

Lake Chilwa Basin, Southern Malawi

Integrated Development in a fragile ecosystem



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Population Action
INTERNATIONAL
HEALTHY FAMILIES HEALTHY PLANET

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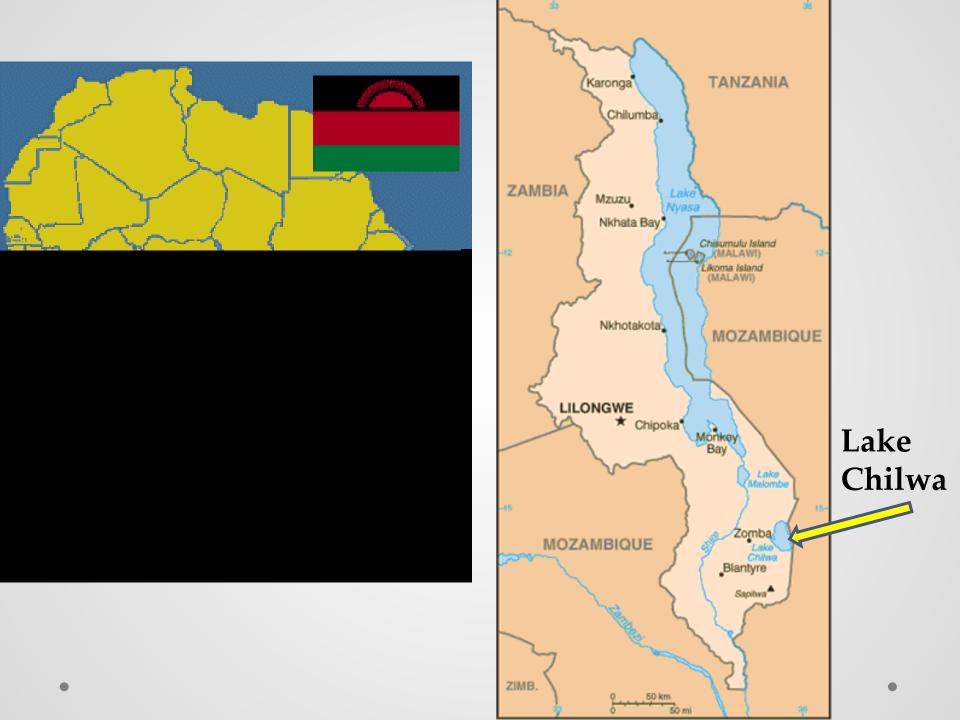
Presented at "From Victoria to Chilwa: Integrated Development in Two African Lake Basins", February 10, 2014, Woodrow Wilson International Center for Scholars, Washington DC., and

Congressional briefing on "Population Health and Environment: 10 Years and Counting", February 12, 2014, Capitol Hill, Washington DC.

Malawi Country Profile

- Total population (2010): 15.7 million
- Population trebled in past 40 years
- Lake Malawi
- Proportion of total population dependent on agriculture for a livelihood: 85 percent
- Proportion living below poverty datum line: 6.3 million

Source: Synthesized from ActionAID (2006), National Statistical Office (2010), UNEP (2010), Yaron et al. (2010), and FAO (2011).









Challenges

- Deforestation
- Climate Variability, Extreme weather events
- Periodic drying of Lake
- Use of marginal lands for agriculture
- Population growth
- High migration into the basin- pressure on NR
- Heavy dependence on natural resources
- River bank cultivation
- Sand mining/charcoal making
- Low economic activities
- Water quality and quantity







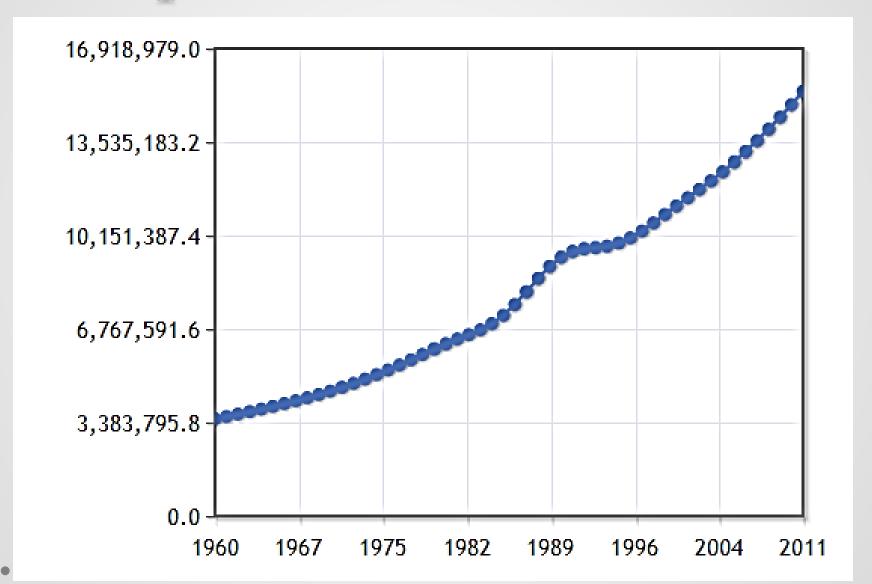
Mulunguzi River Uphill

Likangala River Downhill



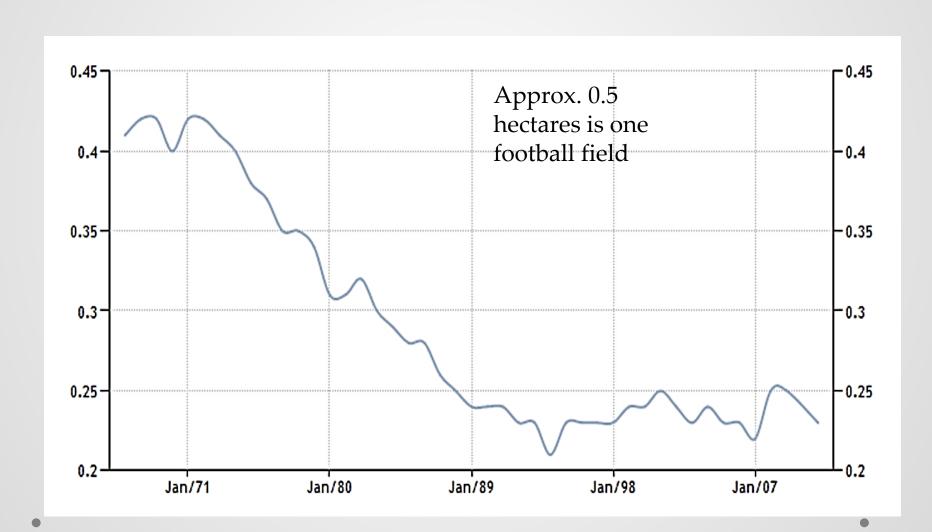


Population of Malawi

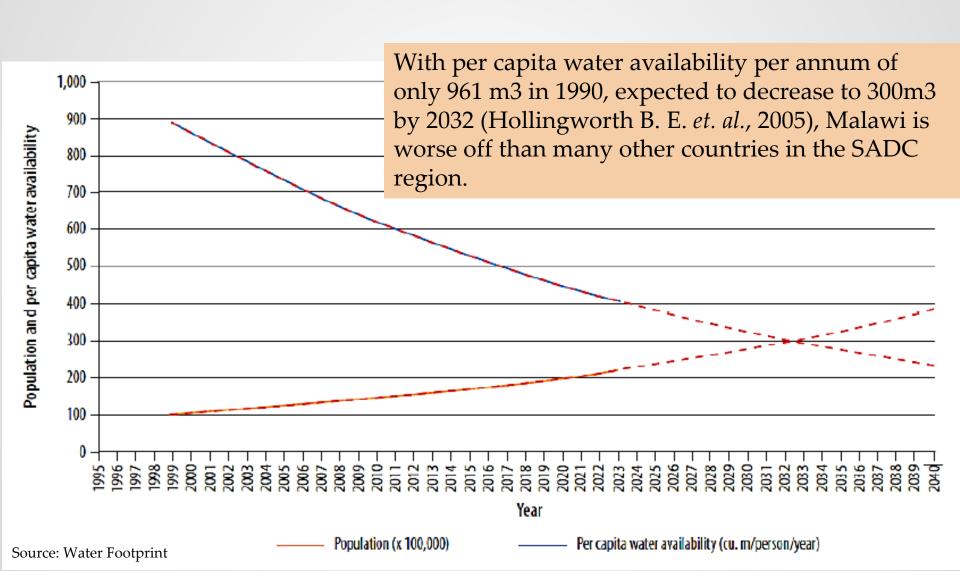


Arable land per capita 1967-2014

Source: World Bank Indicators (2014)

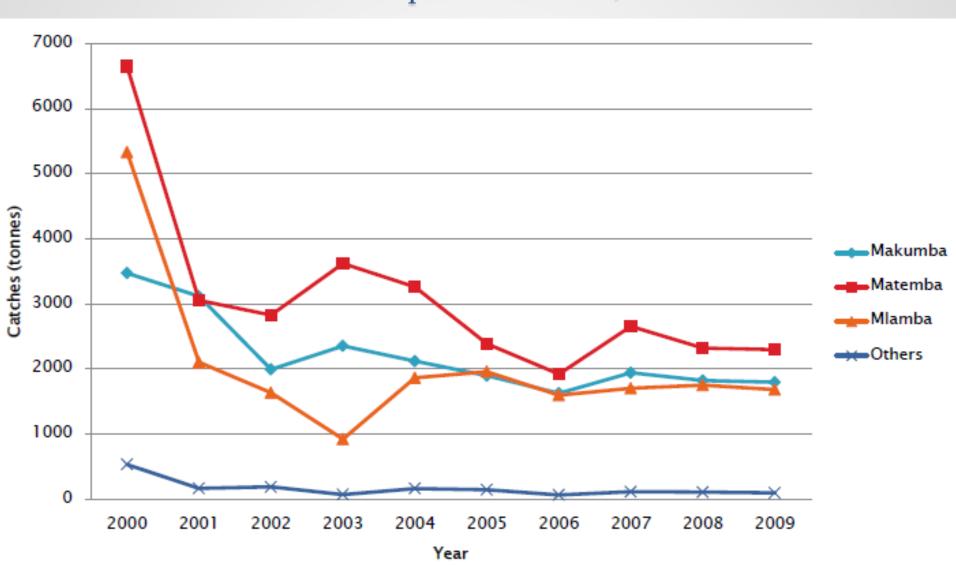


Population and Per Capita water projections for Malawi (1999-2040)

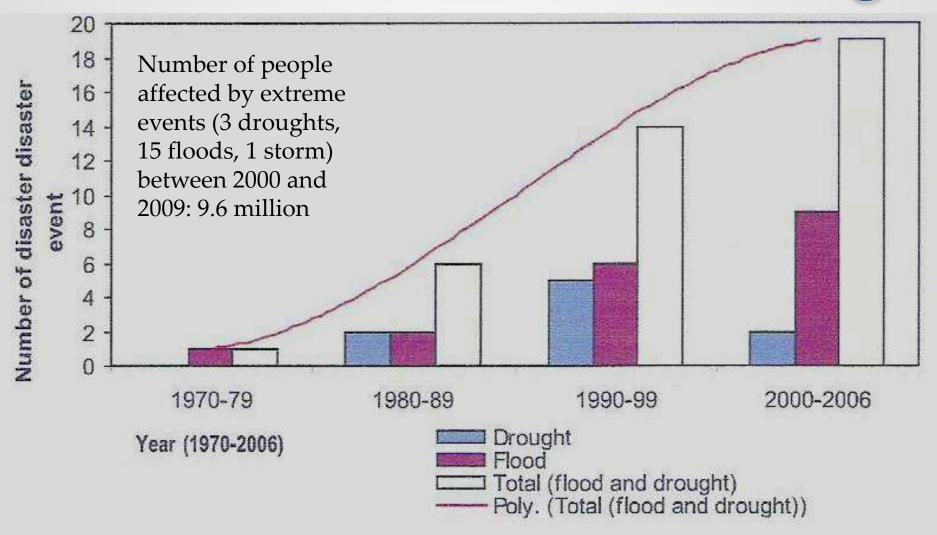


Lake Chilwa Fish Species Catches (2000-2009)

Source: Dept. of Fisheries, 2010



Extreme events increasing





Some human habitats in Lake Chilwa make people vulnerable to diseases (Zimbowela)



Lake Chilwa Basin Climate Change Adaptation Programme (2010-2014)







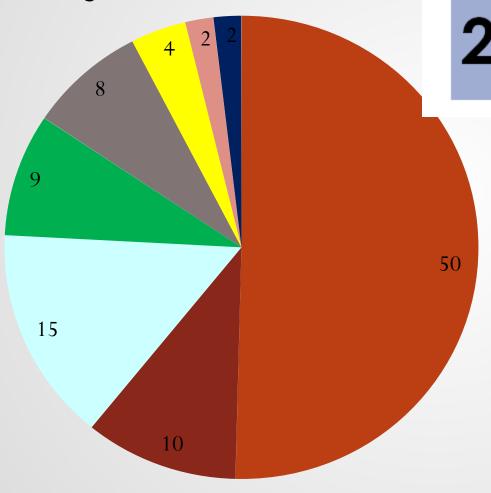
Bilharzia







How to enhance women's adaptive capacity to climate change?



Nationally, unmet need for Family Planning was

27%

(AFIDEP-PAI Brief, 2012)

- Improve maternal health
- reduce child mortality
- Dont know/ No response
- Promote gender equality
- Reduce women vulnerability to HIV
- Provide means of transportation

Environmental Shock: Lake Chilwa partially dried 2012



Cholera



Addressing Health Concerns

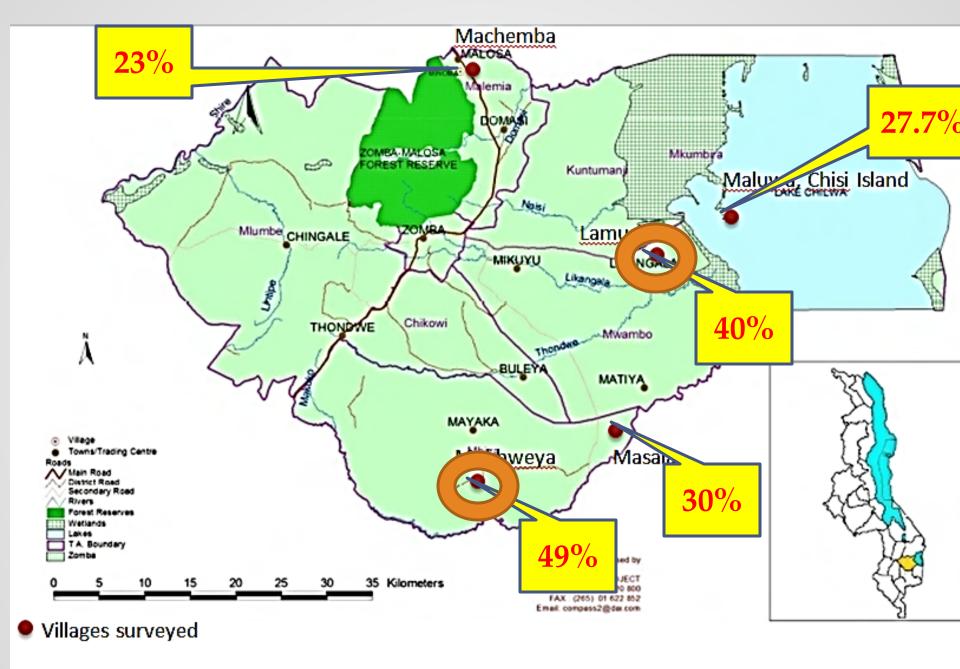
- Press release on Cholera outbreak, TV programme, news paper articles
- Subsequently help received by DHO
- Bilharzia ...??
 - Neglected tropical disease
 - o No recent studies
 - o Prevalence to be determined





Bilharzia prevalence study





Man of study area

Additional drugs were received from WHO and District Health Office is now including communities in the Mass Drug Administration which was previously only targeting primary schools

Alert me

Abstract

A large proportion of Malawi's more than 13 million people live in rural areas where major livelihood activities include subsistence farming, irrigation and fishing. Therefore the villagers have contact with water, which exposes them to schistosomes. In this case study, surveys and parasitological investigations were conducted to determine the prevalence of schistosomiasis and to explore the relationship between disease prevalence and selected qualitative variables in five villages located in Zomba District in Lake Chilwa Basin. The study revealed a high prevalence, ranging from 23% in Machemba village to 49% in Mukhweya village. Children, 6–15 years old.





- Linked communities with Family Planning Association of Malawi
- Population Ref Bureau "Engage" video shown
- Mobilizing LEAD Families to provide peer support

Policy and Programmes

- National Climate Change Policy of Malawi
- GEF proposal on climate proofing local development gains
- Plan to train journalists on PHE approach

15

Systems approach



Sectors versus Systems:

Fixing a part, missing the whole



Mutu umodzi susenza denga (it takes many hands to fix the roof)

