Monitoring data benchmarks of lakes NOF ecosystem health attributes

Lake Wairarapa

NOF code
A
B
C
D

Statistics calculated for each of the last three years (2014/15, 2015/2016 & 2016/17)

Year	Lake Wairarapa sites	NOF lake type used	Total phosphorus median (mg/m^3)	Total nitrogen median (mg/m^3)	Chlorophyll *a* medium (mg/m^3)	Chlorophyll *a* maximum (mg/m^3)
2014/15	North (site 2)	Polymictic	57.5	465	3.5	8
2015/16	North (site 2)	Polymictic	58.5	485	8.5	79
2016/17	North (site 2)	Polymictic	48.0	820	6.0	14
2014/15	Middle	Polymictic	64.5	445	4.5	11
2015/16	Middle	Polymictic	40.0	410	7.0	111
2016/17	Middle	Polymictic	74	750	6.0	19
2014/15	Alsops Bay	Brackish	39.5	335	2.8	6
2015/16	Alsops Bay	Brackish	30.0	445	10.5	40
2016/17	Alsops Bay	Brackish	39.5	650	3.0	17

Statistics calculated over the last three years (July 2014 – June 2017)

Lake Wairarapa sites	NOF lake type used	Total phosphorus median (mg/m^3)	Total nitrogen median (mg/m^3)	Chlorophyll a medium (mg/m^3)	Chlorophyll a maximum (mg/m^3)
North (site 2)	Polymictic	57	570	5.5	79
Middle	Polymictic	61	540	5.0	111
Alsops Bay	Brackish	35	460	3.3	40

Lake Onoke

NOF code
A
B
C
D

Statistics calculated for each of the last three years (2014/15, 2015/2016 & 2016/17): Lake mouth open. *Note the lake mouth is not closed often enough when we are sampling to calculate meaningful statistics for each year*

Year	Lake Onoke	NOF lake type used	Total phosphorus median (mg/m^3)	Total nitrogen median (mg/m^3)	Chlorophyll *a* medium (mg/m^3)	Chlorophyll *a* maximum (mg/m^3)
2014/15	Lake Onoke at Ruamahanga confl.	Brackish	32	400	1.5	5.0
2015/16	Lake Onoke at Ruamahanga confl.	Brackish	26	410	1.5	8.0
2016/17	Lake Onoke at Ruamahanga confl.	Brackish	37	610	1.5	5.0

Statistics calculated over the last three years (July 2014 – June 2017): lake mouth open *(n* = 28)

	NOF lake type used	Total phosphorus median (mg/m^3)	Total nitrogen median (mg/m^3)	Chlorophyll *a* medium (mg/m^3)	Chlorophyll *a* maximum (mg/m^3)
Lake Onoke at Ruamahanga confl.	Brackish	35	530	1.5	8

Statistics calculated over the last three years (July 2014 – June 2017): lake mouth closed *(n* = 7)
Note a sample size of seven data points over a three year period is still quite small to draw conclusions from

	NOF lake type used	Total phosphorus median (mg/m^3)	Total nitrogen median (mg/m^3)	Chlorophyll *a* medium (mg/m^3)	Chlorophyll *a* maximum (mg/m^3)
Lake Onoke at Ruamahanga confl.	Brackish	16	300	1.5	45