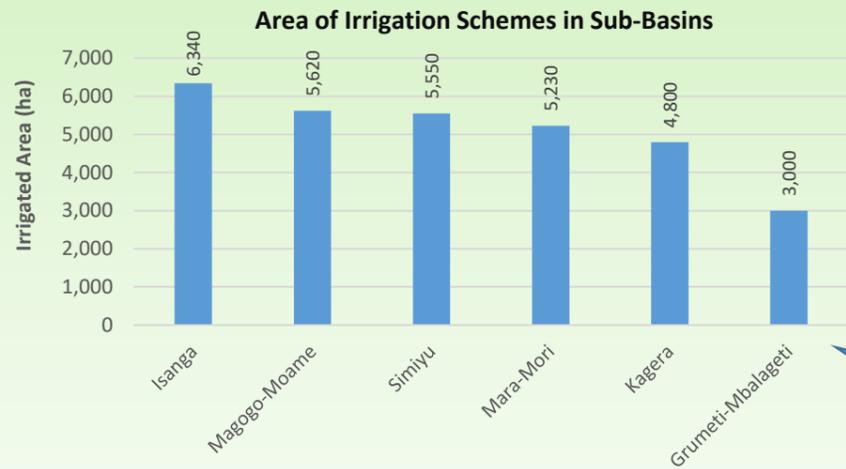
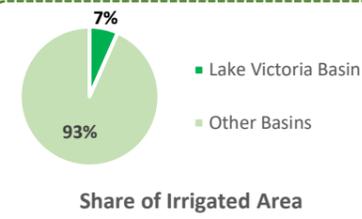


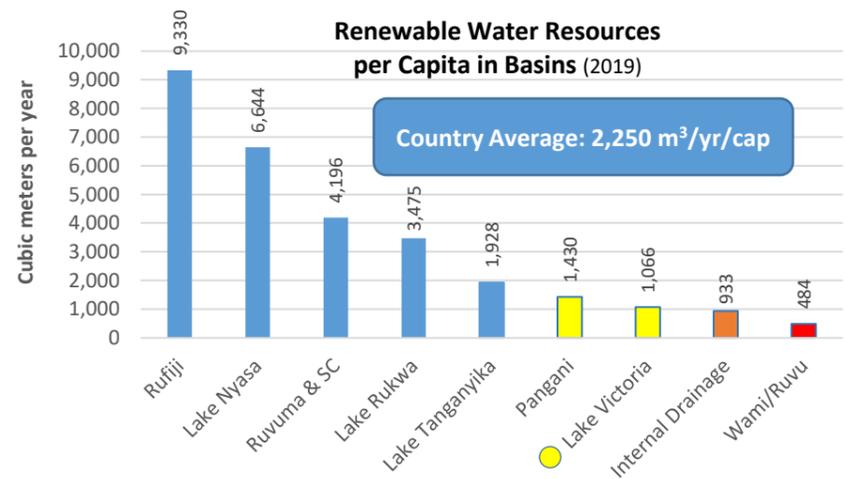
## Lake Victoria Basin Water Demands Key Figures



Tanzania's Total Irrigated Area: 460,300 ha



Lake Victoria Basin: 30,540 ha of farms irrigated; 4<sup>th</sup> Rank in Irrigated Area



### The Falkenmark Water Stress Indicator

Available Renewable Water per Capita (m³/yr)	Indication
< 1700	Water Stress
< 1000	Water Scarcity
< 500	Absolute Water Scarcity

Lake Victoria Basin is experiencing water stress



### Physiographic Profile

Land Area	119,700 km <sup>2</sup>
No. of Sub-basins	6
No. of Lakes	
Major Lakes	1
Other Lakes	5
Protected Areas	
No.	80
Area	30,844 Km <sup>2</sup>
Dominant Soil Texture	Sandy Loam
Dominant Productive Formation	Migmatite/Granitoides/Meta-Sediment Complexes
Mean Vegetation Index	0.24
Forest Cover Change (2000-2015)	-1.26 %/yr
Average Slope	3.7 %
Altimetry	
Highest	2,547 m.a.s.l.*
Lowest	951 m.a.s.l
Mean Elevation	1,279 m.a.s.l

\* m.a.s.l: meters above mean sea level

### Socio-Economic Profile (2019)

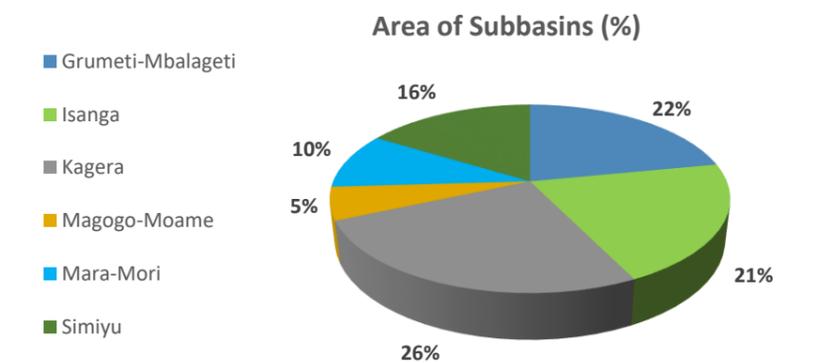
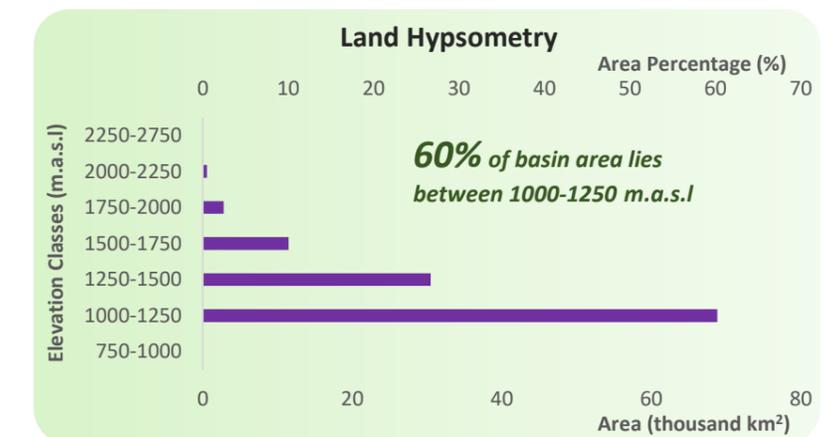
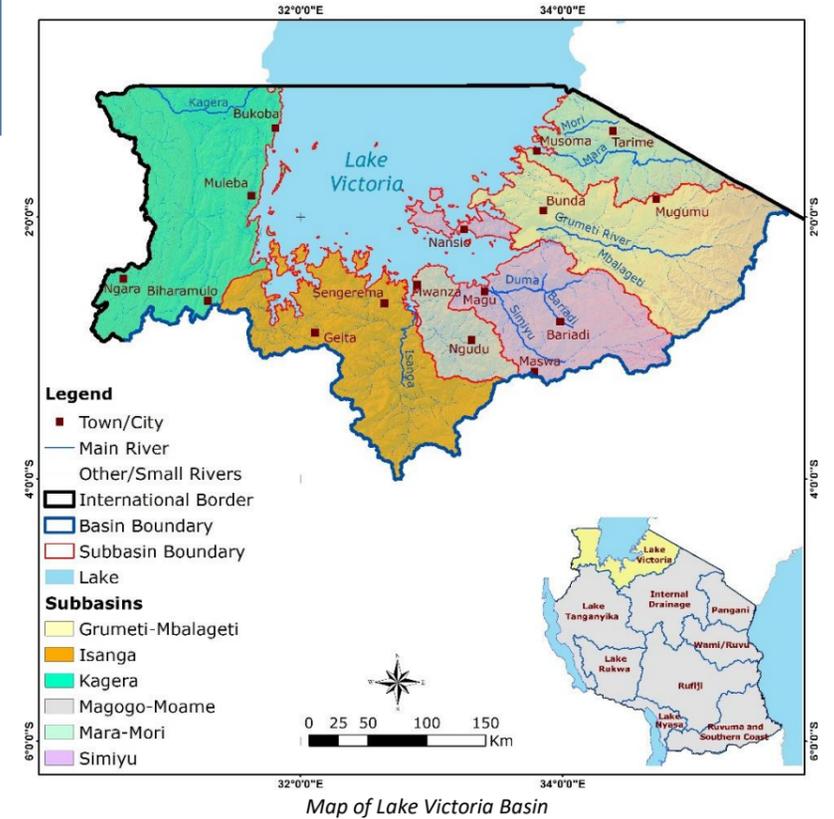
Population	12.2 million
Population Density	102 person/km <sup>2</sup>
Water per Capita	1,066 m <sup>3</sup> /yr

### Hydro-Climatic & Water Resources Profile\*

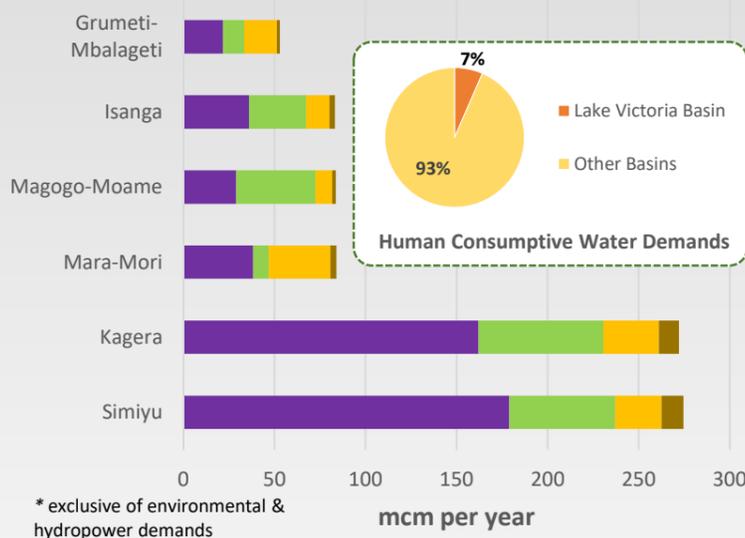
Average Precipitation	1,265 mm/yr
Average Temperature	20.5 °C
Average Evapotranspiration	
Potential	1,454 mm/yr
Actual	954 mm/yr
Average Renewable Water Resources	13,027 mcm/yr
Surface Water	11,700 mcm/yr
Groundwater	1,327 mcm/yr
Water Demands	
Averaged Total	5,251 mcm/yr
Human Consumptive	851 mcm/yr
Water Resources Vulnerability Index	6.5 %

\* According to Lake Victoria Basin IWRMDP, 2015

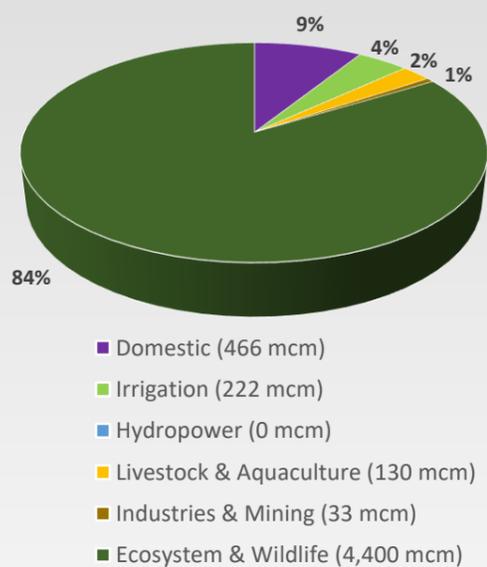
## Water Resources Fact Sheet Lake Victoria Basin



### Water Demands in Sub-Basins\* (human consumptive demands)



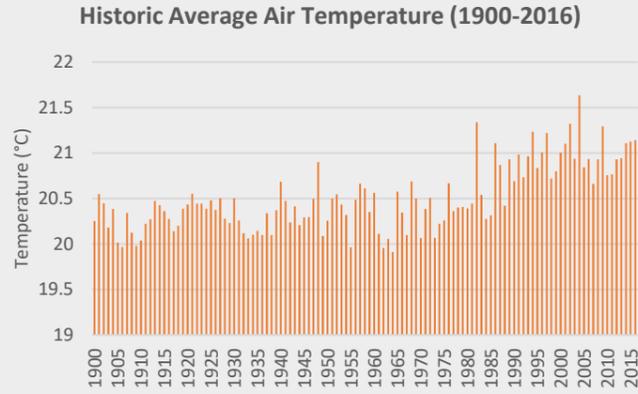
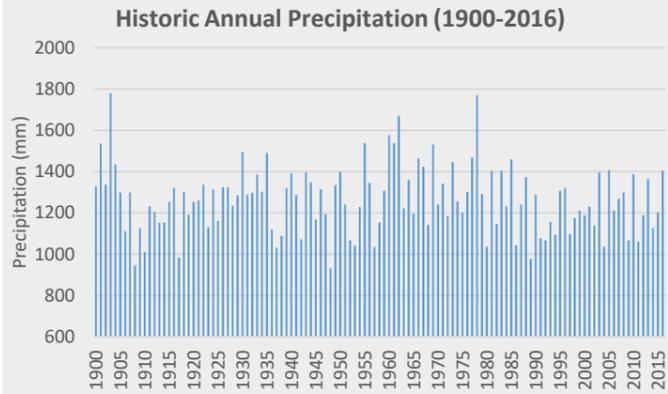
### Water Demands by Sector (%) Lake Victoria Basin



Ecosystem is the largest water user in Lake Victoria Basin. About 34% of the renewable water resources in the basin is required for replenishment of environmental demands, and only 6.5% is currently utilised for domestic, industries, irrigation, and livestock sectors. In the latter portion, domestic sector accounts for nearly 55% of human-consumptive uses, which makes it the second rank in water demand as a total. There is no hydropower plant in the basin at present.

Tanzania mainland is comprised of nine hydrologic basins. Lake Victoria Basin is the 4<sup>th</sup> largest basin that encompasses about 13% of the area of the country. The basin embraces Lake Victoria in the northernmost part of Tanzania, where it has borders with Kenya and Uganda. The three countries share the Lake, but the basin is extended into the territories of Rwanda and Burundi as well.

## Lake Victoria Basin Water Resources Key Figures



Averaged for Lake Victoria Basin; Source: Climatic Research Unit, University of East Anglia, UK; <http://www.cru.uea.ac.uk/data>

### Long Term Rainfall Variation

Rainfall Average 1900-1930	1263 mm
Rainfall Average 1985-2016	1215 mm
Difference in Long-term Average	- 48 mm

Difference in Rainfall\*: - 3.8%

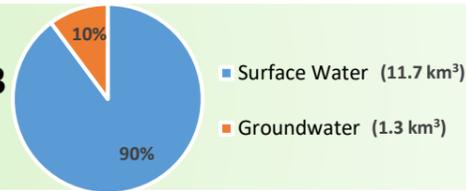
### Long Term Temperature Variation

Temperature Average 1900-1930	20.31 °C
Temperature Average 1985-2016	20.95 °C
Difference in Long-term Average	+ 0.64 °C

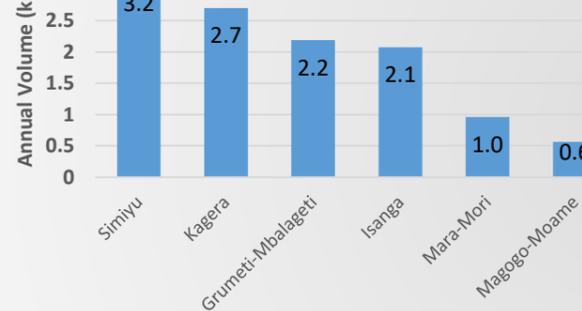
Difference in Temperature\*: + 3.1%

\* Over 85 Years (30-yr average values, centered on 1915-2000)

Annual Renewable Water Resources: **13.0 km<sup>3</sup>**  
(inside Tanzania borders)



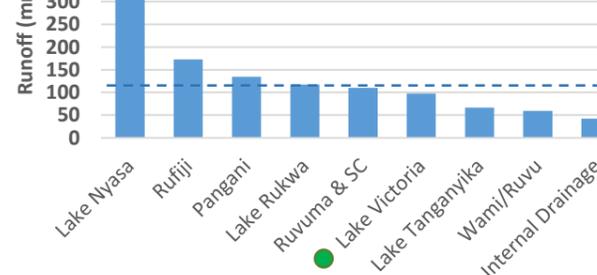
### Average Renewable Surface Water Resources in Sub-Basins



### Share of Lake Victoria Basin in Tanzania's Total Renewable Water Resources



### Average Surface Water Runoff in Basins



Average Country-wide Runoff: 111 mm  
**Runoff production in Lake Victoria Basin: 97.9 mm**

Lake Victoria Basin receives in average an annual precipitation of 151 km<sup>3</sup> out of which as much as 138 km<sup>3</sup> returns back to the atmosphere and 13 km<sup>3</sup> (about 8.6%) turns into surface and ground water as renewable freshwater resources.

## Lake Victoria Basin Water Infrastructure Key Figures

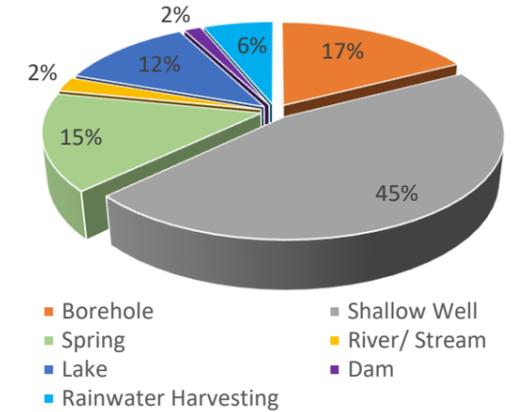


### Water Infrastructure Profile

<b>Water Points</b>	
No. of Water Points	17,090
No. of Taps	21,044
<b>No. of Monitoring Stations:</b>	
Weather	17
Rainfall	33
Hydrological	27
<b>No. of Dams and Reservoirs</b>	<b>154</b>
<b>Reservoirs Capacity</b>	<b>85.6 mcm</b>
<b>Irrigation Schemes</b>	
No.	234
Area	30,543 ha
<b>Irrigation Efficiency</b>	<b>30%</b>
<b>Main Crops (irrigated)</b>	<b>Maize, Legume, Sorghum, Cotton, Coffee, Banana, Sugarcane, Rice</b>

Functioning Water Taps: 12,863 **61%**

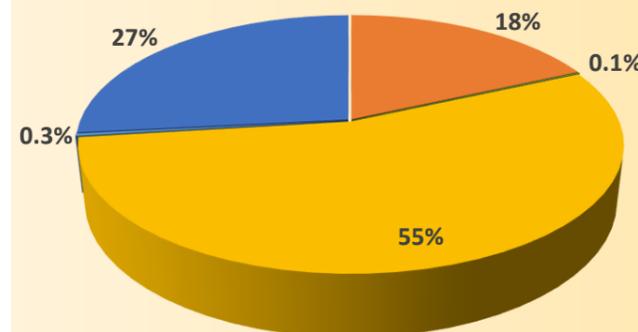
### Water Points by Sources of Water



Average Gross Area per Water Point: 7 km<sup>2</sup>

Water Points Supplied by Groundwater and Springs **78%**

### Extraction Technologies at Water Points

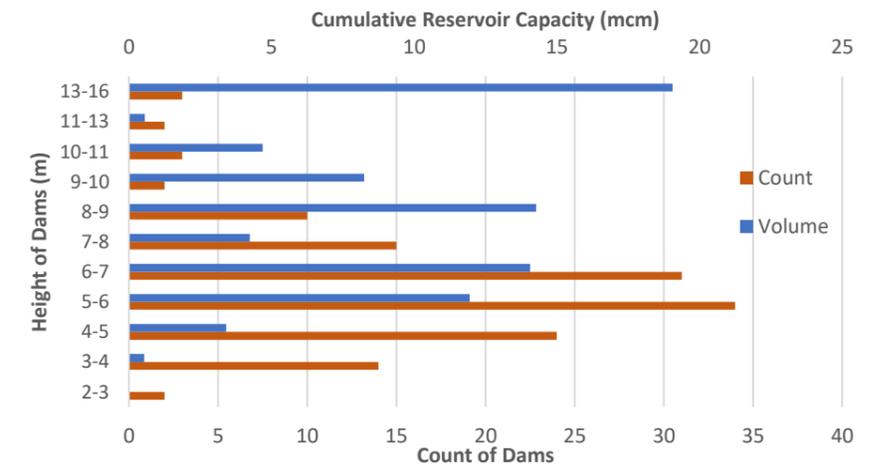


Water Points that Need Energy for Extraction of Water **75%**

- CED Pumps:** Conventional Energy-Driven Pumps (includes Thermal Electricity, Hydroelectricity, Gasoline & Diesel)
- NCD Pumps:** Non-Conventional Energy-Driven Pumps (includes Solar Electricity, Windmill)
- Hand Pumps:** (includes Lever Pumps, Mono Pumps, Rope Pumps, Play Pumps)

### Statistics of Dams in the Basin

There are 154 man-made dams constructed in Lake Victoria Basin with a total reservoir capacity of about 85.6 mcm. The largest reservoir belongs to Manchira Dam with a height of 16 m and capacity of 14 mcm in Serengeti District.



Water supply access in Tanzania – mainly in rural areas – is realised through "water points", i.e. usually a public place for people to obtain clean water. Water from water points is potable water consumed for the people or livestock. Means of access to water at the supply points are usually in form of communal standpipes. However, other shapes of access to water are present such as water kiosks, water tanks, hand pumps, developed or undeveloped springs, and cattle troughs.