Appendix 2. Parameter estimates and 85% lower (LCI) and upper (UC) confidence intervals for all competitive models (ΔAICc < 2.0) for predicting occupancy of five focal species. Based on data collected during springtime autonomous recording unit (ARU) surveys in Iowa, USA, 2015-2019.

Species	Parameter	β	LCI	UCI
Common Yellowthroat	Model #1			
	p(int)	1.94	1.25	2.63
	p(temp)			
	Ψ(int)	0.34	-0.33	1.00
	Ψ(prairie)*	0.24	-0.41	0.89
		2.22	0.46	3.97
	Model #2			
	p(int)	2.05	1.36	2.74
	Ψ(int)	0.92	0.37	1.47
Field Sparrow	Model #1			
	p(int)	-0.35	-0.71	0.00
	p(distance to road)	-0.34	-0.79	0.14
	Ψ(int)	0.94	0.04	1.83
	Ψ(woody)*	2.18	0.87	3.50
	Model #2			
	p(int)	-0.29	-0.64	0.07
	p(distance to road)	-0.25	-0.72	-0.23
	Ψ(int)	-0.93	-1.75	-0.11
	Ψ(developed)*	2.63	1.31	3.94
	Model #3			
	p(int)	-0.30	-0.66	0.05
	p(distance to road)	-0.26	-0.73	0.21
	Ψ(int)	0.19	-1.29	1.67
	Ψ(woody)	1.16	-0.59	2.90
	Ψ(prairie)	-1.33	-3.08	0.42
	Ψ(developed)*	2.31	0.27	4.63
Grasshopper Sparrow	Model #1			
	p(int)	-0.47	-0.88	-0.07
	Ψ(int)	1.00	-0.40	2.41
	Ψ(crop)	-1.57	-3.42	0.28
	Model #2			
	p(int)	-0.43	-0.87	0.01
	Ψ(int)	0.51	-0.36	1.38
	Model #3			
	p(int)	-0.44	-0.92	0.03
	Ψ(int)	0.69	-0.76	2.14
	Ψ(grass)	0.96	-0.76	2.68
	Model #4			
	p(int)	-0.52	-0.91	-0.14
	Ψ(int)	3.53	-0.78	7.83
	Ψ(distance to road)	-3.43	-8.29	1.43
	Ψ(grass)	4.81	-0.12	9.74

	Ψ(distance to road*grass)	-4.16	-9.58	1.26
	Model #5			
	p(int)	-0.46	-0.93	0.00
	Ψ(int)	0.61	-0.49	1.72
	Ψ(distance to road)	-0.77	-1.90	0.32
Savannah Sparrow	Model #1			
	p(int)	-0.51	-0.79	-0.24
	Ψ(int)	-0.09	-0.91	0.73
	Ψ(woody)*	-1.58	-2.66	-0.50
	Model #2			
	p(int)	-0.55	-0.84	-0.27
	Ψ(int)	0.24	-0.62	1.10
	Ψ(crop)*	1.28	0.25	2.30
Vesper Sparrow	Model #1			
	p(int)	0.47	0.24	0.70
	p(distance to road)	1.02	0.72	1.32
	Ψ(int)	0.79	0.22	1.36
	Ψ(woody)*	-0.65	-1.27	-0.02
	Model #2			
	p(int)	0.48	0.24	0.71
	p(distance to road)	1.05	0.75	1.35
	Ψ(int)	0.86	0.29	1.92
	Ψ(crop)	0.24	-0.25	0.72
	Model #3			
	p(int)	0.48	0.25	0.71
	p(distance to road)	1.06	0.76	1.36
	Ψ(int)	1.11	0.29	1.92
	Ψ(prairie)	-0.49	-1.59	0.60

*Indicates an informative predictor of occupancy