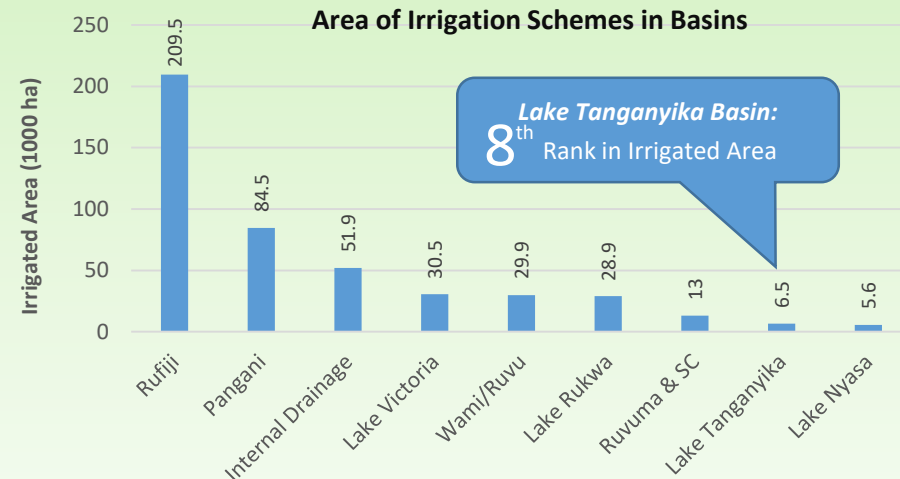
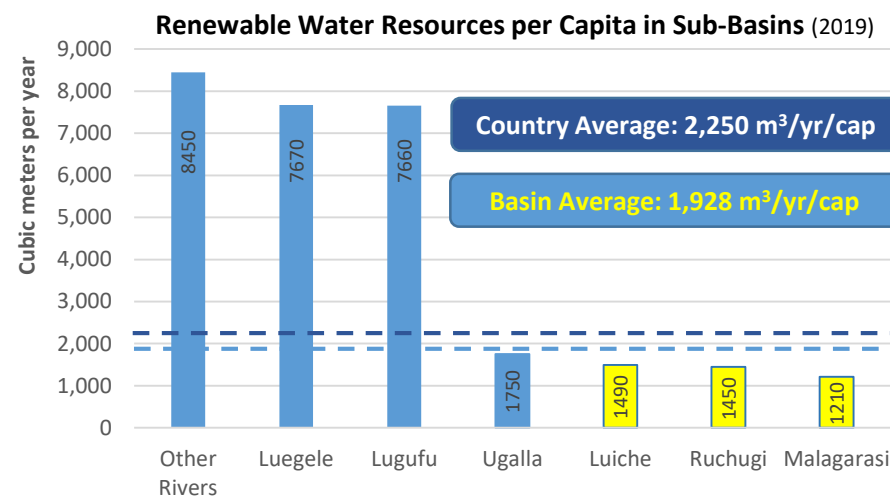
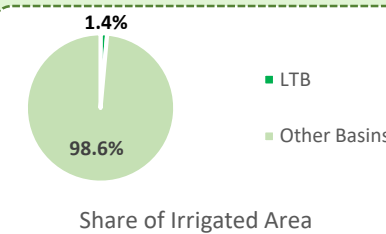


Lake Tanganyika Basin Water Demands Key Figures



Tanzania's Total Irrigated Area:
460,300 ha

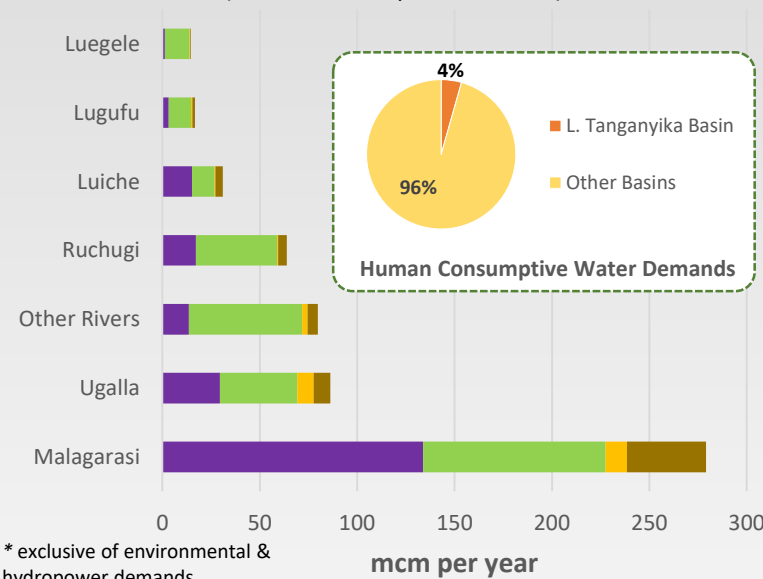


The Falkenmark Water Stress Indicator

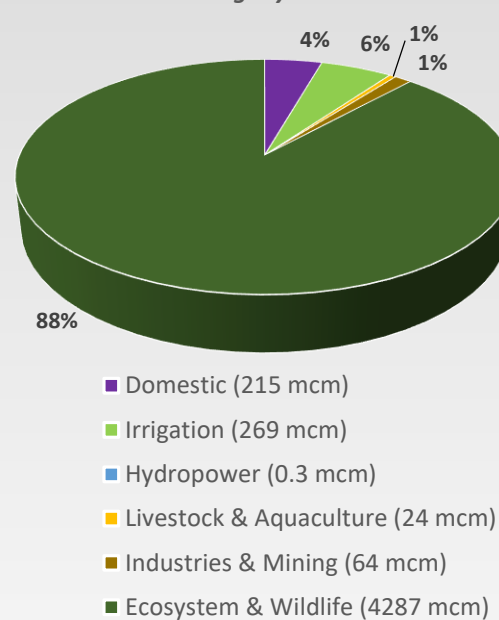
Available Renewable Water per Capita (m ³ /yr)	Indication
< 1700	Water Stress
< 1000	Water Scarcity
< 500	Absolute Water Scarcity

! 77% of people in Lake Tanganyika Basin are experiencing water stress.

Water Demands in Basins* (human consumptive demands)



Water Demands by Sector (%) Lake Tanganyika Basin



Ecosystem is the largest water user in Lake Tanganyika Basin. About 32% of the renewable water resources in the basin is required for replenishment of environmental demands, and less than 5% is currently utilised for domestic, industries, irrigation, and livestock sectors. In the latter portion, Irrigation sector accounts for about 47% of human-consumptive uses, which makes it the second rank in water demands, followed by domestic water uses making up 38% of human water uses in the basin.



Physiographic Profile

Land Area	160,800 km ²
No. of Sub-basins	7
No. of Major Lakes	4
Protected Areas	
No.	184
Area	82,654 Km ²
Dominant Soil Texture	Sandy (Clay) Loam
Dominant Productive Formation	Migmatite/ Granitoid/ Meta-Sediment Complexes
Mean Vegetation Index	0.34
Forest Cover Change (2000-2015)	-0.56 %/yr
Average Slope	4.4%
Altimetry	
Highest:	2,474 m.a.s.l.*
Lowest:	760 m.a.s.l
Mean Elevation	1,200 m.a.s.l

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

Socio-Economic Profile (2019)

Population	6.95 million
Population Density	43 person/km ²
Water per Capita	1,928 m ³ /yr

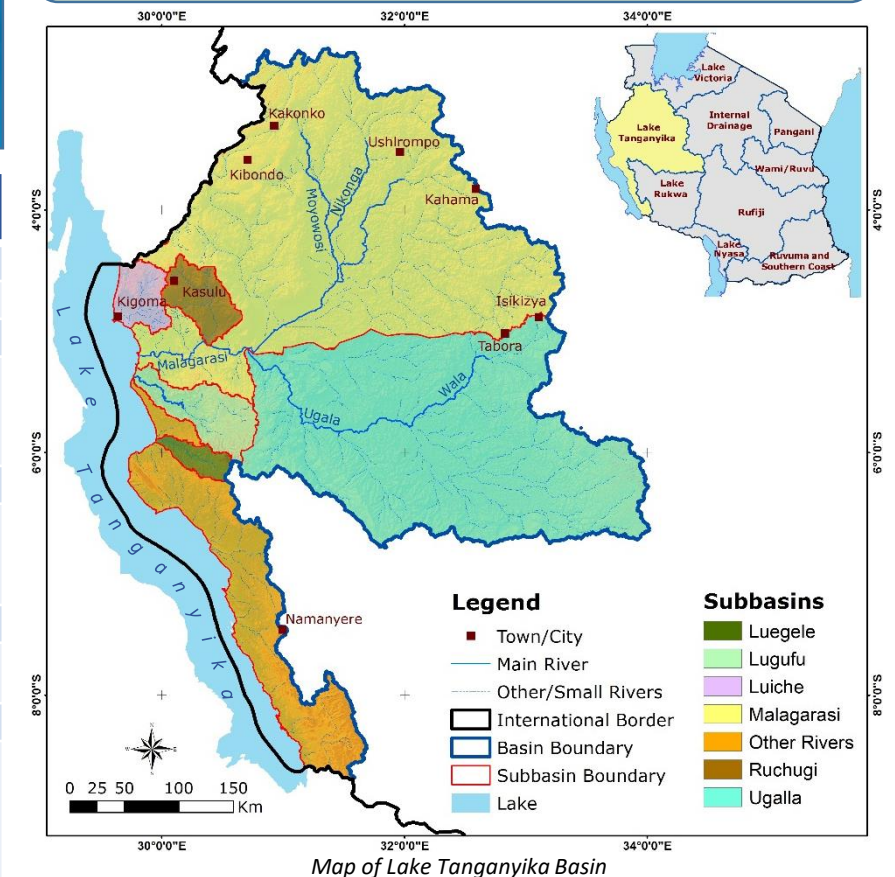
Hydro-Climatic & Water Resources Profile*

Average Precipitation	1,007mm/yr
Average Temperature	25.0 °C
Average Evapotranspiration	
Potential	1,420 mm/yr
Actual	821 mm/yr
Average Renewable Water Resources	13,396 mcm/yr
Surface Water	10,641 mcm/yr
Groundwater	2,755 mcm/yr
Water Demands	
Averaged Total	4,860mcm/yr
Human Consumptive	572 mcm/yr
Water Resources Vulnerability Index	4.3 %

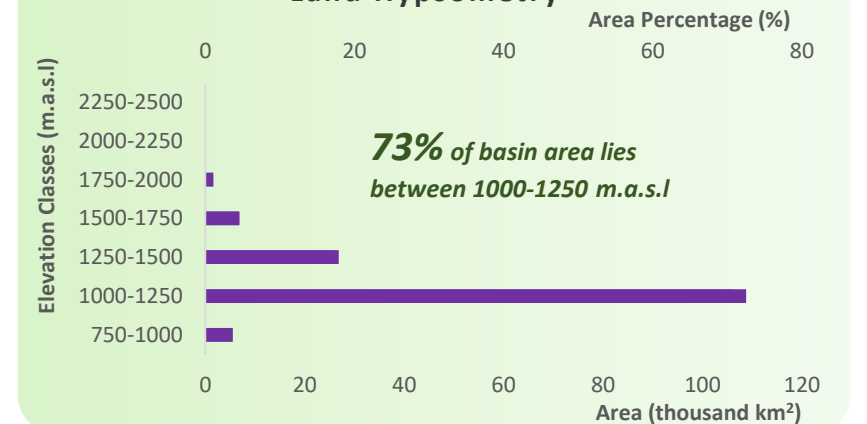
* According to Lake Tanganyika Basin IWRMDP, 2015

Tanzania mainland is comprised of nine hydrologic basins. Lake Tanganyika Basin is the 2nd largest basin that encompasses about 17% of the area of the country. The basin is stretched from central parts of Tanzania to the west and alongside the western borders, where Lake Tanganyika is located. Being the upstream headwaters of Congo River, Lake Tanganyika is shared between Tanzania, Congo, Burundi, and Zambia.

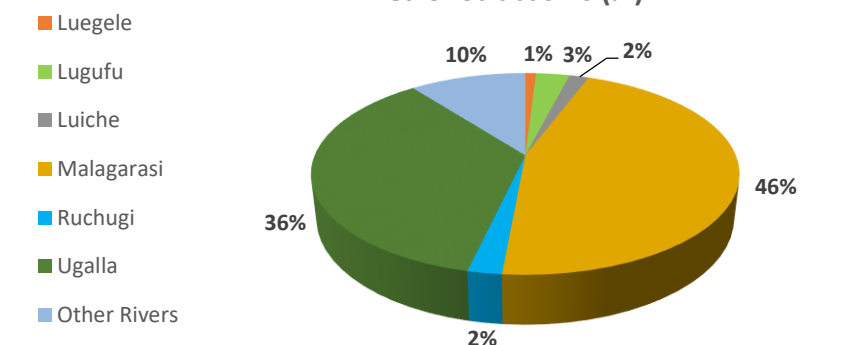
Water Resources Fact Sheet Lake Tanganyika Basin



Land Hypsometry



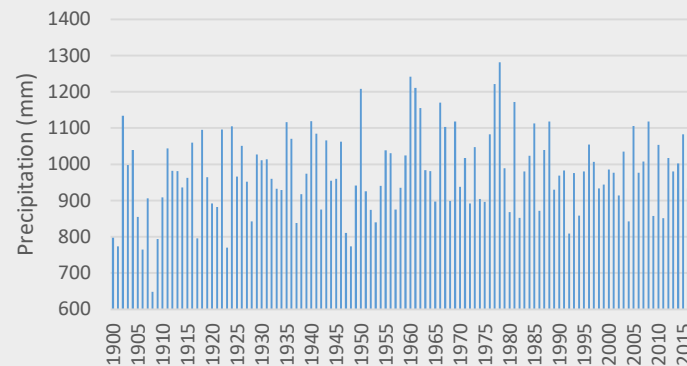
Area of Subbasins (%)



Lake Tanganyika Basin Water Resources Key Figures



Historic Annual Precipitation (1900-2016)



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

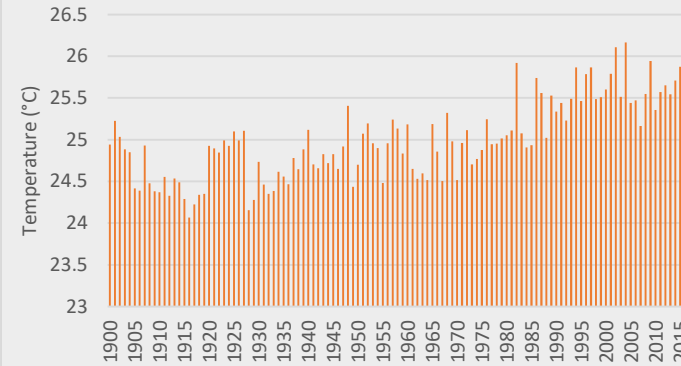
Long Term Rainfall Variation

Rainfall Average 1900-1930	966 mm
Rainfall Average 1985-2016	1,008 mm
Difference in Long-term Average	+42 mm

Difference in Rainfall*: + 4.4%



Historic Average Air Temperature (1900-2016)



Long Term Temperature Variation

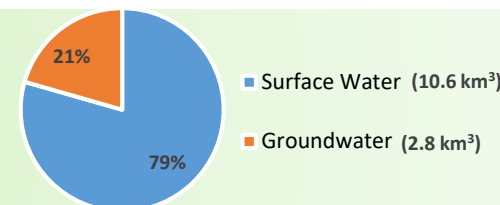
Temperature Average 1900-1930	24.65 °C
Temperature Average 1985-2016	25.58 °C
Difference in Long-term Average	+ 0.94 °C

Difference in Temperature*: + 3.6%

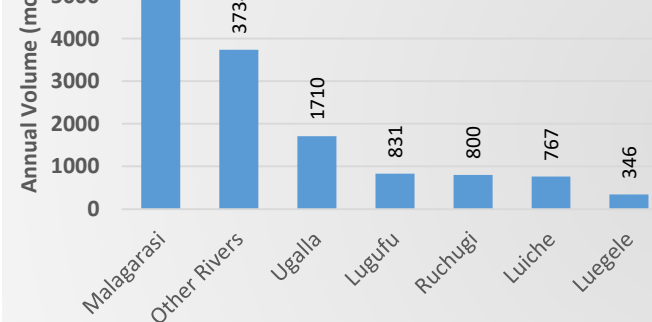


* Over 85 Years (30-yr average values, centered on 1915-2000)

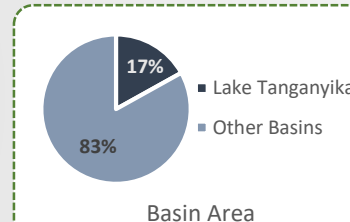
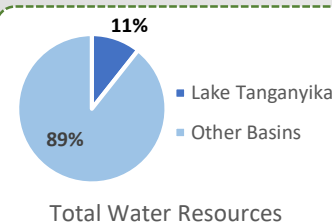
Annual Renewable Water Resources: **13.4 km³**
(inside Tanzania borders)



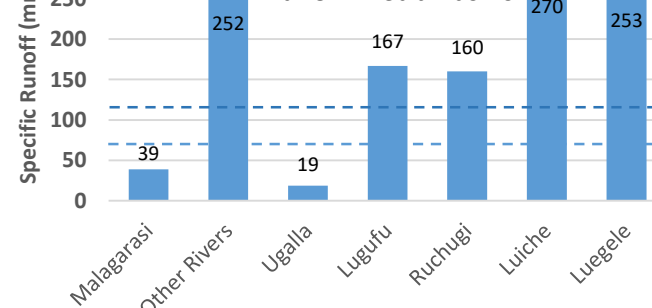
Average Total Renewable Water Resources in Sub-Basins



Share of Lake Tanganyika Basin in Tanzania's Renewable Water Resources



Average Surface Water Runoff in Sub-Basins



Average Country-wide Specific Runoff: 111 mm

Average Lake Tanganyika Basin's Specific Runoff: 67 mm

There is a large variation of runoff production within different sub-basins in Lake Tanganyika Basin:

- Luiche sub-basin as high as 406% of average
- Ugalla sub-basin as low as 28% of average

Lake Tanganyika Basin receives in average an annual precipitation of 161 km³ out of which as much as 147.6 km³ returns back to the atmosphere and about 13.4 km³ (8%) turns into surface and ground water as renewable freshwater resources.

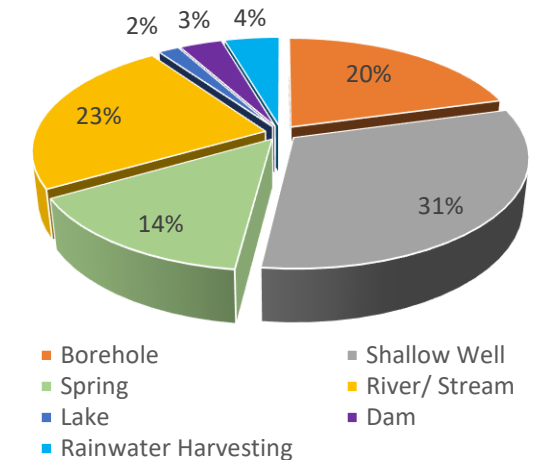
Lake Tanganyika Basin Water Infrastructure Key Figures



Water Infrastructure Profile

Water Points	
No. of Water Points	9,374
No. of Taps	12,214
No. of Monitoring Stations:	
Weather	15
Rainfall	14
Hydrological	32
Hydrogeological	1
No. of Dams and Reservoirs	60
Reservoirs Capacity	55.7 mcm
Irrigation Schemes	
No.	117
Area	6,501 ha
Irrigation Efficiency	25%
Main Crops (irrigated)	Maize, Sorghum, Wheat, Beans

Water Points by Sources of Water



Average Gross Area per Water Point: 17 km²

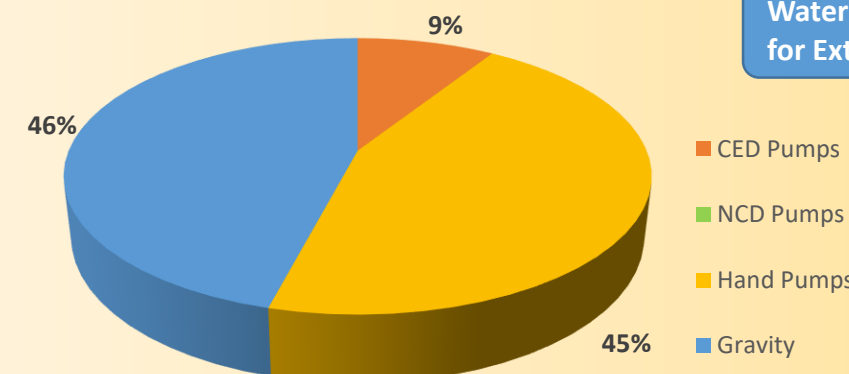
Functioning Water Taps: 7,742

63%

Water Points Supplied by Groundwater and Springs

66%

Extraction Technologies at Water Points



Water Points that Need Energy for Extraction of Water

54%

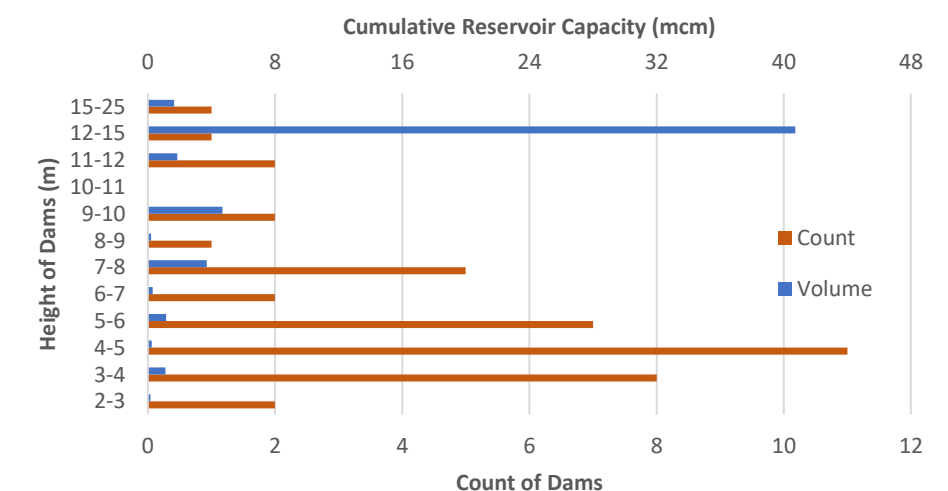
CED Pumps: Conventional Energy-Driven Pumps (includes Thermal Electricity, Hydroelectricity, Gasoline & Diesel)

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 60 man-made dams constructed in Lake Tanganyika Basin with a total reservoir capacity of 55.7 mcm. The largest reservoir pertains to Igombe Dam with a height of 12 m and capacity of 40.7 mcm constructed on Kigozi River in Tabora Region.



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.