

Appendix 1. Bird species.

Bird species included in the analysis are listed in Table A1.1. Species not included in the analysis, e.g. migrants, non-forest species, and those with too few detections, are not included. The superscripts refer to those species with significantly declining populations over the 1966-2015 period, but not over the 2005-2015 period¹, or to species with significantly declining populations over both periods², according to Breeding Bird Survey (BBS) data for the Central BBS Region (Sauer et al. 2017).

Table A1.1. Bird species detected on surveys, with total number of observations and frequencies of detection (out of 588 total surveys) during the study.

Common Name	Scientific Name	Species Code	Number of detections	Number of surveys detected on
American Goldfinch	<i>Spinus tristis</i>	AMGO	265	168
American Redstart	<i>Setophaga ruticilla</i>	AMRE	78	52
American Robin	<i>Turdus migratorius</i>	AMRO	280	206
Baltimore Oriole ¹	<i>Icterus galbula</i>	BAOR	798	392
Bell's Vireo	<i>Vireo bellii</i>	BEVI	228	136
Black-capped Chickadee ¹	<i>Poecile atricapillus</i>	BCCH	182	130
Blue Jay ¹	<i>Cyanocitta cristata</i>	BLJA	335	238
Brown Thrasher ²	<i>Toxostoma rufum</i>	BRTH	206	158
Brown-headed Cowbird	<i>Molothrus ater</i>	BHCO	348	222
Cedar Waxwing	<i>Bombycilla cedrorum</i>	CEDW	70	48
Chipping Sparrow	<i>Spizella passerina</i>	CHSP	26	20
Common Grackle ¹	<i>Quiscalus quiscula</i>	COGR	191	114
Common Yellowthroat ²	<i>Geothlypis trichas</i>	COYE	144	95
Downy Woodpecker	<i>Picoides pubescens</i>	DOWO	93	87
Eastern Bluebird	<i>Sialia sialis</i>	EABL	30	26
Eastern Kingbird ²	<i>Tyrannus tyrannus</i>	EAKI	243	171
Eastern Wood-Pewee ¹	<i>Contopus virens</i>	EAWP	392	273
European Starling ²	<i>Sturnus vulgaris</i>	EUST	74	32
Field Sparrow ²	<i>Spizella pusilla</i>	FISP	221	152

Gray Catbird	<i>Dumetella carolinensis</i>	GRCA	150	115
Great Crested Flycatcher ¹	<i>Myiarchus crinitus</i>	GCFL	158	132
Hairy Woodpecker	<i>Picoides villosus</i>	HAWO	47	44
House Wren	<i>Troglodytes aedon</i>	HOWR	1257	474
Indigo Bunting	<i>Passerina cyanea</i>	INBU	90	77
Lark Sparrow ¹	<i>Chondestes grammacus</i>	LASP	56	43
Mourning Dove ¹	<i>Zenaida macroura</i>	MODO	806	463
Northern Cardinal	<i>Cardinalis cardinalis</i>	NOCA	248	190
Northern Flicker ²	<i>Colaptes auratus</i>	NOFL	160	133
Orchard Oriole ¹	<i>Icterus spurius</i>	OROR	439	261
Ovenbird ¹	<i>Seiurus aurocapilla</i>	OVEN	101	69
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	RBWO	85	75
Red-eyed Vireo	<i>Vireo olivaceus</i>	REVI	210	163
Red-headed Woodpecker ¹	<i>Melanerpes erythrocephalus</i>	RHWO	326	243
Red-winged Blackbird ¹	<i>Agelaius phoeniceus</i>	RWBL	278	103
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	RBGR	450	299
Rufous-sided Towhee	<i>Pipilo spp.</i>	RSTO	376	256
Scarlet Tanager	<i>Piranga olivacea</i>	SCTA	24	20
Song Sparrow	<i>Melospiza melodia</i>	SOSP	182	122
Warbling Vireo	<i>Vireo gilvus</i>	WAVI	331	241
White-breasted Nuthatch	<i>Sitta carolinensis</i>	WBNU	148	126
Wild Turkey	<i>Meleagris gallopavo</i>	WITU	33	31
Willow Flycatcher	<i>Empidonax traillii</i>	WIFL	139	94
Wood Thrush ¹	<i>Hylocichla mustelina</i>	WOTH	97	78
Yellow Warbler	<i>Setophaga petechia</i>	YWAR	1124	413
Yellow-billed Cuckoo ¹	<i>Coccyzus americanus</i>	YBCU	16	15
Yellow-throated Vireo	<i>Vireo flavifrons</i>	YTVI	16	15