

Table 1 Chemical parameters of the 10 main rivers in Lebanon, June 2023

River	Aspect	pH	Dissolved oxygen (mg/L)	% Saturation	Nitrate (mg/L)	Phosphate (mg/L)	Sulfate (mg/L)	Total dissolved solid (mg/L)
FAO guidelines	No guideline	6-8.5	>6.5	80-120	0-10	0-2	0-500	0-2000
El Kabir (Akkar)	Clear	8.9	5.11	63	16	1.7	81.2	681
Kadisha/Abou Ali	Murky	8.74	5.45	61	16	1.8	69.5	753
Kfarhelda/El Jaouz (Batroun)	Slightly cloudy	7.48	9.3	87	35.6	0.09	8.6	194
Abraham (Yahchouch)	Clear	7.33	9.27	86	2	0.08	22.5	223
Antelias	Cloudy	8.22	5.51	61	3.2	1.6	28.7	597
Damour	Slightly cloudy	9.11	9.2	88	1.5	0.4	6.1	210
Awali (Saida)	Cloudy	8.01	5.59	63	33	1.4	149.3	576
Litani (Beqaa)	Murky	9.02	4.43	54	0.9	0.03	17.6	821
Al Ghzayel (Anjar)	Murky	7.89	4.68	57	1.9	1.9	19.6	801
Ammiq (Beqaa)	Clear	7.31	10.33	95	39.8	2.1	12.3	118

FAO: Food and Agriculture Organization