

Breeding Birds Surveys Demonstrate the Importance of Cleveland Metroparks

> Tim Krynak Area Manager-West



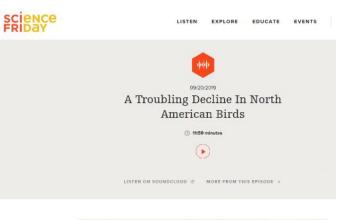
Birds in Decline!

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N America's Bird Population Has Declined by 30M Since 1970



TIME TO EXPLORE





What's Causing the Decline Of Our Bird Population?
This is a disaster caused by human behavior. To put the blame on climate change is a stretch.

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SUNDAY MORNING Home Arts Books Comm

CBS NEWS October 7, 2019, 3:17 PM

Nature up close: The massive decline of bird populations

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A group of prothonotary warbiers and one worm-eating warbier enjoy a drink, just after arriving on the Texas coast from South America during spring migration.

State Listed Species

State Listed Bird Species documented in Cleveland Metroparks

Endangered - 11

Threatened - 6

Species of Concern - 20

Special Interest – 35





Why Breeding Birds?

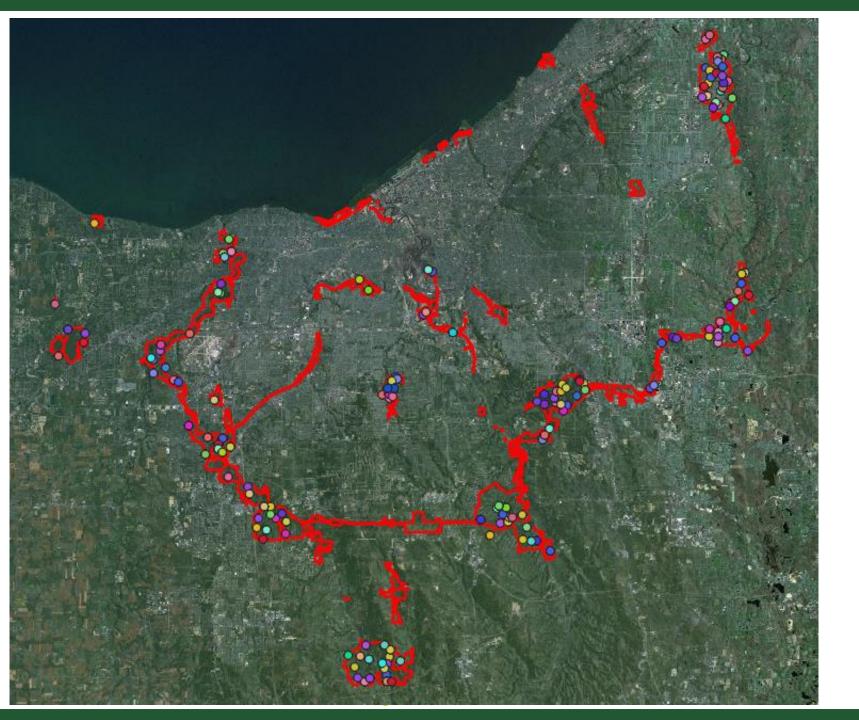
- Counts allow us to track changes in bird populations.
- If a piece of land is being developed...the likely impact of the development.
- Information on population sizes of individual species can be used to set priorities.
- Monitoring plays a role in ascertaining the success or failure —these actions might be the acquisition of land to protect particular species, the adoption of new management practices, species recovery programs, or the success of environmental policies.

Birds can be excellent barometers of wider environmental health, particularly when such assessments use summarized data from a wide range of species.

(Bibby 1999, see also Niemi et al. 1997)







164 points surveyed (2017-2019)

~11,000 records

Plant Community -PCAP

- Long-term vegetation monitoring project (400 plots)
- Identify existing composition and condition of plant communities
- Monitor how these communities change over time

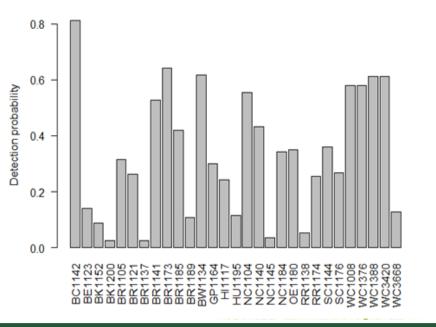
TIME TO EXPLORE



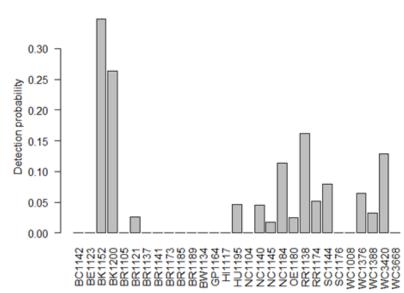
Wildlife Cameras



DEER







RDFOX

Alder flycatcher

Yellow warbler

Baltimore oriole

Redwing blackbird

Common flicker

Blue jay

Song sparrow



Common Species

Species	Detections
American Robin	585
Northern Cardinal	505
Red-eyed Vireo	501
Eastern Wood-Pewee	492
Tufted Titmouse	461
Blue Jay	460
American Goldfinch	445
Black-capped Chickadee	429
Red-bellied Woodpecker	419
Brown-headed Cowbird	359
Downy Woodpecker	357
Song Sparrow	327
White-breasted Nuthatch	312
Acadian Flycatcher	302
House Wren	285
Blue-gray Gnatcatcher	245
Gray Catbird	245
Red-winged Blackbird	227
Wood Thrush	214
Scarlet Tanager	196
Indigo Bunting	186
Chimney Swift	176
Great Crested Flycatcher	166
Cedar Waxwing	154

Cuestion	Delinte Direcent	DA
Species	Points Present	RA
Northern Cardinal	157	0.96
American Robin	155	0.95
Black-capped chickadee	155	0.95
Tufted titmouse	151	0.92
Blue jay	149	0.91
Red-bellied woodpecker	148	0.90
Red-eyed vireo	147	0.90
Downey woodpecker	146	0.89
American goldfinch	144	0.88
Eastern wood pewee	142	0.87
Brown-headed cowbird	138	0.84
White-breasted nuthatch	129	0.79
Blue-gray gnatcatcher	118	0.72
House wren	106	0.65
Song sparrow	105	0.64
Wood thrush	101	0.62
Great-crested flycatcher	96	0.59
Chimney swift	92	0.56
Gray catbird	92	0.56
Scarlet tanager	92	0.56
Acadian flycatcher	89	0.54
Indigo bunting	83	0.51
Red-winged blackbird	81	0.49
Cedar waxwing	79	0.48







Uncommon Species

Species	Detections
Red-headed woodpecker	4
Yellow-throated warbler	4
American woodcock	3
Bank swallow	3
Eastern meadowlark	3
Hermit thrush*	3
Purple martin	3
Winter wren*	3
Wood duck	3
Yellow-shafted flicker	3
Alder flycatcher	2
American kestrel	2
Purple finch*	2
Savanna sparrow	2
Spotted sandpiper	2
Black-throated green warbler	1
Black-and-white warbler	1
Blue-headed vireo*	1
Bobolink*	1
Cerulean warbler*	1
Common nighthawk*	1
Northern parula	1
Prairie Warbler	1
Red-breasted nuthatch*	1
Rufus-sided towhee	1
Virginia rail*	1











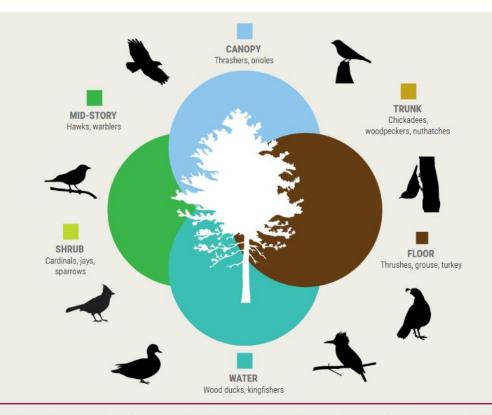






Structure





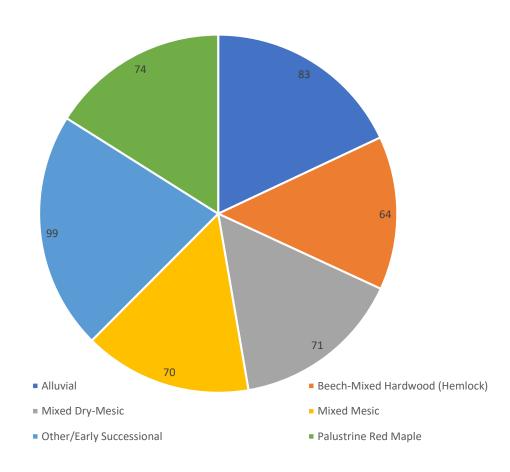
FOREST BIRO HABITAT. Each bird species may be characterized by a general habitat type. But many species use different features of a forest during different life stages, requiring a diverse set of characteristics even for an individual species. Species may be generalists during part of the yeas, such as a in winter, but specialists during there life stages, such as a individual species. Species may be generalists during other life stages, such as a uniter, but specialists during oth



Habitat Importance

Species	Alluvial	Beech-Mixed Hardwood (Hemlock)	Mixed Dry-Mesic	Mixed Mesic	Other/Early Successional	Palustrine Red Maple
REVI	93	63	68	105	68	96
ACFL	46	50	52	91	17	40
EAWP	91	55	75	90	74	94
τυτι	82	51	66	74	85	85
BLJA	81	41	62	72	104	83
RBWO	78	36	60	69	94	67
NOCA	108	42	51	62	131	94
AMRO	116	39	69	60	160	127
вссн	80	43	56	58	94	84
DOWO	66	38	41	57	78	66
AMGO	71	40	54	54	133	87
WBNU	58	36	47	53	50	59
SCTA	23	27	29	49	25	39
WOTH	37	28	30	46	30	40
внсо	70	28	35	43	110	61
HOWA	31	19	23	43	8	9
BGGN	58	33	39	41	40	30
CHSW	29	30	16	29	43	22
GCFL	29	17	23	28	41	21
HAWO	17	7	24	21	11	11
AMCR	23	13	30	18	35	22
PIWO	10	10	18	18	27	10
INBU	54	15	13	17	60	24
HOWR	67	18	36	15	83	60

of species





Habitat Structure





Good Stuff!



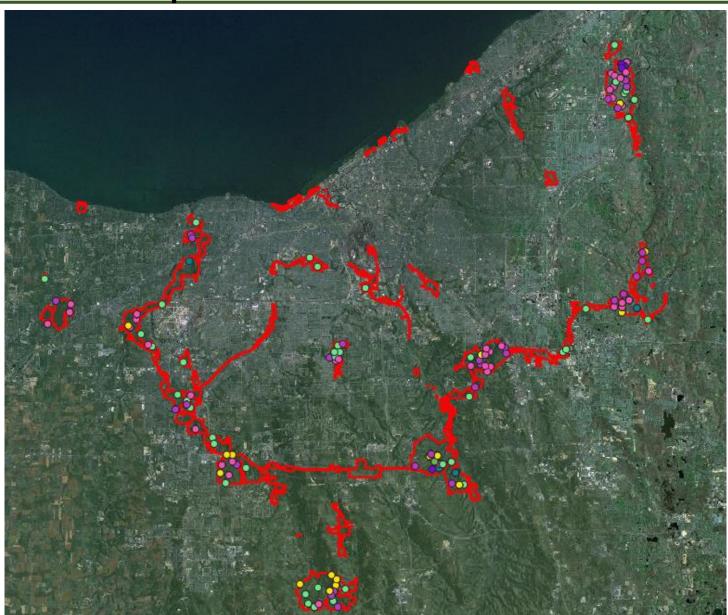


Good Habitat = "Good" Species

Species	Average of vibi_fq_score				
Hermit thrush*	86.00				
Broad-winged hawk	84.00				
Bobolink*	77.00				
Dark-eyed junco*	76.76				
Louisiana waterthrush	74.65				
Northern parula	74.05				
Winter wren*	71.25				
Acadian flycatcher	70.79				
Brown creeper*	70.29				
Cerulean warbler*	69.00				
Yellow-throated vireo	68.14				
Hooded warbler	68.10				
Yellow-throated warbler	66.73				
Scarlet tanager	64.89				
Barred owl	63.71				
Hairy woodpecker	63.46				
Yellow-shafted flicker	63.00				
Ovenbird	62.68				
American redstart	62.38				
Yellow-billed cuckoo	62.20				
White-breasted nuthatch	62.17				
Veery*	62.00				
Belted kingfisher	61.86				
Red-eyed vireo	61.65				

* Indicates state listed species





Long-term

	Numbers of Pairs			
Species	1932	1933	1934	1935
1. Red-eyed Virco. 2. Wood Thrush 3. Hooled Warbler. 4. American Redstart. 5. Oven-bird. 6. Tufted Titmouse. 7. Black-capped Chickadee. 8. Enstern Wood Pewee. 9. Scarlet Tanager. 0. Fastern Cardinal. 11. Yellow-throated Virco. 2. Acadian Flycatcher. 13. White-breasted Nuthatch. 14. Black-throated Green Warbler. 15. Bellevel Totcher. 16. Cerulean Warbler. 17. Nerthern Dawny Woodpecker. 18. Eastern Hairy Woodpecker. 19. Northern Barred Owl. 20. Eastern Phoebe. 21. Northern Barred Owl. 22. Eastern Rolin. 23. Northern Fileateil Wnodpecker. 24. Northern Fileateil Wnodpecker. 25. Northern Fileateil Wnodpecker. 26. Rose-breasted Grasbeak. 27. Bestern Rolin. 28. Northern Fileateil Wnodpecker. 29. Northern Fileateil Grasbeak. 29. Rostern Rudfed Grouze. 29. Eastern Rolin. 21. Juisiana Water Thrush. 22. Rostern Rolin. 23. Rostheasted Grasbeak. 24. Northern F	25 17 15 11 7 6 6 5 -1 3 3 3 3 3 3 3 3 3 3 3 3 3	36 25 15 17 18 8 5 7 6 5 	35 22 16 5 16 6 3 7 16 5 7 6 4 5 7 6 4 5 7 6 4 5 7 10 5 7 10 5 7 10 5 7 10 5 7 10 5 7 10 10 6 3 1 7 10 10 6 5 7 7 10 10 6 5 7 7 10 10 6 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 5 7 7 10 10 10 5 7 7 10 10 5 7 7 10 10 10 10 10 10 10 10 10 10 10 10 10	30 1-1 9 19 8 7 2 - - - - - - - - - - - - -
Total pairs	136	174	176 352	13-1 268
Pairs per acre	2.0 4.9	2.6.	2.7	2.

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Species (2017-2019)	Detections
Acadian Flycatcher ACFL	(8)
American Goldfinch AMGO	2
American Robin AMRO	5
Belted Kingfisher BEKI	1
Black-capped Chickadee BCCH	3
Blue Jay BLJA	3
Blue-gray Gnatcatcher BGGN	7
Carolina Wren CARW	1
Chimney Swift CHSW	1
Chipping Sparrow CHSP	2
Common Grackle COGR	1
Cooper's Hawk COHA	2
Downy Woodpecker DOWO	3
astern Wood-Pewee EAWP	8
ireat Crested Flycatcher GCFL	1
lairy Woodpecker HAWO	1
looded Warbler HOWA	1
Northern Cardinal NOCA	3
Red-bellied Woodpecker RBWO	(5)
Red-eyed Vireo REVI	8
Red-shouldered Hawk RSHA	1
Red-tailed Hawk RTHA	1
Ruby-throated Hummingbird RTHU	1
Scarlet Tanager SCTA	3
Fufted Titmouse TUTI	6
White-breasted Nuthatch WBNU	4
Total	82





Resource Management





Next Steps









- Complete remaining 47 points
- Focus on forest management locations
- Increase quality habitat for common & declining species