## Water Resources Division

## **Ruvuma and Southern Coast Basin** Water Demands Key Figures









460,300 ha

Share of Irrigated Area

Ruvuma & S. Coast

Other Basins

3%

97%

Water Demands by Sector (%) Ruvuma and Southern Coast Basin



Ecosystem & Wildlife (4801 mcm)

Environment is the largest water user in Ruvuma and Southern Coast Basin. More than 32% of the renewable water resources in the basin is required for replenishment of environmental demands, and less than 3% is currently utilised for domestic, irrigation, and livestock sectors. Non-consumptive water uses are mainly environmental flows that account for 41% of surface waters in the basin. There is no hydropower plant in the basin at present.

THE UNITED REPUBLIC OF TANZANIA				
Ministry of Water				
Water Resources Division				
Physiographic Profile				

Basin Area	105,700 km <sup>2</sup>	
No. of Sub-basins	10	
Protected Areas		
No.	61	
Area	<b>20,511</b> Km <sup>2</sup>	
Dominant Soil Texture	Sandy Clay Loam	
Dominant Productive	Terrestric	
Formation	Coarse Clastic	
	Sediments	
Mean Vegetation Index	0.37	
Forest Cover Change (2000-2015)	- <b>0.04</b> %/yr	
Average Slope	4.7 %	
Altimetry		
Highest	<b>2,100</b> m.a.s.l*	
Lowest	<b>0</b> m.a.s.l	
Mean Elevation	464 m.a.s.l	

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

Socio-Economic Profile (2019)		
Population	3.6 million	<u> </u>
Population Density	34 person/km <sup>2</sup>	J.a.S
Water per Capita	<b>4,196</b> m³/yr	s (n
		classe
Hydro-Climatic & Water Resources Profile*		

		vat	250-500	
Average Precipitation	<b>987</b> mm/yr	Elev	0-250	
Average Temperature	<b>22.6</b> °C			
Average Evapotranspiration			C	
Potential	<b>1,542</b> mm/yr			
Actual	<b>831</b> mm/yr			
Average Renewable Water	14,947 mcm/yr	Ma	Mambi	
Resources		Lu	kuledi	
Surface Water	11,709 mcm/yr	M	bwemkuru	
Groundwater	3,238 mcm/yr	Ma	avuji	
Water Demands		Ma	atandu	
Averaged Total	5,232 mcm/yr	∎Up	oper Ruvuma	
Human Consumptive	<b>431</b> mcm/yr	Lik	conde	
Water Resources	3 %	Up	per Middle I	
Vulnerability Index	<b>U</b> 70	Lo	wer Middle F	
* According to Ruvuma and Southern Co	ast Basin IWRMDP, 2015	Lo	wer Ruvuma	

\* According to Ruvuma and Southern Coast Basin IWRMDP, 2015

Tanzania mainland is comprised of nine hydrologic basins. Ruvuma and Southern Coast Basin is the 5<sup>th</sup> largest basin that embraces more than 11% of the area of the country. The basin is stretched along the southern Tanzania – where Ruvuma River establishes border with Mozambique – to the southeast coasts of Indian Ocean. Waters that run from precipitation over the basin, flow eventually into the Indian Ocean.

Legend

 Town/City - Main River Other/Small Rivers Lake/Ocean Basin Boundary Subbasin Boundary International Border

1500-2250 1250-1500 1000-1250 750-1000 500-750 250-500 0-250



16%

8%

Water Resources Division

# **Ruvuma and Southern Coast Basin** Water Resources Key Figures



Water Infrastructure Profile				
Water Points				
No. of Water Points	6,868			
No. of Taps	8,121			
No. of Monitoring Stations:				
Weather	21			
Rainfall	10			
Hydrological	28			
Hydrogeological	6			
No. of Dams and Reservoirs	75			
Reservoirs Capacity	<b>21.6</b> mcm			
Irrigation Schemes				
No.	126			
Area	<b>12,950</b> ha			
Irrigation Efficiency	27%			
Main Crops (irrigated)	Maize, legume,			
	Cashew, Coconut			
Functioning Water Taps: 4,218 52%				
Extraction Technologies at Water Points				
28%	32%			
		CED P		
10		NCD P		
1%	0	%		



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.



Ruvuma and Southern Coast Basin receives in average an annual precipitation of 104.8 km<sup>3</sup> out of which as much as 89.9 km<sup>3</sup> returns back to the atmosphere and 14.9 km<sup>3</sup> (ca. 14%) turns into surface and ground water as renewable freshwater resources.