Basin short profile

Name	Merguellil river	Country	Tunisia
Area	2,000 km ²	Altitude	From 1200 m to the sea
Rainfall/Evapo	rainfall: 400-500 mm in the upper basin 300-400 mm in the median zone <300 mm in the downstream zone semi-arid climate with a very strong inter-annual variability of precipitations. Modal/bimodal: bimodal ETP: from 1193 to 1345 mm/year		
Land use (1998)	Upper basin: Forest: 19%, cereal 52 %, pasture land 26,5 % Median zone: land-forest 41%, Market gardening 2%, cereal 19%, arboriculture 37% Downstream zone: cereal 24 %, Market gardener 38 % arboriculture 30 %		
Irrigation	Total ≈ 1,2050 ha Median zone: 3300 ha, Downstream zone: 16 minor irrigated areas 4570 ha, 1200 private shallow wells: 4180 ha		
Water Indicators	Total Runoff: 500x10 ⁶ m³/year, Renewable water available in Tunisia: 480 l/year/pers Regulated water in El Haouareb dam: 23x10 ⁶ m³/year in average Water diverted per person: ≈ 100 m³/year /capita In tourist zone: 560 l/day/bed occupied Water use per sector: Agriculture 30 x 10 ⁶ m³ / year., Human consumption: 20 x10 ⁶ m³/year		
Drinking water	140 drills, important transfer (300 l/s) to the touristic zone of Sahel and town of Kairouan		
Main crop(s)/yield	Rainfall Cereal (1,2t/ha);Irrigated cereal (4t/ha); Tomato (35t/ha), water melon (20t/ha); pimento (10t/ha); rainfall olive (1t/ha); irrigated olive (2t/ha)		
Population	93 % rural and agricultural activity: potential of 1.5 million working days per annum, Percentage of children in full-time education 99 %, Population under 30: 58 % / Population growth 2000-2001: 1.14 % per annum.		
Floods	El Haouareb dam built for	protection of Kairoua	n town from floods
Groundwater	Principal water resource due to the intensity of runoff, four water tables upstream with good quality and one large water table downstream, subject to significant overdraft		
Environmental and health issues	Erosion in the mountain area, works for conservation of water and soils (more than 200 km ² of contour bunds) and construction of lakes and small dams (38 small dams and 5 dams carried out). At present no major problem of salinization of irrigated land (limited to some parts in the lower basin)		
Land/labour	Average farm size downstream: 5 to 10 ha, upstream < 5 ha		
Land tenure	Most irrigated lands are rainfed ag. lands and fores the state.		Rural daily wage: 5 DT/day (3 \$)
Water Management	Existing rules for the management of El Haouareb dam fixing down flows in the wadi to recharge groundwater downstream. To day still not applied, due to		

	insufficient rainfall For public irrigated schemes, state owner of the works but exploitation and light maintenance entrusted to water users organizations (GIC) There is no basin level organization at the moment		
Allocation rules	drinking water considered to be priority,		
Hydropower	No production		
Legal framework	Water Code of 1975, still in use.		
Politics, Civil Society	Free access to agricultural water on the lakes and small dams as in the groundwater table if the depth of the well does not exceed 50 m. Authorization for drillings deeper than 50 m		
Future developments	Ensure an adequate revenue to upstream farmers by introducing irrigation Master water demand downstream while preserving current agricultural activities that generate revenues and employment Protect dams against siltation		

General basin layout map