

STUDY GUIDE: ENHANCE BIRDING BY EAR SKILLS TO IDENTIFY THE WOODLAND NESTING BIRDS IN THE BCN DATABASE

THE STATISTICS UNDERLYING THE BCN POPULATION TRENDS DATA FROM 1999-2020

<u>Trend</u>: Average annual population change (up or down) over the 22 year study period

<u>% Error</u>: When this # is larger than the Trend average #, the latter is uncertain

Points: # of individual points where the species was recorded at least once

<u>Records</u>: Total # of birds of a specific species, seen across all survey points

<u>Frequency</u>: % of survey points where a species was seen at least once; assesses overall abundance - more common species show approx 30-50% frequency

<u>Credibility</u>: Informed method of assessing the accuracy of the population Trend #; Higher % error reduces Credibility of the Trend value

The links to species songs and calls are from xeno-canto.org

In most cases, the recordings are from Illinois or nearby states, to avoid 'dialects' (many species songs vary with geography). Be sure to read the <u>terms of use</u> and the <u>FAQs</u>. Click on <u>advanced search</u> and type in a species name should you want to explore the available recordings for a particular species

Cautionary Note: The 50+ species contained in this study guide breed primarily in woodlands, yet likely will be observed in other habitats while monitoring. This will be also true for species that primarily nest in other habitat types. Why? Many species have adapted, breeding in different habitats, Red-winged Blackbirds and Common Yellowthroats, for example. Woodland species also will widely forage for food for their nestlings during the breeding season. Non-native plants in woodland habitat tend to be 'insect poor', so woodland nesters must extend their search. Various studies have shown that 'insect poor' habitats reduce nesting success.

The other factor influencing occupancy overlap: Fragmentation of habitat types – aka edge effects. BCN monitoring counts birds at points within 'natural areas' (approx 10% of the land area across the CW region) there is a significant edge effect – shrubland birds heard/seen from a woodland point, for example.

Regular (and rare) BCN woodland breeding birds - in alphabetical order



Species Trend % Error Credibility Points Records Frequency Tre	end Status							
Acadian Flycatcher 16.9% 8.2% Mod 34 65 1% Stro	ong Increase							
American Crow -7.6% 1.2% Good 585 1752 24% Ste	eep Decline							
<u>American Robin</u> 1.4% 0.4% Good 1970 19799 80% Mod	derate Increase							
<u>Baltimore Oriole</u> 2.8% 0.9% Good 873 2984 35% Moo	derate Increase							
Barred Owl Poor 10 11 0% Poor	orly Known							
Black-and-white Warbler Poor 3 3 0% Poor	orly Known							
Black-capped Chickadee -1.4% 0.8% Good 1004 5320 41% Mod	derate Decline							
Broad-winged Hawk -1.9% 6.4% Mod 25 32 1% Und	certain							
Brown Creeper Poor 2 2 0% Poor	orly Known							
<u>Carolina Wren</u> 2.1% 6.1% Mod 36 47 1% Und	certain							
<u>Cerulean Warbler</u> Poor 7 7 0% Poor	orly Known							
<u>Chimney Swift</u> 6.8% 2.2% Good 313 874 13% Moo	derate Increase urban							
<u>Cooper's Hawk</u> 1.4% 2.8% Good 165 233 7% Stal	able							
<u>Downy Woodpecker</u> 1.2% 0.8% Good 866 2977 35% Moo	derate Increase							
<u>Eastern Phoebe</u> 4.3% 2.5% Good 199 351 8% Mod	derate Increase							
Eastern Whip-poor-will very rare possible breeder								
<u>Eastern Wood-Pewee</u> 4.1% 0.7% Good 806 4743 33% Moo	derate Increase							
Great Crested Flycatcher 5.1% 0.9% Good 749 2498 30% Mod	derate Increase							
<u>Great Horned Owl</u> -6.1% 3.8% Good 63 97 3% Mod	derate Decline							
<u>Hairy Woodpecker</u> 2.6% 1.8% Good 330 606 13% Moo	derate Increase							
Hooded Warbler 1.2% 3.2% Good 82 192 3% Stal	able							
<u>House Wren</u> 0.9% 0.7% Good 1033 5037 42% Mod	derate Increase							
<u>Indigo Bunting</u> 2.8% 0.6% Good 1295 8135 53% Mod	derate Increase							
Kentucky Warbler Poor 5 7 0% Poor	orly Known							
<u>Least Flycatcher</u> -10.8% 6.3% Mod 29 39 1% Mod	derate Decline							
<u>Louisiana Waterthrush</u> Poor 7 9 0% Poo	orly Known							
Northern Flicker 1.5% 0.8% Good 974 2780 40% Mod	derate Increase							
Northern Parula Poor 7 13 0% Poor	orly Known							
Ovenbird -4.6% 2.7% Good 113 222 5% Mod	derate Decline							
Pileated Woodpecker 29.5% 9.8% Mod 54 83 2% Stro	ong Increase							
Pine Warbler rare; only recent records	G							
Prothonotary Warbler Poor 10 22 0% Poor	orly Known							
Red-bellied Woodpecker 6.3% 0.8% Good 904 4091 37% Stro	ong Increase							
Red-breasted Nuthatch Poor 2 2 0% Poor	orly Known							
Red-eyed Vireo -0.5% 0.7% Good 762 3779 31% Sta	able							
Red-headed Woodpecker 3.3% 2.9% Good 153 330 6% Moo	derate Increase							
Red-shouldered Hawk Poor 11 16 0% Poor	orly Known							
Red-tailed Hawk 0.1% 1.6% Good 456 902 19% Stal	able							
Rose-breasted Grosbeak 5.6% 1.4% Good 514 1282 21% Moo	derate Increase							
	derate Increase							
<u>Summer Tanager</u> 8.6% 8.0% Mod 31 49 1% Mod	derate Increase							
<u>Tufted Titmouse</u> -0.3% 3.4% Good 80 127 3% Stal	able							
<u> </u>	derate Increase generally silent							
	certain							
	ong Increase							
	orly Known							
	derate Increase							
Yellow-billed Cuckoo 0.8% 2.6% Good 194 241 8% Stal								
	derate Increase							
Yellow-throated Warbler Poor 7 8 0% Poor	orly Known							

Regular (and rare) BCN woodland birds - ranked by abundance

Pine Warbler

rare; only recent records

Regular	(and rare)	BCN	woodland	birds -	ranked	by abunda	nce	BIRD CONSERVATION NETWORK
Species	Trend	Error	Credibility	Points	Records	Frequency	Trend Status	NEIWORK
American Robin	1.4%	0.4%	Good	1970	19799	80%	Moderate Increase	
Indigo Bunting	2.8%	0.6%	Good	1295	8135	53%	Moderate Increase	
Black-capped Chickadee	-1.4%	0.8%	Good	1004	5320	41%	Moderate Decline	
House Wren	0.9%	0.7%	Good	1033	5037	42%	Moderate Increase	
Eastern Wood-Pewee	4.1%	0.7%	Good	806	4743	33%	Moderate Increase	
Red-bellied Woodpecker	6.3%	0.8%	Good	904	4091	37%	Strong Increase	compare Red-headed Woodpecker
Red-eyed Vireo	-0.5%	0.7%	Good	762	3779	31%	Stable	compare Yellow-throated Vireo
White-breasted Nuthatch	6.1%	0.9%	Good	676	3159	27%	Strong Increase	
Baltimore Oriole	2.8%	0.9%	Good	873	2984	35%	Moderate Increase	
Downy Woodpecker	1.2%	0.8%	Good	866	2977	35%	Moderate Increase	
Northern Flicker	1.5%	0.8%	Good	974	2780	40%	Moderate Increase	
Great Crested Flycatcher	5.1%	0.9%	Good	749	2498	30%	Moderate Increase	
American Crow	-7.6%	1.2%	Good	585	1752	24%	Steep Decline	
Rose-breasted Grosbeak	5.6%	1.4%	Good	514	1282	21%	Moderate Increase	
Scarlet Tanager	2.9%	1.3%	Good	420	1065	17%	Moderate Increase	
Wood Thrush	2.1%	1.5%	Good	361	1029	15%	Moderate Increase	
Red-tailed Hawk	0.1%	1.6%	Good	456	902	19%	Stable	
Chimney Swift	6.8%	2.2%	Good	313	874	13%	Moderate Increase	urban
Hairy Woodpecker	2.6%	1.8%	Good	330	606	13%	Moderate Increase	
Turkey Vulture	4.2%	3.3%	Good	209	442	8%	Moderate Increase	generally silent
Eastern Phoebe	4.3%	2.5%	Good	199	351	8%	Moderate Increase	
Red-headed Woodpecker	3.3%	2.9%	Good	153	330	6%	Moderate Increase	compare Red-bellied Woodecker
Yellow-throated Vireo	5.3%	2.7%	Good	166	293	7%	Moderate Increase	compare Red-eyed Vireo
<u>Veery</u>	-2.7%	3.3%	Good	71	252	3%	Uncertain	
Yellow-billed Cuckoo	0.8%	2.6%	Good	194	241	8%	Stable	
Cooper's Hawk	1.4%	2.8%	Good	165	233	7%	Stable	
<u>Ovenbird</u>	-4.6%	2.7%	Good	113	222	5%	Moderate Decline	
Hooded Warbler	1.2%	3.2%	Good	82	192	3%	Stable	
<u>Tufted Titmouse</u>	-0.3%	3.4%	Good	80	127	3%	Stable	
Great Horned Owl	-6.1%	3.8%	Good	63	97	3%	Moderate Decline	
Pileated Woodpecker	29.5%	9.8%	Mod	54	83	2%	Strong Increase	
Acadian Flycatcher	16.9%	8.2%	Mod	34	65	1%	Strong Increase	
Summer Tanager	8.6%	8.0%	Mod	31	49	1%	Moderate Increase	
Carolina Wren	2.1%	6.1%	Mod	36	47	1%	Uncertain	
Least Flycatcher	-10.8%	6.3%	Mod	29	39	1%	Moderate Decline	
Broad-winged Hawk	-1.9%	6.4%	Mod	25	32	1%	Uncertain	
Wild Turkey				18	23	1%	Poorly Known	
Prothonotary Warbler				10	22	0%	Poorly Known	
Red-shouldered Hawk				11	16	0%	Poorly Known	
Northern Parula				7	13	0%	Poorly Known	
Barred Owl				10	11	0%	Poorly Known	
Louisiana Waterthrush				7	9	0%	Poorly Known	
Yellow-throated Warbler				7	8	0%	Poorly Known	
Cerulean Warbler				7	7	0%	Poorly Known	
Kentucky Warbler				5	7	0%	Poorly Known	
Black-and-white Warbler				3	3	0%	Poorly Known	
Brown Creeper				2	2	0%	Poorly Known	
Red-breasted Nuthatch				2	2	0%	Poorly Known	
Eastern Whip-poor-will	very rare pos	ssible b						



Woodland Birds - the 'Regulars' - sounds and mnemonics notes, pitfalls, other species to consider or rule out

Yellow-billed Cuckoo song, a single repeated "oooop" long call starts with "kowlp" (compare with Black-billed Cuckoo song, but be aware BBCU is a shrubland species and is more rare in our area)

Red-tailed Hawk learn fledgling begging call; Blue Jays mimic the adults and juveniles well

Red-bellied Woodpecker weak but loud "churrr" - "chig-chig" call; compare Red-headed Woodpecker

Hairy Woodpecker high-pitched "TWEEK" (compare with **Downy Woodpecker**, learn "kingfisher" rattle to help separate) and wicka-wicka call similar to **Northern Flicker**

Downy Woodpecker PIK call and very high-pitched rattle call/whinny(compare with Hairy Woodpecker)

Northern Flicker primary song is a repeated note similar to **Cooper's Hawk; note** TEW call; compare "wicka wicka" call to **N Cardinal** and **Hairy Woodpecker**)

E Wood-Pewee often three syllables: ascending "Pee-uh-wee repeated 2-3 times, and an answered, descending Pee-wee (compare with **E Phoebe**)

Great Crested Flycatcher "fweep" or "wheep"

Red-eyed Vireo: Mnemonic: Here I am, at the top, of the tree, see me-fairly quick, learn the Shweee raspy call also. (compare with **Yellow-throated Vireo**)

Blue Jay: Primary "Jay Jay" call, Bell or Car-alarm call (also mimics hawks and several other species)

American Crow (also learn fledgling coos and calls, and soft family 'conversation' sounds)

Black-capped Chickadee (both song and call useful)

White-breasted Nuthatch 'hank hank' (compare with Red-breasted Nuthatch)

House Wren warbly long song

European Starling (mimics many species, so watch it singing if you can)

American Robin repeated 'cheerily cheerup' compare with Rose-breasted Grosbeak

Wood Thrush 'eeolay' (also learn pit volley agitation sound)

Rose-breasted Grosbeak more melodic/complex; compare with American Robin

Baltimore Oriole: rich tones and loud whistles (compare with Orchard Oriole)

Scarlet Tanager Larry, burry, worry, hurry (2 note phrasing, repeated 4-5 times; 'chip-burr' call) compare with Summer Tanager

Indigo Bunting paired phrases: Fire fire where where here there there – learn chip notes also

Priority woodland species of conservation concern

LEVEL 1 - HIGHEST CONCERN

LEVEL 1: Red-headed Woodpecker, Cerulean Warbler, E. Whip-poor-will

LEVEL 2: Yellow-billed Cuckoo, Chimney Swift, Am. Woodcock, Wood Thrush

LEVEL 3: N. Flicker, Broad-winged Hawk, Kentucky Warbler, Prothonotary Warbler, Hooded Warbler, Acadian Flycatcher, Ovenbird, Red-shouldered Hawk, Yellow-throated Warbler

For certain species on this list, BCN's monitoring area represents a core/important breeding area, significant for sustaining the individual species' population; other BOC species listed here are currently rare or casual breeders only

