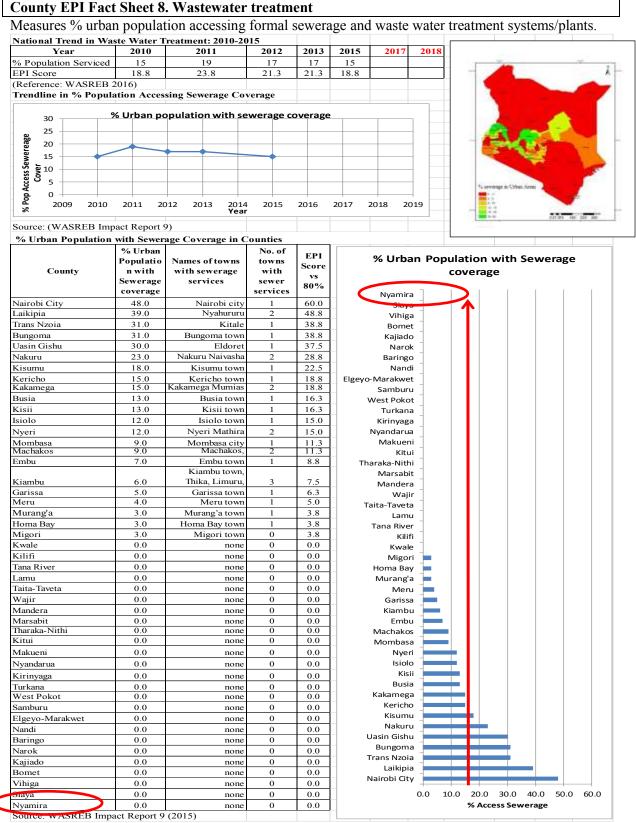
Drivers:Urbanization & population growth exceed capacity in solid waste management.Pressures:Increase in pathogen and toxin related diseases due to contaminated air and water.State:County follows national trend, average <26% collected, shows a gradual decline.</th>Impact:Proliferation of disease and water degradation from leachates and GHG emissions.Response:Increase resource allocation, expand improved waste management infrastructure.

		WSI Pro	iecti	ons														
30000.0		VV31110	jecu	0113			- 9000	0.0%										
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20000.0	_	•	•				6000	0.0%				YP	\$ 57	12				
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15000.0		<u> </u>				_	_	0.0% NSI				ASA	統して	10				
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10000.0	/ •			Der	mand (N	//CM/Yr)						- Co	Date:	3TO				
5000.0					ply (MC	CM/Yr)	- 2000					Anter Trans Index Der Canter		15				
	•			ws	I (%)		- 1000					821		5/				
0.0 + 2000	2010	2020 203	30	2040	205	50 2	∓+ 0.0% 2060	6				a.t.		148 895 340				
ce(NWMP 2030)											1911			a - 20 20			
by Catchment		n by County		_														
Catchment	Area	Counties		ter Dem MCM/yı			lable W ces (MC		WSI	EPI	PTT			<u> </u>				
- accountine	(km ²)	Country	2010	2030	<i>.</i>	2010	2030	2016		Score	>40		WSI By	County				
đ		Trans Nzoia Bungoma								345.46	100.00	Mombasa	<u>}</u>					
T Nor T CA)		Bungoma Uasin Gishu								345.46 345.46	100.00 100.00	Kwale Taita-Taveta						
Lake Victoria North Catchment Area(LVNCA)	18,374	Kakamega	228	1337	561	4742	5077	4843	11.58%	345.46	100.00	Kilifi						
Vic Catc rea(I	10,574	10,571		18,574	Busia Nandi	- 220		201	., .2	2077	4843		345.46 345.46		Makueni			
Lake		Siaya								345.46	100.00	Nairobi city Kajiado						
		Vihiga								345.46	100.00	Machakos						
년 _		Kericho Kisumu	-							182.25 182.25	100.00 100.00	Kiambu Lamu						
Lake Victoria South Catchment Area (LVSCA)		Homa Bay	385							182.25	100.00	Murang'a						
storia SC/	51,734	Bonnet		2953	1155	4976	5937	5264	21.95%	182.25	100.00	Embu	-					
e Vic Itchn (LV		Nyamira								182.25 182.25	100.00 100.00	Kirinyaga Kitui	-					
Cake		Kisii								182.25	100.00	Tana River						
		Migori								182.25	100.00	Nyeri Tharaka-Nithi	-					
ey Area		Turkana West Pokot	-				9 3147	2735		156.73 156.73	100.00 100.00	Garissa	-					
Rift Valley Catchment Area (RVCA)	130,452	Baringo	357	1494	698	2559			25.52%	156.73	100.00	Meru Laikipia	-					
Rift (RV	150,102	Elgeyo-Maral		1.01		2007		2/00		156.73 156.73	100.00 100.00	Isiolo						
Cat		Nakuru Nyandarua	-							156.73	100.00	Samburu	-					
a th		Marsabit								98.62	98.62	Wajir Mandera	-					
o No : Are A)		Mandera Wajir	-							98.62 98.62	98.62 98.62	Marsabit						
Ewaso Ng'iro North Catchment Area (ENNCA)	210,226	Samburu	212	2857	1006	2251	3011	2479	40.56%	98.62	98.62	Nyandarua Nakuru	-					
aso] atch (E)		Isiolo Lailinia	-							98.62 98.62	98.62 98.62	Elgeyo-Marakwet						
Ew		Laikipia Meru								98.62	98.62	Baringo West Pokot	-					
		Garissa								89.43	89.43	Turkana						
ŧ.		Tharaka-Nith Nyeri	1							89.43 89.43	89.43 89.43	Migori Kisii						
ına Catchmen Area (TCA)		Tana River								89.43	89.43	NISI						
Catc 2a (T	126,026	Kitui	891	8241	3096	6533	7828	6922	44.73%	89.43	89.43	Nyamira						
Tana Catchment Area (TCA)		Kirinyaga Embu								89.43 89.43	89.43 89.43	Homa Bay	-					
Г		Embu Murang'a								89.43	89.43 89.43	Kisumu						
		Lamu	1							89.43	89.43	Kericho Vihiga						
		Kiambu Machakos								28.33 28.33	28.33 28.33	Siaya						
ent ()		Kajiado								28.33	28.33	Nandi						
Athi Catchment Area (ACA)		Nairobi city	1							28.33	28.33	Busia Kakamega						
i Cat rea (58,639	Makueni Kilifi	1,145	4586	2177	1503	1634	1542	141.17%	28.33 28.33	28.33 28.33	Uasin Gishu	1					
Ath A		Taita-Taveta								28.33	28.33	Bungoma Trans Nzoia						
		Kwale]							28.33	28.33		0.0 20.0	40.0 60.0	80.0 100.			
	1	Mombasa								28.33	28.33			40.0 60.0				

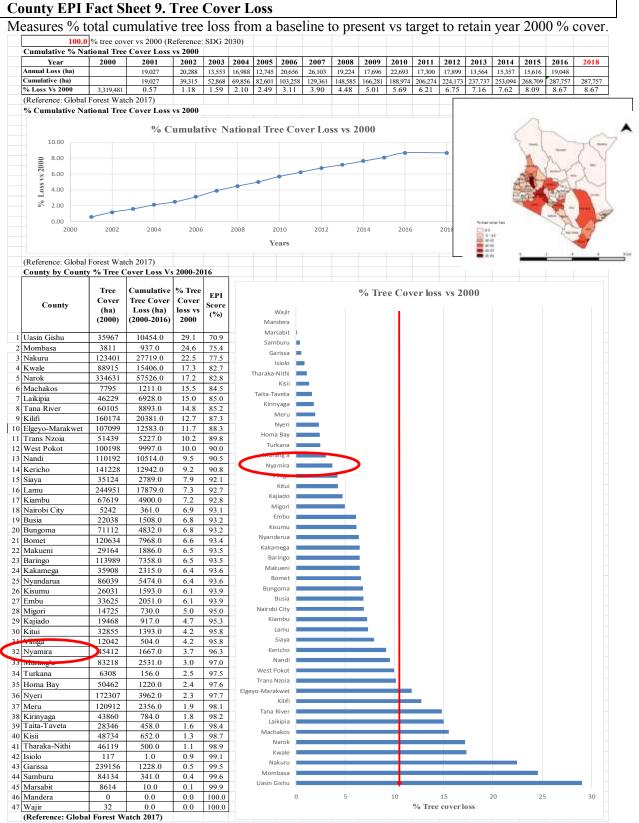
County EPI Fact Sheet 7. Water Stress Index

SOER Drivers, Pressures, Status, Impact and Response (DPSIR)

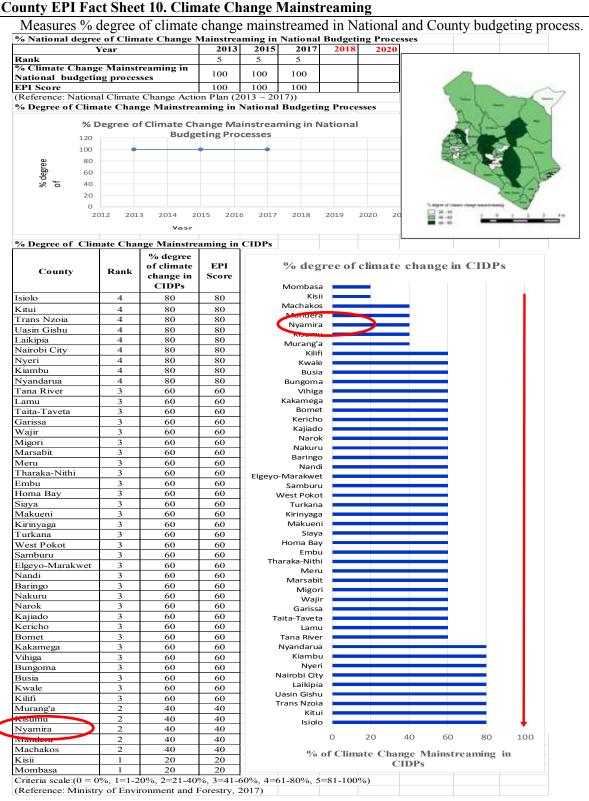
Drivers:High population growth demands water for domestic, industrial and agricultural use.Pressures:Water scarcity implies vulnerability that water demand may exceed ability to renewal.State:Water supply exceeds demand by >100%, County is in top 5% of no water stress.Impact:Adequate levels of available water for human, agriculture, livestock and wildlife use.Response:Investment needed in integrated water management and water storage infrastructure.



Drivers:High population growth exceeds County capacity & investment in sewerage services.Pressures:Unregulated sewage and waste water disposal contaminates waterways a disease risk.State:County is in bottom list with 0% sewage plant capacity for treating of wastewater.Impact:Raw sewerage & effluents contaminate water ways, increasing water borne diseases.Response:County to allocate more resources for infrastructure for wastewater treatment system.



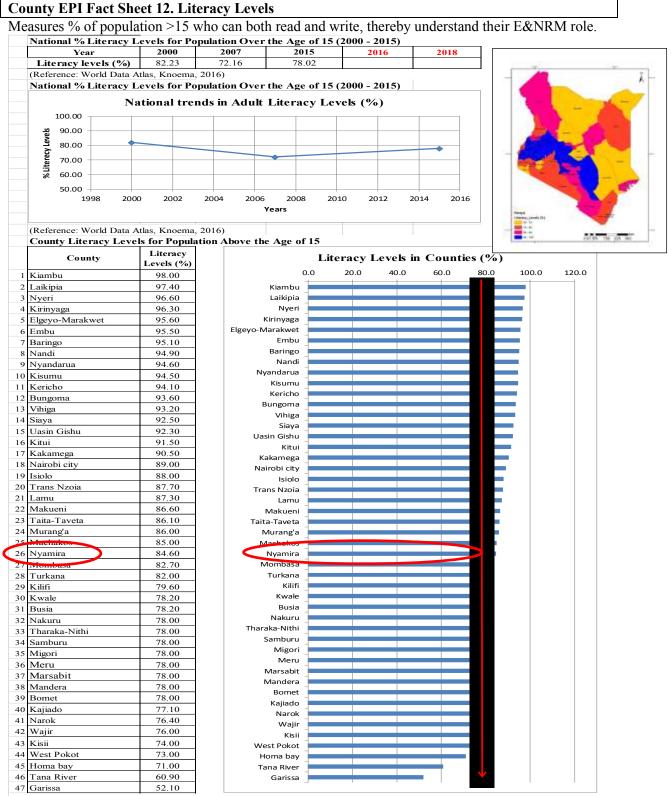
Drivers:	Population growth and poverty increases demand for economic fuelwood and land.
Pressures:	Deforestation due to agriculture expansion, illegal logging, charcoal burning, etc.
State:	National 8% tree cover lost vs 2000, County is low <4% loss, ranks 32.
Impact:	Degradation of forest eco-services such as fuelwood, wildlife, water towers, etc.
Response:	Investment in land and forest management, tree planting & enforcement of laws.



Drivers:Anthropogenic increase in greenhouse gas (GHG) emissions is altering climate.Pressure:Climate change adversely affecting weather patterns, changing water cycle patterns.State:National mainstreaming climate change is 100%, but CIDP budget is at low 40%.Impact:Changing weather patterns, droughts, floods and lake level, affect power generation.Response:Allocate more resources for climate change resilience, mitigation and adaptation, ie renewable energy, climate smart agriculture, rehabilitate forests, water storage, et c.

			· · ·	•	ite to 1:10	,000 p	opulation as an ideal ratio for E&NI
ľ	Growth in Nationa	· ·		1			
t	2500 —	Growth in Num	ber of licens	ed EIA expe	erts		- X-
+							
+	Yes 2000 Base 1500 Base 1000 Base 500						
t	ຍິ 1500 –						
t	بو 1000 ـــــ						
	o soo						
	- 500						
+	0 +						
+	2013	2014	2015 20 Year	16 2017	2018	2019	Remark and a second second
١,	(Reference: NEMA,	2018. KNBS (20					
	% of Licensed EIA) population 2	2016		
ſ		No. of	n	% Licensed	Target	EDI	
I	County	Licensed EIA experts	Population (2016)	EIA Experts/	Number of Licensed	EPI Score	% Experts vs Target
l		(2016)		10,000 Pop	EIA Experts		
	Nairobi city Mombasa	960	4,463,149 1,184,988	215.1 54.9	446 118	100.0 54.9	Tana River Mandera
н	Kiambu	100	1,184,988	53.5	118	53.5	Turkana
ľ	Kajiado	40	870,721	45.9	87	45.9	Samburu
H	Nakuru	77	2,031,247	37.9	203	37.9	Busia West Pokot
H	Kisumu Embu	42	1,132,264 559,766	37.1 33.9	113 56	37.1 33.9	Marsabit
H	Uasin Gishu	33	1,132,603	29.1	113	29.1	Kwale
	Nyeri	23	798,428	28.8	80	28.8	Lamu Vihiga
н	Machakos Isiolo	33	1,191,325 155,465	27.7 25.7	119 16	27.7 25.7	Narok
н	Elgeyo-Marakwet	12	468,835	25.6	47	25.6	Bomet
н	Tharaka-Nithi	9	396,115	22.7	40	22.7	Nandi
	Kisii Kericho	28	1,346,547 944,576	20.8	135 94	20.8	Kakamega
H	Baringo	19	703,697	19.9	70	19.9	Nyandarua Bungoma
I	Laikipia	10	505,712	19.8	51	19.8	Nyamira
н	Taita-Taveta Homa Bay	7 22	358,173 1,126,270	19.5 19.5	36	19.5 19.5	Kirinyaga Wajir
	Meru	22	1,126,270	19.5	113	19.5	Murang'a
Ŀ	Garissa	11	623,060	17.7	62	17.7	Kitui
н	Makueni Trana Nacio	16	959,022	16.7	96	16.7	Kilifi Siaya
H	Trans Nzoia Siaya	17	1,037,455 984,251	16.4 16.3	104 98	16.4 16.3	Trans Nzoia
Ľ	Kilifi	22	1,399,975	15.7	140	15.7	Makueni
H	Kitui	17	1,097,687	15.5	110	15.5	Garissa
	Murang'a Wajir	15	1,084,871 661,941	13.8 13.6	108 66	13.8 13.6	Homa Bay
ł	Kirinyaga	8	607,881	13.0	61	13.2	Taita-Taveta Laikipia
t	Nyamira	9	699,113	12.9	70	12.9	Baringo
H	Dungoma Nyandarua	19	1,553,434 686,379	12.2	155 69	12.2 11.7	Kericho
÷	Kakamega	20	1,875,531	10.7	188	10.7	Tharaka-Nithi
ľ	Nandi	10	953,978	10.5	95	10.5	Elgeyo
H	Bomet	9	916,175	9.8	92	9.8	Isiolo
F	Migori Narok	9	1,071,803 1,077,719	8.4 8.4	107 108	8.4 8.4	Nyeri
H	Vihiga	5	626,707	8.0	63	8.0	Uasin Gishu
	Lamu	1	128,144	7.8	13	7.8	Embu
E	Kwale Marsabit	6	820,199 315,936	7.3 6.3	82 32	7.3 6.3	Kisumu Nakuru
H	West Pokot	4	649,418	6.2	65	6.2	Kajiado
ŀ	Busia	5	840,251	6.0	84	6.0	Kiambu
E	Samburu	1	283,780	3.5	28	3.5	Mombasa Nairobi city
	Turkana Mandera	3	855,399 1,025,756	3.5 2.9	86 103	3.5 2.9	- 20.0 40.0 60.0 80.0 1
H	Tana River	0	303,077	2.9		0.0	% Experts vs 1/10000

Drivers:Population and economic growth, place greater demand on limited expertise capacity.Pressure:Limited skilled experts means improper EIA, low capacity for audits & enforcement.State:County is ranked 30, with a low of 13% of the E&NRM expertise required.Impact:Inadequate E&NRM compliance, insufficient promotion of green & blue technology.Response:County to invest more in capacity building and hiring of environmental experts.



(Reference: Knoema, 2016)

SOER Drivers, Pressures, Status, Impact and Response (DPSIR)

Drivers:Population growth exceeds education system capacity to teach literacy and E&NRM.Pressure:Poor literacy is correlated with poor understanding of E&NRM & sustainable use.State:County at adult literacy is in above average at 85%, above national average of 78%.Impact:Poor E&NRM awareness, increases incidences of bad environment related behaviour.Response:Continued County investment in literacy and E&NRM education in the curriculum.

County EPI Fact Sheet 13. Expenditure on E&NRM Measures % of E&NRM expenditure vs County total as % of E&NR worth vs GDP baseline of 35%.

	% Contribution of E&NRM	Sectors to GDP	as National Ta	arget:			
	Sector	2013	2014	2015	2016	2017	
	Agriculture, Forestry & Fishing	26.4	27.5	30.2	32.1	31.5	
	Mining and Quarrying	0.9	0.8	0.9	0.8	0.8	
	Electricity Supply (renewable)	1.1	1	1.4	1.8	1.8	
	Water supply; Sewerage, Waste		0.8	0.7	0.7	0.7	A second s
	Total Contribution	29.3	30.1	33.2	35.4	34.8	
	(Reference: Economic Survey I		EV 2016/17	17. L			
	Expenditure by MDAs in E&	NRM Sectors fo	Net	Kshs. Millions)		
	Ministry/ State Depa	rtment	Expenditure				
	Water Services		29,889.30				the second se
	Irrigation		6,372.60				
	Environment		1,663.20				
	Natural Resources (Forestry)		1,546.10				
	Agriculture		9,442.10				St. of County Repeatibles in
	Livestock		1,808.90				EXAMPLY to the total
	Fisheries & Blue Economy Mining		1,570.70 1,310.10				equitare
	Tourism (& wildlife)		3,375.50				26-20
	Total E&NRM Sectors:		56,978.50				40-40
	Total Net Expenditure in All	Sectors	557,166.00				60-60
	% Expenditure in E&NRM V		10.23				
	EPI Score		29.39				
	Source: Office of the Controller	of Budget, Ann	ual National Go	vernments Budg	get Implei	mentation Re	eview Report (2017)
	Expenditure by County E&N	DM Sectors for-	EV 2016/17 (P	ehe Millione)			
	Expenditure by County E&N	1	,	,			
		Total	Expenditure	% of County	EDI		
	County	Expenditure in all sectors	on E&NRM Sectors	Expenditure	EPI Score	PTT	% of County Expenditure on E&NRM vs Total
		(Kshs. Mill)	(Kshs. Mill)	on E&NRM vs the total	Score		Expenditure in all Sectors
1	Mombasa	9133.57	260.76	2.85	8.20	8.20	Nyeri
2		3718.67	156.44	4.21	12.09	12.09	Lamu
	Laikipia	4710.66	274.8	5.83	16.76	16.76	Kitui
4		3385.05	226.09	6.68	19.19	19.19	Tana River
5	Kakamega	10845.12	836.98	7.72	22.18	22.18	Nandi
6		7985.61	684.2	8.57	24.62	24.62	Busia West Pokot
	Kisumu	6837.85	664.55	9.72	27.93	27.93	Garissa
	Embu	5669.24	580.58	10.24	29.43	29.43	Migori
	Kiambu	10811.57	1199.05	11.09	31.87	31.87	Narok
	Kericho Nairobi city	5600.72 24858.64	636.29 2905.8	11.36 11.69	32.65 33.59	32.65 33.59	Murang'a
	Tharaka-Nithi	2773.85	329.75	11.89	34.16	34.16	Mandera
	Machakos	9148.77	1088.67	11.90	34.19	34.19	Makueni
	Trans Nzoia	6004.44	717.05	11.94	34.32	34.32	Wajir Uasin Gishu
	Homa bay	5737.16	693.44	12.09	34.73	34.73	Isiolo
6	Siaya	5630.16	688.13	12.22	35.12	35.12	Marsabit Marsabit
7	Nakuru	10663.22	1322.47	12.40	35.64	35.64	Baringo
	Nyandarua	4963.02	627.7	12.65	36.34	36.34	Elgeyo-Marakwet
	Bomet	5303.97	685.97	12.93	37.16	37.16	Kilifi
	Samouru Nyamira	4167.1	539.47	12.95	37.20	37.20	Meru Kwale
	Nyamira Kirinyaga	4501.6 4246.58	603.52 576.04	13.41 13.56	38.53 38.98	38.53 38.98	Kajiado
	Bungoma	7992.16	1123.15	14.05	40.38	40.38	Bungoma
	Kajiado	5061.92	732.62	14.05	41.59	41.59	Minnyaga
	Kwale	5860.64	888.81	15.17	43.58	43.58	Nyamira
	Meru	8344.02	1360.52	16.31	46.85	46.85	Samon
	Kilifi	10184.21	1712.5	16.82	48.32	48.32	Nyandarua
	Elgeyo-Marakwet	3964.68	703.58	17.75	50.99	50.99	Nakuru
	Baringo	5214.39	929.98	17.83	51.25	51.25	Siaya
	Marsabit Isiolo	6141.49 3493.1	1167.11 668.47	19.00 19.14	54.61 54.99	54.61 54.99	Homa bay
	Uasin Gishu	5594.57	1078.42	19.14	55.39	55.39	Trans Nzoia
	Wajir	8242.89	1936.95	23.50	67.52	67.52	Machakos Tharaka-Nithi
	Makueni	8922.51	2255.64	25.28	72.64	72.64	Tharaka-Nithi Nairobi city
5	Mandera	10196.94	2704.9	26.53	76.23	76.23	Kericho
	Murang'a	6432	1832.29	28.49	81.86	81.86	Kiambu
	Narok	7473.71	2231.75	29.86	85.81	85.81	Embu
8	Migori	5816.62	1892.14	32.53	93.48	93.48	Kisumu
	Garissa Wast Bakat	7123.5	2649.5	37.19	106.88	100.00	Kisii Kakamera
9	West Pokot Busia	4804.09 5881.4	1850.73 2279.4	38.52 38.76	110.70 111.37	100.00	Kakamega Taita-Taveta
9 0		5364.9	2128.18	38.76	111.37	100.00	Laikipia
9 0 1			2120.10		113.99	100.00	Vihiga
9 0 1 2	Nandi		1408 18	39.71			
9 0 1 2 3	Nandi Tana River	3546.37	1408.18 3339.41	39.71 40.16			Mombasa 💻
9 0 1 2 3 4	Nandi		1408.18 3339.41 840.83	40.16 42.18	114.10 115.41 121.20	100.00 100.00	
9 0 1 2 3 4 5	Nandi Tana River Kitui	3546.37 8314.6	3339.41	40.16	115.41	100.00	Mombasa 💻

SOER Drivers, Pressures, Status, Impact and Respons (DPSIR)

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If E&NRM budget does not match GDP County cannot sustain a green/blue economy
Low County expenditure means poor enforcement and unsustainable E&NR use.
E&NRM expenditure of total CIDP is 38.5%, but should match equivalent 40% GDP.
Low investment leads to poor E&NRM brings a brown growth trajectory.
Increase E&NRM allocations in CIDP to match E&NR sector economic contribution.

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