

Appendix 5.

Estimates of total detection probability (p estimate) within a 100 m radius circle, estimate of sigma for the negative-exponential detection function, and the total number of distances used to fit each detection model (n), for the spring models. We provide 95% Bayesian credible intervals (BCI). Note that because detection model estimates vary little between OHV only and trails only models, we only provided a single estimate of each parameter from the OHV trail model.

Species	p estimate (95% BCI)	Sigma estimate (m) (95% BCI)	n
ACWO	0.32 (0.17 , 0.44)	50.22 (29.59 , 72.50)	30
AMCR	0.40 (0.25 , 0.58)	66.78 (40.25 , 112.12)	12
ANHU	0.07 (0.03 , 0.14)	17.79 (11.07 , 25.85)	25
ATFL	0.28 (0.18 , 0.40)	45.35 (31.29 , 64.10)	29
BEWR	0.20 (0.15 , 0.26)	34.11 (27.17 , 42.07)	77
BUOR	0.13 (0.04 , 0.24)	25.28 (12.66 , 39.36)	12
BUSH	0.10 (0.05 , 0.18)	21.46 (14.72 , 30.66)	22
CALT	0.23 (0.13 , 0.36)	37.92 (25.23 , 57.23)	15
CAQU	0.36 (0.23 , 0.52)	58.57 (37.38 , 92.00)	17
CATH	0.26 (0.16 , 0.38)	41.25 (28.75 , 60.77)	22
CORA	0.43 (0.31 , 0.59)	71.94 (47.91 , 112.78)	30
DEJU	0.14 (0.06 , 0.23)	26.10 (16.50 , 36.93)	25
EUST	0.16 (0.07 , 0.26)	28.36 (18.00 , 41.58)	16
HOFI	0.22 (0.13 , 0.34)	37.10 (25.26 , 52.71)	22
HOWR	0.24 (0.09 , 0.37)	38.82 (20.27 , 58.20)	18
HUVI	0.22 (0.11 , 0.35)	35.93 (22.76 , 54.91)	13
LAZB	0.23 (0.11 , 0.36)	37.58 (22.82 , 57.09)	16
LEGO	0.11 (0.06 , 0.19)	23.11 (15.86 , 31.97)	25
MODO	0.28 (0.18 , 0.38)	44.40 (31.35 , 59.90)	44
NOFL	0.32 (0.17 , 0.46)	51.00 (30.25 , 76.77)	26
OATI	0.15 (0.08 , 0.24)	28.15 (18.29 , 38.74)	27
OCWA	0.20 (0.14 , 0.28)	33.68 (25.95 , 44.11)	46
SOSP	0.11 (0.05 , 0.20)	22.73 (15.10 , 33.09)	23
SPTO	0.23 (0.17 , 0.30)	37.71 (29.90 , 46.75)	82
STJA	0.22 (0.13 , 0.33)	36.64 (25.41 , 52.36)	22
TUVU	0.46 (0.28 , 0.63)	78.23 (44.73 , 131.82)	20
WEBL	0.17 (0.07 , 0.28)	29.48 (17.78 , 43.78)	15
CASJ	0.26 (0.17 , 0.34)	41.35 (29.70 , 53.83)	58
WIWA	0.14 (0.08 , 0.22)	26.41 (18.75 , 36.74)	23
WREN	0.38 (0.29 , 0.47)	59.98 (45.86 , 79.30)	74