

Table 1 Winter-summer differences expressed across lakes. Linear mixed models were used, with a random intercept for year

Variable	No. winter obvs	No. paired obvs	Fitted difference (\pm higher in winter)	SE of difference	Intercept (typical summer value)	SE of intercept	<i>P</i> -value of difference	<i>P</i> -value of intercept
chl <i>a</i> ($\mu\text{g/L}$)	119	118	-5.06	0.661	9.13	0.612	$\ll 0.001$	$\ll 0.001$
Phyto biovolume (mm^3/L)	17	17	-12.8	1.85	14.7	1.31	$\ll 0.001$	$\ll 0.001$
Crustacean zoop density(no./L)	36	36	-41.8	5.82	54.8	4.15	$\ll 0.001$	$\ll 0.001$
DOC (mg/L)	82	81	-0.0559	0.324	5.53	0.418	0.863	$\ll 0.001$
TDN ($\mu\text{g/L}$)	78	73	262	44.0	300	38.8	$\ll 0.001$	$\ll 0.001$
TDN:TDP (as atoms)	71	66	27.5	40.6	161	29.6	0.498	$\ll 0.001$
TDP ($\mu\text{g/L}$)	73	72	3.97	3.18	11.8	2.83	0.213	$\ll 0.001$
TN ($\mu\text{g/L}$)	76	75	161	23.1	552	23.7	$\ll 0.001$	$\ll 0.001$
TN:TP (as atoms)	75	74	24.0	6.44	88.3	4.89	$\ll 0.001$	$\ll 0.001$
TP ($\mu\text{g/L}$)	107	106	-1.35	1.95	27.1	1.98	0.488	$\ll 0.001$
Water temp ($^{\circ}\text{C}$)	113	107	-15.1	0.19	16.2	0.202	$\ll 0.001$	< 0.001