

Denny, C. K., Stenhouse, G. B. and Nielsen, S. E. 2018. Scales of selection and perception: landscape heterogeneity of an important food resource influences habitat use by a large omnivore. – Wildlife Biology 2018: wlb.00409

Appendix 1

Table A1. Comparison of hypotheses describing grizzly bear selection for mean buffaloberry fruit density at the landscape-level as estimated at 32 spatial scales from 172 m to 5488 m, corresponding to grizzly bear travel distances at successive 30-min increments.

Spatial scale (m)	Intercept	Standardized beta (β) coefficient of mean fruit density	Standard error of standardized beta coefficient	Odds ratio	Δ AIC	Weight
1887	-1.75	0.64	0.02	1.90	0.00	0.98
1715	-1.74	0.63	0.02	1.88	7.55	0.02
2058	-1.74	0.64	0.02	1.90	20.11	0.00
1544	-1.74	0.62	0.02	1.85	38.91	0.00
2230	-1.74	0.64	0.02	1.89	41.37	0.00
2401	-1.73	0.63	0.02	1.88	75.81	0.00
1372	-1.73	0.60	0.02	1.82	80.67	0.00
2573	-1.73	0.63	0.02	1.88	94.30	0.00
2744	-1.73	0.63	0.02	1.87	112.85	0.00
2916	-1.72	0.62	0.02	1.86	146.58	0.00
1201	-1.71	0.56	0.02	1.76	158.47	0.00
3087	-1.71	0.61	0.02	1.84	181.19	0.00
3259	-1.71	0.61	0.02	1.83	205.16	0.00
3430	-1.70	0.60	0.02	1.82	224.29	0.00
3602	-1.69	0.59	0.02	1.81	255.08	0.00
3773	-1.69	0.58	0.02	1.79	286.32	0.00

3945	-1.68	0.58	0.02	1.78	309.93	0.00
1029	-1.66	0.50	0.02	1.65	311.49	0.00
4116	-1.68	0.58	0.02	1.78	328.87	0.00
4288	-1.68	0.57	0.02	1.77	350.62	0.00
4459	-1.67	0.56	0.02	1.76	378.55	0.00
858	-1.64	0.46	0.02	1.58	397.77	0.00
4631	-1.67	0.56	0.02	1.74	399.30	0.00
4802	-1.66	0.55	0.02	1.74	417.36	0.00
4974	-1.66	0.55	0.02	1.73	435.73	0.00
5145	-1.66	0.54	0.02	1.72	448.80	0.00
5317	-1.66	0.54	0.02	1.72	461.79	0.00
686	-1.62	0.43	0.02	1.53	462.17	0.00
5488	-1.65	0.54	0.02	1.72	473.73	0.00
515	-1.57	0.36	0.02	1.44	590.79	0.00
343	-1.53	0.31	0.02	1.36	685.67	0.00
172	-1.50	0.27	0.02	1.31	740.40	0.00

Table A2. Comparison of hypotheses describing grizzly bear selection for variability in buffaloberry patch quality (standard deviation of fruit density) at the landscape-level as estimated at 32 spatial scales from 172 m to 5488 m, corresponding to grizzly bear travel distances at successive 30-minute increments.

Spatial scale (m)	Intercept	Standardized beta (β) coefficient of standard deviation of fruit density	Standard error of standardized beta coefficient	Odds ratio	Δ AIC	Weight
1201	-1.75	0.68	0.02	1.98	0.00	1.00
1372	-1.75	0.69	0.02	1.98	11.06	0.00
1544	-1.75	0.68	0.02	1.98	36.91	0.00
1715	-1.75	0.69	0.02	1.99	53.89	0.00
1887	-1.75	0.70	0.02	2.01	62.26	0.00
2058	-1.75	0.70	0.02	2.02	76.62	0.00
2230	-1.75	0.70	0.02	2.01	110.91	0.00
1029	-1.72	0.63	0.02	1.87	113.14	0.00
2401	-1.74	0.68	0.02	1.98	170.55	0.00
2573	-1.74	0.69	0.03	1.99	196.76	0.00
2744	-1.73	0.68	0.03	1.98	225.37	0.00
2916	-1.73	0.67	0.03	1.95	286.84	0.00
3087	-1.72	0.66	0.03	1.94	331.30	0.00
3259	-1.73	0.67	0.03	1.95	343.77	0.00
3430	-1.73	0.67	0.03	1.96	356.32	0.00
858	-1.66	0.52	0.02	1.68	359.50	0.00
3602	-1.72	0.66	0.03	1.94	400.72	0.00
686	-1.63	0.48	0.02	1.61	434.27	0.00
3773	-1.71	0.65	0.03	1.92	445.50	0.00
3945	-1.70	0.64	0.03	1.89	480.09	0.00
4116	-1.70	0.64	0.03	1.89	504.10	0.00
4288	-1.69	0.63	0.03	1.87	534.99	0.00
4459	-1.68	0.61	0.03	1.84	573.32	0.00

4631	-1.68	0.60	0.03	1.82	601.86	0.00
515	-1.58	0.39	0.02	1.47	623.66	0.00
4802	-1.67	0.59	0.03	1.81	625.76	0.00
4974	-1.66	0.58	0.03	1.79	648.17	0.00
5145	-1.66	0.58	0.03	1.78	664.46	0.00
5317	-1.66	0.57	0.03	1.77	678.96	0.00
5488	-1.65	0.57	0.03	1.77	690.80	0.00
343	-1.52	0.30	0.02	1.35	806.49	0.00
172	-1.49	0.26	0.02	1.30	860.04	0.00

Table A3. Comparison of hypotheses describing grizzly bear selection for buffaloberry fruit distribution (proportion of the landscape with buffaloberry fruit present) at the landscape-level as estimated at 32 spatial scales from 172 m to 5488 m, corresponding to grizzly bear travel distances at successive 30-minute increments.

Spatial scale (m)	Intercept	Standardized beta (β) coefficient of proportion of the landscape with buffaloberry fruit	Standard error of standardized beta coefficient	Odds ratio	Δ AIC	Weight
1887	-1.53	0.35	0.02	1.42	0.00	0.90
2058	-1.53	0.35	0.02	1.42	5.87	0.05
1715	-1.53	0.34	0.02	1.41	6.20	0.04
2230	-1.53	0.35	0.02	1.42	11.87	0.00
5488	-1.54	0.38	0.02	1.46	12.89	0.00
5317	-1.54	0.38	0.02	1.46	13.38	0.00
2573	-1.53	0.35	0.02	1.42	14.29	0.00
5145	-1.54	0.38	0.02	1.46	15.16	0.00
2401	-1.53	0.35	0.02	1.42	15.97	0.00
2744	-1.53	0.35	0.02	1.42	16.25	0.00
4974	-1.54	0.37	0.02	1.45	17.85	0.00
4802	-1.53	0.37	0.02	1.45	21.00	0.00
1544	-1.53	0.33	0.02	1.39	25.55	0.00
2916	-1.53	0.35	0.02	1.42	25.60	0.00
4631	-1.53	0.37	0.02	1.44	25.99	0.00
4459	-1.53	0.36	0.02	1.44	29.75	0.00
3259	-1.53	0.35	0.02	1.42	30.29	0.00
3087	-1.52	0.35	0.02	1.42	30.59	0.00
3430	-1.52	0.35	0.02	1.42	31.62	0.00
4288	-1.53	0.36	0.02	1.43	33.17	0.00
3602	-1.52	0.35	0.02	1.42	37.26	0.00
4116	-1.52	0.36	0.02	1.43	37.52	0.00
3773	-1.52	0.35	0.02	1.42	41.06	0.00
3945	-1.52	0.35	0.02	1.42	41.22	0.00

1372	-1.52	0.32	0.02	1.38	41.93	0.00
1201	-1.51	0.31	0.02	1.36	57.80	0.00
1029	-1.51	0.30	0.02	1.35	76.43	0.00
858	-1.50	0.29	0.02	1.34	81.64	0.00
686	-1.50	0.28	0.02	1.32	89.58	0.00
515	-1.48	0.26	0.02	1.30	107.88	0.00
343	-1.46	0.23	0.02	1.26	150.36	0.00
172	-1.44	0.20	0.02	1.22	202.33	0.00