

Appendix 7.

Bayesian p-values for all formulations of detection covariates for spring community models. Values closer to 0.5 indicate better fit. Detection covariates are as follows: none – only an intercept was included; time – hours after sunrise for the day of survey; year – categorical effect of year of survey, which was intended as a stand-in for observer effect; hab – categorical effect of habitat class, which was identical to the habitat covariate included in the final model; and trail – the area covered by OHV trails within 100 m of each survey point center in OHV use areas.

Covariates	Bayesian P-value	Distance from 0.5
trail	0.50	0.00
hab	0.49	0.01
hab + trail	0.49	0.01
time + hab	0.49	0.01
time + hab + trail	0.51	0.01
time + trail	0.51	0.01
year + hab	0.51	0.01
year + trail	0.51	0.01
none	0.47	0.03
year	0.47	0.03
time + year	0.47	0.04
time + year + hab	0.54	0.04
time	0.44	0.06
year + hab + trail	0.56	0.06
time + year + trail	0.57	0.07