

Estimating the effects of habitat and biological interactions in an avian community

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S4 Table: Species-specific estimates of detection parameters

Estimates of parameters related to detection probability of each species. Asterisks indicate species whose estimates were computed using the multispecies N-mixture model. Tabulated day-of-year effects differed significantly from zero (using 5% significance level). Asymptotic standard error or posterior standard deviation is given in parenthesis.

Species	Intercept	Day of year
<u><i>Long-distance migrants</i></u>		
Broad-winged Hawk	-0.81 (0.62)	
Yellow-billed Cuckoo	-1.11 (0.32)	
Black-billed Cuckoo	-3.73 (1.06)	-1.05 (0.43)
Eastern Wood-Pewee	0.57 (0.09)	
Acadian Flycatcher	0.04	

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Species	Intercept	Day of year
	(0.46)	
Great Crested Flycatcher	-0.02	
	(0.1)	
Eastern Kingbird	-0.18	
	(0.82)	
Yellow-throated Vireo	-0.34	
	(0.29)	
Red-eyed Vireo*	0.43	
	(0.06)	
Blue-gray Gnatcatcher	-0.18	
	(0.31)	
Veery	0.25	
	(0.07)	
Hermit Thrush	0.38	
	(0.37)	
Wood Thrush	0.41	
	(0.07)	
Ovenbird	0.67	
	(0.05)	
Worm-eating Warbler	0.02	
	(0.14)	
Louisiana Waterthrush	-2.76	-1.16
	(0.74)	(0.44)
Blue-winged Warbler	-1.85	-1.47
	(0.40)	(0.35)

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Species	Intercept	Day of year
Black-and-white Warbler	-0.34 (0.11)	
Hooded Warbler*	0.32 (0.18)	
American Redstart	-1.63 (0.38)	-1.06 (0.27)
Cerulean Warbler	-0.63 (0.58)	-2.65 (0.91)
Yellow Warbler	-1.21 (0.47)	
Chestnut-sided Warbler	2.13 (1.53)	-4.07 (1.92)
Prairie Warbler*	-0.03 (0.27)	
Black-throated Green Warbler	-0.64 (0.36)	
Canada Warbler	-0.18 (0.41)	
Scarlet Tanager	0.20 (0.09)	
Rose-breasted Grosbeak	-0.56 (0.29)	
Baltimore Oriole	-0.22 (0.16)	

Short-distance migrants

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Species	Intercept	Day of year
Northern Flicker	-0.77 (0.15)	
Eastern Phoebe	-0.94 (0.38)	
White-eyed Vireo	0.32 (0.26)	
House Wren*	0.81 (0.11)	
Gray Catbird*	0.07 (0.11)	
Brown Thrasher	-1.45 (1.03)	
Common Yellowthroat	0.12 (0.10)	
Eastern Towhee	0.25 (0.06)	
Field Sparrow	-0.18 (1.16)	
Red-winged Blackbird*	0.01 (0.19)	
Common Grackle	-1.99 (0.45)	
Brown-headed Cowbird	-1.28 (0.20)	-0.41 (0.14)

Permanent residents

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Species	Intercept	Day of year
Northern Bobwhite	0.30 (0.19)	
Ruffed Grouse	-1.01 (0.61)	
Mourning Dove	-0.65 (0.22)	
Red-bellied Woodpecker	-0.67 (0.21)	
Downy Woodpecker	-1.17 (0.20)	
Hairy Woodpecker	-0.26 (0.21)	0.45 (0.18)
Pileated Woodpecker	-0.18 (0.48)	
Blue Jay	-0.58 (0.09)	
American Crow*	-0.58 (0.11)	0.26 (0.11)
Fish Crow	0.75 (0.56)	
Black-capped Chickadee	-0.36 (0.09)	0.30 (0.09)
Tufted Titmouse	-0.03 (0.07)	
Red-breasted Nuthatch	1.08	

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Species	Intercept	Day of year
	(1.18)	
White-breasted Nuthatch	-0.22	
	(0.13)	
Brown Creeper	-0.76	
	(0.28)	
Carolina Wren	-0.36	
	(0.25)	
American Robin	-1.22	0.40
	(0.20)	(0.16)
Northern Mockingbird	0.13	
	(0.27)	
European Starling*	-0.89	
	(0.30)	
Cedar Waxwing	-0.18	
	(1.16)	
Song Sparrow	-0.18	
	(0.22)	
Northern Cardinal	-0.48	
	(0.11)	
House Finch	-1.01	
	(1.06)	
American Goldfinch	-2.47	
	(1.01)	