

Table A2.1: Estimates of regression coefficients (β), upper and lower 95% Confidence Intervals (CI) standard error for top models in each candidate set of Whip-poor-will and Chuck-will's-widow from surveys in May-July 2022 in southern 11 counties of Illinois, USA.

	Covariate	β Coefficient	Lower 95% CI	Upper 95% CI	Standard Error
Whip-poor-will					
Landscape Composition	CONI	0.37	-0.09	0.84	0.23
	PAST	2.16	0.23	4.09	0.98
	WAT	0.68	-0.87	2.24	0.79
	CAN	6.49	1.84	11.13	2.36
	CAN ²	-1.54	-3.69	0.61	1.09
Forest Configuration	URN	-0.20	-0.96	0.54	0.38
	AGN	0.11	-1.07	1.30	0.60
	PAN	1.25	-0.04	2.55	0.66
	CONT	0.58	-0.15	1.31	0.37
	COR	4.49	1.04	7.93	1.75
	COR ²	-1.57	-3.19	0.04	0.82
Disturbance	CF	0.27	-0.31	0.87	0.30
	MAG	-1.04	-1.89	-0.18	0.43
	CF ²	0.05	-0.22	0.32	0.14
	MAG ²	0.4	-0.06	1.04	0.28
Chuck-will's-widow					
Landscape Composition	CONI	0.23603	-0.21	0.68	0.23
	CAN	0.240535	-0.39	0.87	0.32
	CAN ²	-0.22374	-0.88	0.44	0.33
Forest Configuration	CONT	-0.12271	-0.88	0.64	0.38
	COR	0.510751	-0.21	1.23	0.36
	COR ²	-0.35527	-1.11	0.40	0.38
Disturbance	DUR	-0.10465	-0.65	0.48	0.30
	YSD	0.219306	-0.34	0.77	0.28

Table A2.2: Model ranking results of Multinomial logistic regression for Whip-poor-will and Chuck-will's-widow in southern Illinois May-July 2022. *K* is the number of model parameters; AICc is corrected Akaike Information Criterion; Δ AICc is the difference in AICc between model and top model.

Whip-poor-will		
	K	Δ AICc
Intercept-only	2	0
Cropland	4	3.27
Forest	4	3.29
Pastureland	4	3.3
Developed	4	3.5

Chuck-will's-widow		
	K	Δ AICc
Intercept-only	2	0
Forest	4	1.91
Cropland	4	2.65
Developed	4	2.73
Pastureland	4	3.61