

Appendix S1. Comparison of bluegill sunfish (*Lepomis macrochirus*) reproductive data collected from the fish reproduction study area at Lake Opinicon, Ontario from 1990 through 1993.

Variable	Trend	1990	1991	1992	1993
First spawn date		June 6	May 24	June 1	June 6
Last spawn date		July 11	July 9	July 18	July 13
Season length (days)		36	47	48	38
No. of bouts		6	8	7	8
No. of nesting males	mid-season peak (χ^2)	<0.001	<0.001	<0.001	<0.001
Size of nesting males	linear decreasing	–	–	<0.001	<0.001
Parental care length	linear decreasing	<0.05	<0.001	<0.001	<0.001
Probability of spawning, P	increasing (χ^2)	<0.001	<0.001	<0.001	<0.001
Brood size, C	mid-season peak (ANOVA)	–	–	<0.001	<0.001
Brood survival, S	increasing until final bout (χ^2)	<0.001	ns	<0.01	<0.01

P-values indicate that the data followed the described pattern (ns denotes a non-significant result). Dashes indicate years in which data were unavailable.