

**S4 Table. Total bacterial abundance and the contribution of AAP bacteria to total bacterial abundance (%AAP) in the three broad seasonal categories: summer (stratification period), winter (ice cover period) and a mixed period. Average values are presented for each one of the 43 lakes sampled.**

Lake	Region	Summer		Winter		Mix	
		AAP (%)	Total bacteria ( $\times 10^5$ cellmL <sup>-1</sup> )	AAP (%)	Total bacteria ( $\times 10^5$ cellmL <sup>-1</sup> )	AAP (%)	Total bacteria ( $\times 10^5$ cellmL <sup>-1</sup> )
Brendon	BOR	5.5	34.3	4.38	42.4	-	
Clarky	BOR	5.0	13.9	3.57	29.9	9.38	20.4
EM 320	BOR	8.9	21.5	-	-	-	-
L 12	BOR	9.0	17.9	-	-	-	-
L 40	BOR	7.7	26.2	2.17	73.3	-	-
L 48	BOR	3.9	6.05	-	-	-	-
L 56	BOR	7.8	12.2	-	-	-	-
L 9	BOR	5.7	9.81	-	-	-	-
L 11	BOR	11.5	39.1	4.12	38.6	-	-
L 2	BOR	9.5	37.3	1.62	38.9	4.00	16.0
L 34	BOR	6.0	26.2	-	-	-	-
L 60	BOR	6.0	17.8	3.91	26.0	-	-
L 66	BOR	11.3	17.8	-	-	-	-
L 8	BOR	6.1	31.7	-	-	-	-
Laby	BOR	7.9	14.3	1.48	27.6	-	-
Mitsu	BOR	9.8	34.1	1.67	73.7	-	-
Natel	BOR	7.1	15.2	3.2	48.0	-	-
Argent	EST	16.1	20.0	-	-	-	-
Bowker	EST	4.9	13.2	3.64	26.3	3.49	20.1
Brompton	EST	6.6	28.3	-	-	-	-
Bran de Scie	EST	9.7	26.1	2.00	39.4	1.94	28.2
Brome	EST	5.3	10.7	-	-	-	-
Fraser	EST	4.5	32.0	-	-	-	-
Orford	EST	4.1	14.6	-	-	-	-
Parker	EST	8.6	12.4	-	-	-	-
Roxton	EST	7.4	29.7	-	-	-	-
Simoneau	EST	5.8	19.7	-	-	-	-
Stuckley	EST	3.2	3.80	-	-	-	-
Tomcod	EST	8.3	66.4	-	-	-	-
Waterloo	EST	2.2	47.3	-	-	-	-
Connelly	LAU	2.1	32.7	0.06	19.1	10.0	27.2
Cornu	LAU	3.3	25.0	-	-	-	-
Croche	LAU	1.8	16.0	4.43	11.9	8.66	18.2
Cryystal	LAU	4.6	14.8	-	-	-	-
Duffy	LAU	1.8	31.5	-	-	-	-
Dupuis	LAU	6.1	24.3	-	-	-	-
Echo	LAU	8.3	43.9	-	-	-	-
En Coeur	LAU	5.0	21.3	-	-	-	-
Fournelle	LAU	4.8	17.5	-	-	-	-
Lac du Nord		3.5	19.1	-	-	-	-
Morency	LAU	6.0	36.5	-	-	-	-
Pin Rouge	LAU	7.1	25.2	-	-	-	-
Rond	LAU	3.3	25.1	-	-	-	-

