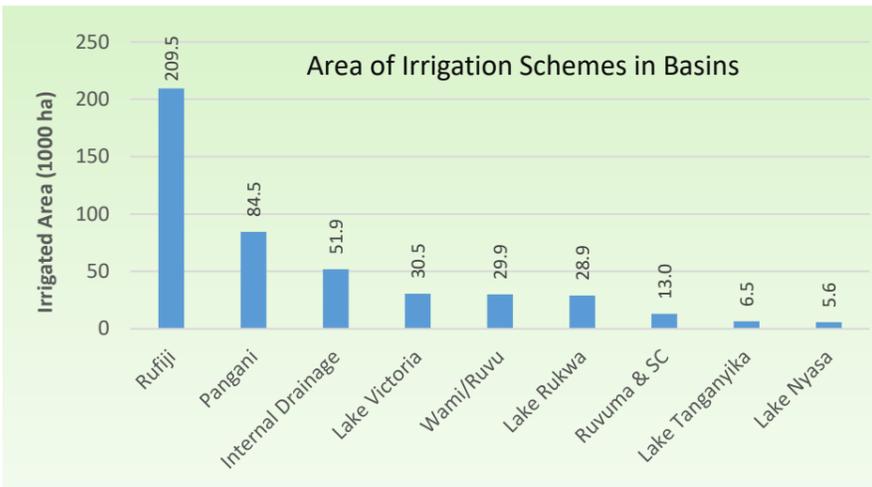
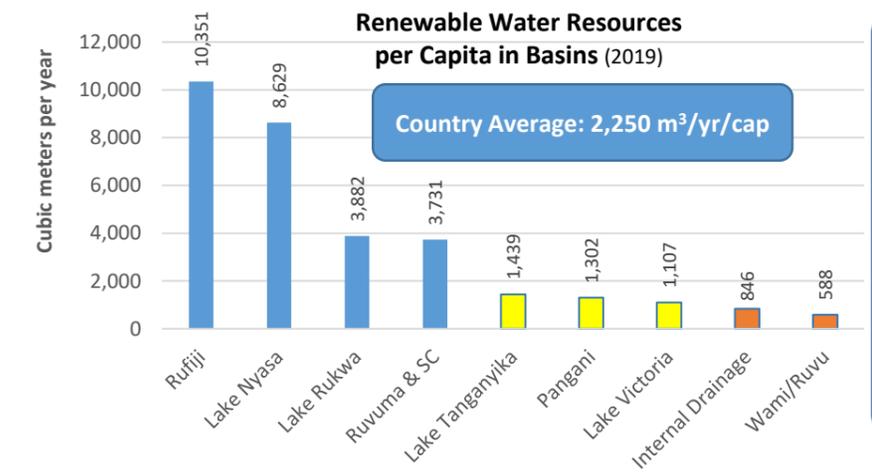
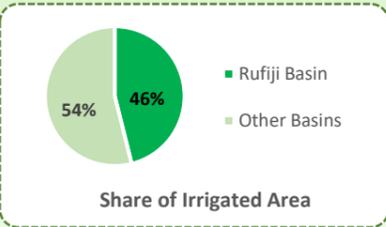


**Water Resources Division** **Tanzania Water Demands Key Figures**



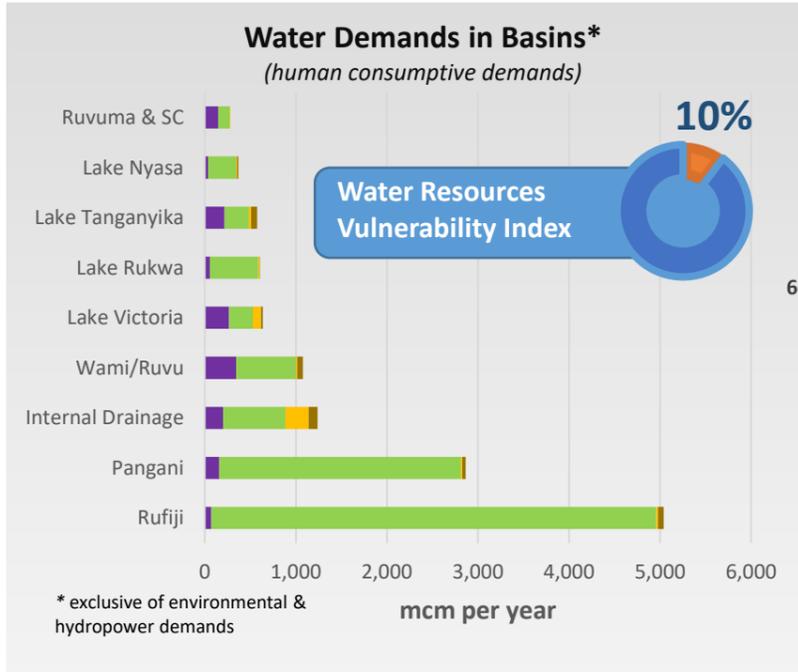
**Tanzania's Total Irrigated Area: 460,300 ha**



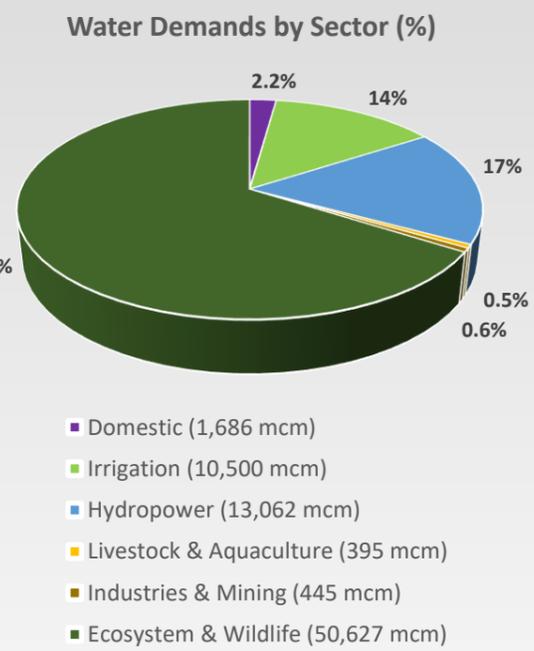
**Country Average: 2,250 m³/yr/cap**

**The Falkenmark Water Stress Indicator**

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



**Water Resources Vulnerability Index**



Ecosystem is the largest water user in Tanzania mainland. About 45% of the renewable water resources is required for replenishment of environmental demands, and 31% is currently utilized for domestic, industries, irrigation, and livestock sectors. In the latter portion, Irrigation sector accounts for about 82% of human-consumptive uses, which makes it the second rank in water demands. Third rank goes to hydropower, building up 23% of total demands, however it is mostly a non-consumptive use.

**The United Republic of TANZANIA**  
**Ministry of Water**

**Physiographic Profile**

Mainland Area	944,800 km²
No. of Basins	9
No. of Major Lakes	14
Protected Areas	
No.	792
Area	374,280 Km²
Dominant Soil Texture	Sandy Clay Loam
Dominant Productive Formation	Granitoid - Meta-sediment Complexes
Mean Vegetation Index	0.32
Forest Cover Change (2000-2015)	-0.62 %/yr
Average Slope	5.84%
Altimetry	
Highest:	5895 m.a.s.l.*
Lowest:	0 m.a.s.l
Mean Elevation:	1026 m.a.s.l

**Socio-Economic Profile**

Population (2019)	55.9 million
Urban	18.5 million
Rural	37.4 Million
Population Density	59.2 person/km²
Households Connected to Electricity Grid	33%
Water per Capita (2019)	2250 m³/yr
Access to Clean Water (HBS,2019)	73%
Malaria Prevalence in Children (6 to 59 month)	7.0%
Human Development Index	0.538
Water and Sanitation-Related Deaths (% of total deaths)	12%

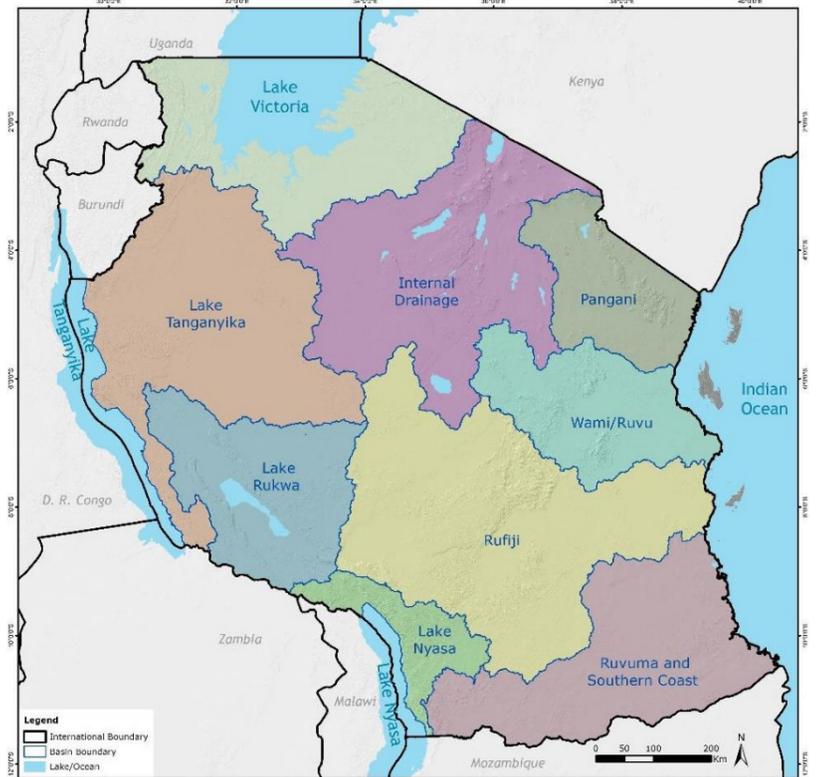
**Hydro-Climatic Profile\***

Average Precipitation	921 mm/yr
Average Temperature	20 °C
Average Evapotranspiration	1,326 mm/yr
Average Renewable Water Resources	125,763 mcm/yr
Surface Water	104,568 mcm/yr
Groundwater	21,195 mcm/yr
Water Demands	
Averaged Total	76,716 mcm/yr
Human Consumptive	13,027 mcm/yr

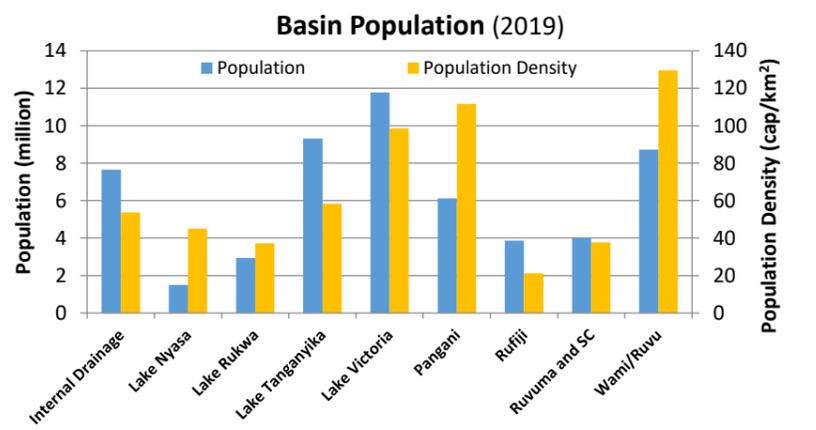
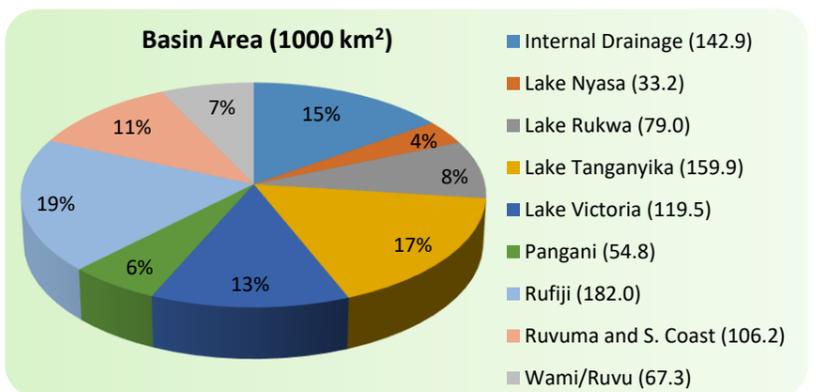
\* Based on the Basin IWRMDPs, 2015

Tanzania mainland is comprised of nine hydrologic basins. Four basins in the East – comprising 43% of country's area – drain into Indian Ocean. The northernmost basin drain into Lake Victoria that is the southernmost watersheds of the great Nile Basin. Lake Tanganyika and Lake Nyasa are two other transboundary freshwater lakes, which about 20% of the area of the territory drains into. Seven of the nine basins are shared basins with the neighboring countries.

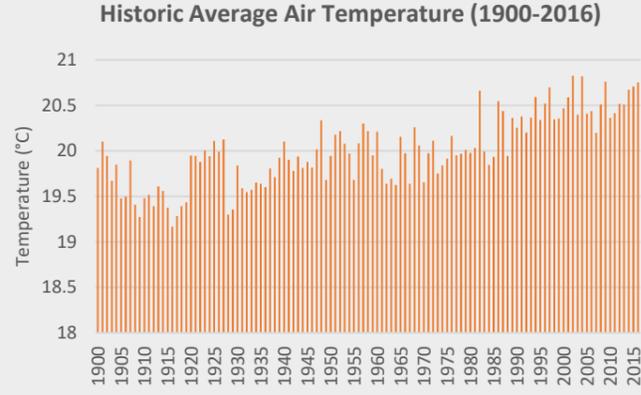
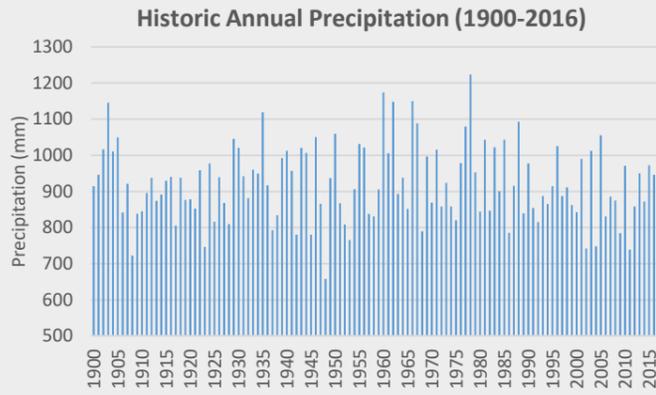
**Water Resources Fact Sheet**  
**Tanzania Mainland**



Map of Tanzania Mainland and the Nine Basins



## Tanzania Water Resources Key Figures



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

### Long Term Rainfall Variation

Rainfall Average 1900-1930	911 mm
Rainfall Average 1985-2016	898 mm
Difference in Long-term Average	- 13 mm

Difference in Rainfall\*: - 1.4%

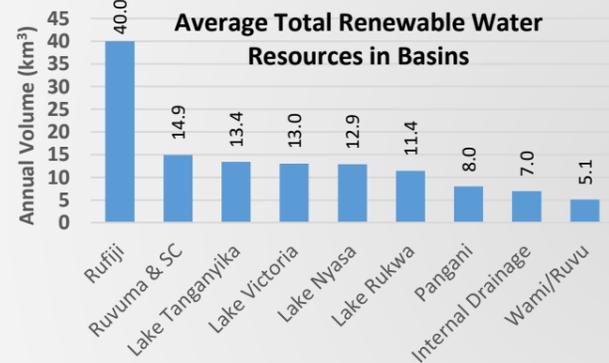
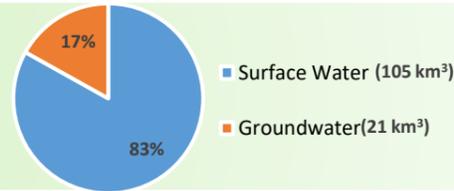
### Long Term Temperature Variation

Temperature Average 1900-1930	19.66 °C
Temperature Average 1985-2016	20.45 °C
Difference in Long-term Average	+ 0.79 °C

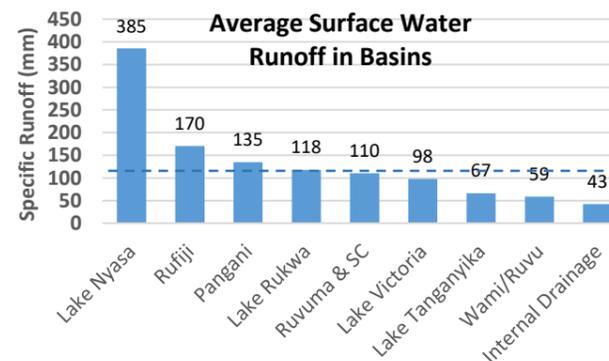
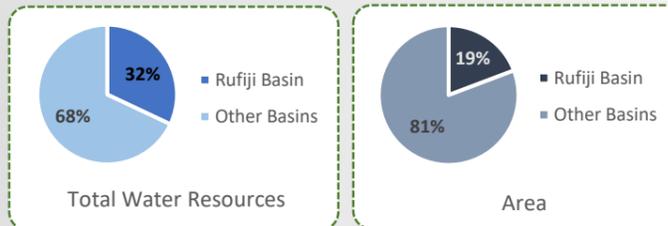
Difference in Temperature\*: + 4.0%

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

## Annual Renewable Water Resources: 126 km<sup>3</sup>



### Share of Rufiji Basin in Tanzania Renewable Water Resources



Average Country-wide Specific Runoff: 111 mm

There is a large variation of runoff production within different basins in Tanzania:

- Lake Nyasa Basin as high as 246% above average
- Internal Drainage Basin as low as 38% of average

Tanzania mainland receives in average an annual precipitation of 870 km<sup>3</sup> out of which as much as 744 km<sup>3</sup> returns back to the atmosphere and about 126 km<sup>3</sup> (14.5%) turns into surface and ground water as renewable freshwater resources.

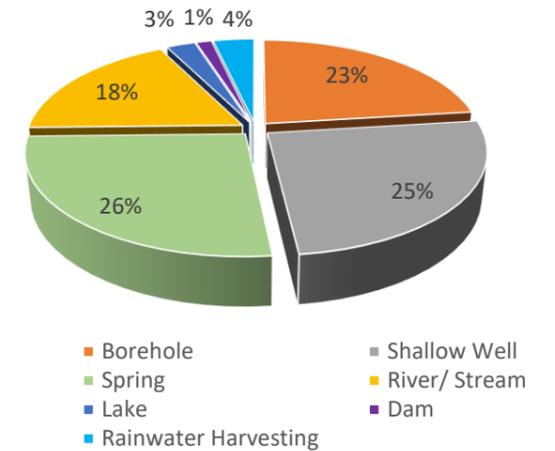
## Tanzania Water Infrastructure Key Figures



### Water Infrastructure Profile

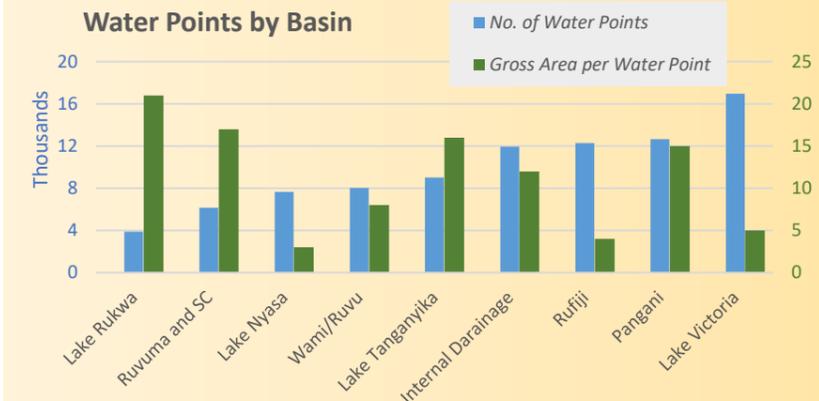
No. of Water Points (2019)	131,316
No. of Monitoring Stations:	
Weather	118
Rainfall	297
Hydrological	362
Hydrogeological	86
No. of Dams and Reservoirs	776
Reservoirs Capacity	5,462 mcm
Irrigation Schemes	
No.	2919
Area	460,300 ha
Irrigation Efficiency	25%-30%
Main Crops (irrigated)	Paddy, Maize, Sugarcane, vegetable

### Water Points by Sources of Water



No. of Functioning Water Points: 89,371 **68%**

Water Points Supplied by Groundwater and Springs **74%**

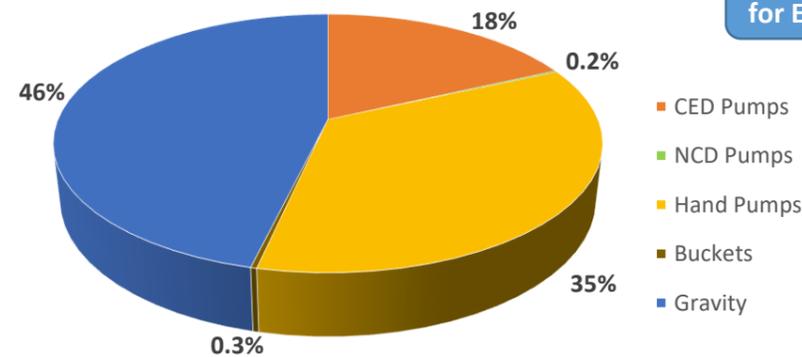


Average Gross Area per Water Point: 7.2 km<sup>2</sup>

Percent of rural population using at least basic drinking water services **65%**

Percent of urban population using at least basic drinking water services **87.6%**

### 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)

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.