

Morin, D. J. and Kelly, M. J. 2017. The dynamic nature of territoriality, transience and biding in an exploited coyote population. – Wildlife Biology 2017: wlb.00335

Appendix 1

Table A1. Sensitivity analysis of threshold for two metrics evaluated. The 95% minimum convex polygon (MCP) three-month moving window home range area ($A_{3-month}$), was used to classify residents from transients. The stability:area ratio classification

$(\frac{d}{A} = \frac{\text{distance between successive monthly activity centers}}{95\% \text{ monthly MCP}})$ was used to identify territory shifts. All

metrics were summarized at 1-month intervals and thresholds were selected that resulted in < 0.01 changes in classification compared to the previous value across a range of possible values.

Metric	Possible threshold values	% changes in classification
95% minimum convex polygon (MCP) three-month moving window home range area ($A_{3-month}$)	80 km ²	3.13
	90 km ²	5.21
	100 km ²	2.10
	110 km ²	3.13
	120 km ²	0.00
	130 km ²	1.04
	140 km ²	2.10
	150 km ²	0.00
Stability:area ratio classification $(\frac{d}{A} = \frac{\text{distance between successive activity centers}}{95\% \text{ MCP}})$	160 km ²	1.04
	0.1 km km ⁻²	11.30
	0.2 km km ⁻²	1.80
	0.3 km km ⁻²	0.87
	0.4 km km ⁻²	2.61
	0.5 km km ⁻²	0.87
	0.6 km km ⁻²	0.87
	0.7 km km ⁻²	0.00
0.8 km km ⁻²	0.00	