

Supplementary Material

Table S1. Key water-sector indicators for Azerbaijan, 2000–2023, compiled from Azerbaijani-language official statistical registers and translated to English. All values in million m³ year⁻¹ unless otherwise noted. Sources: State Committee on Statistics of the Republic of Azerbaijan.

Variable	Unit	2000	2005	2010	2015	2020	2022	2023
Water extraction from natural sources	Mm ³	11,110	12,050	11,566	12,285	12,961	13,841	12,806
— Surface-water extraction	Mm ³	10,443	11,002	9,698	9,673	9,808	10,672	9,875
— Groundwater extraction	Mm ³	547	798	1,272	2,016	2,395	2,356	2,081
Groundwater share of total extraction	%	5.0	6.6	11.0	16.4	18.5	17.0	16.3
Total water consumption	Mm ³	6,588	8,231	7,120	7,971	8,936	9,715	8,922
— Agricultural consumption (irrig. + livestock)	Mm ³	5,172	5,524	5,460	6,438	7,235	7,701	7,236
— Industrial consumption (energy + manuf.)	Mm ³	2,182	2,117	1,221	1,189	1,381	1,682	1,312
— Household / domestic consumption	Mm ³	449	454	330	239	287	285	277
Agricultural share of total consumption	%	78.5	67.1	76.7	80.8	80.9	79.3	81.1
Conveyance losses (distribution network)	Mm ³	3,053	3,569	3,850	3,718	3,267	3,313	3,034
Conveyance losses as % of extraction	%	27.5	29.6	33.3	30.2	25.2	23.9	23.7
Renewable freshwater resources (TRWR)	Mm ³	23,407	23,915	28,735	18,367	13,915	17,042	17,819
— Internal runoff	Mm ³	4,634	4,348	5,603	4,150	4,503	4,792	4,627
— Transboundary surface inflow	Mm ³	18,773	19,566	23,132	14,217	9,412	12,250	13,192
National precipitation	Mm ³	38,369	35,252	43,282	40,927	37,671	32,129	40,130
National evapotranspiration	Mm ³	33,735	30,904	37,679	36,777	33,168	27,239	35,503
WSI (this study)	%	47	49	38	64	88	76	67
SDG 6.4.2 official water stress level	%	—	—	—	—	53.9	57.5	52.8
SDG 6.3.1 safely treated wastewater share	%	—	—	—	—	52.6	56.2	53.2
Water-use efficiency (SDG 6.4.1)	USD m ⁻³	—	—	—	—	3.73	6.57	6.17
National avg. precipitation (meteorological)	mm	—	407	500	473	445	371	481
1961–1990 precipitation normal (national)	mm	479	—	—	—	—	—	—
Irrigated agricultural land	10 ³ ha	1,426	1,433	1,425	1,435	—	—	—

Variable	Unit	2000	2005	2010	2015	2020	2022	2023
Piped water supply (utilities)	Mm ³	—	695	618	692	689	658	—
Distribution losses (piped network)	Mm ³	—	126	172	347	295	240	—
Population connected to piped water	%	—	41.6	46.3	49.9	63.9	65.8	—
Urban wastewater treated (secondary)	10 ³ m ³ d ⁻¹	—	447	509	546	617	673	—
Population connected to wastewater collection	%	—	30.2	31.3	32.4	37.9	38.6	—