

Change is in the Air

What's the Same & What's New in WBBA II



Ryan Brady
WBBA II Science Coordinator
Wisconsin DNR



Wisconsin Bird Conservation Initiative



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Wisconsin Breeding Bird Atlas II



ABOUT THE ATLAS

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JOIN THE FLOCK!

Sign-up to help us on WBBA II

TRAINING EVENTS

Attend a session to learn about the atlas

KICKOFF MEETING

February 27-March 1 - Wausau

SPONSOR-A-SPECIES

About the Atlas

Conserve Wisconsin birds by joining our bird survey

Birds are an essential part of Wisconsin's culture and ecology. Yet many species face grave threats from habitat loss, climate change, and other human-caused pressures and nearly one-third are imperiled or will be without intervention. To conserve them, we need a current understanding of birds that rely on Wisconsin to breed and raise their young. Wisconsin Breeding Bird Atlas II mobilizes volunteers across the state to accomplish this — we need your help to document which birds are breeding in your area!



What is the Atlas?

The Wisconsin Breeding Bird Atlas II is a comprehensive field survey that documents the



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Welcome to Wisconsin Breeding Bird Atlas II

Birding in the 21st Century.



WISCONSIN
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News and Features

[Understanding when to use the Atlas Portal vs. the Wisconsin eBird Portal](#)

25 February, 2015

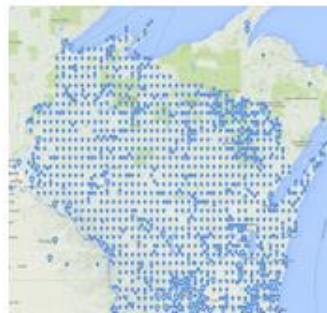
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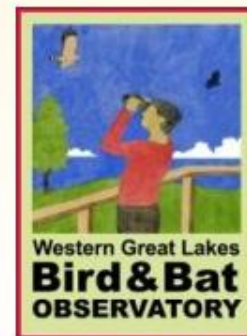
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22 January, 2015

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WISCONSIN
DEPT. OF NATURAL RESOURCES



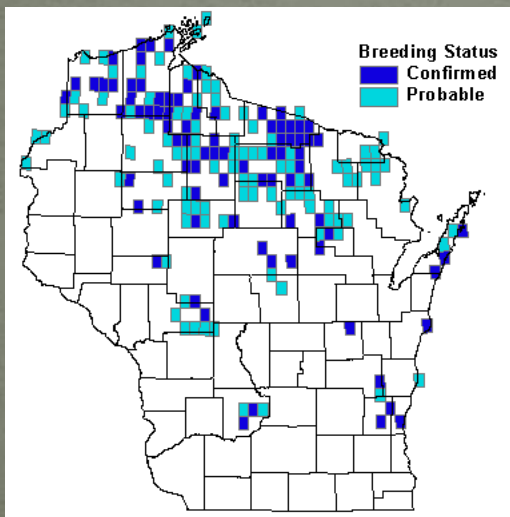
Western Great Lakes
Bird & Bat
OBSERVATORY



About This Project

The basic premise hasn't changed...

- ❖ Five years of field work: 2015 – 2019
- ❖ Determine distribution, relative abundance, and nesting phenology of breeding birds statewide *within a systematic framework*

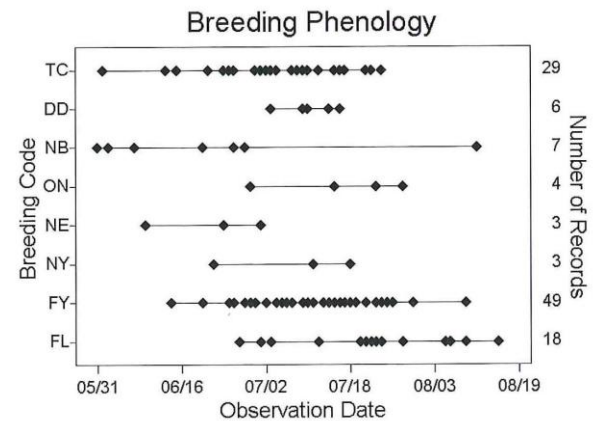


Canada Warbler (*Wilsonia canadensis*)

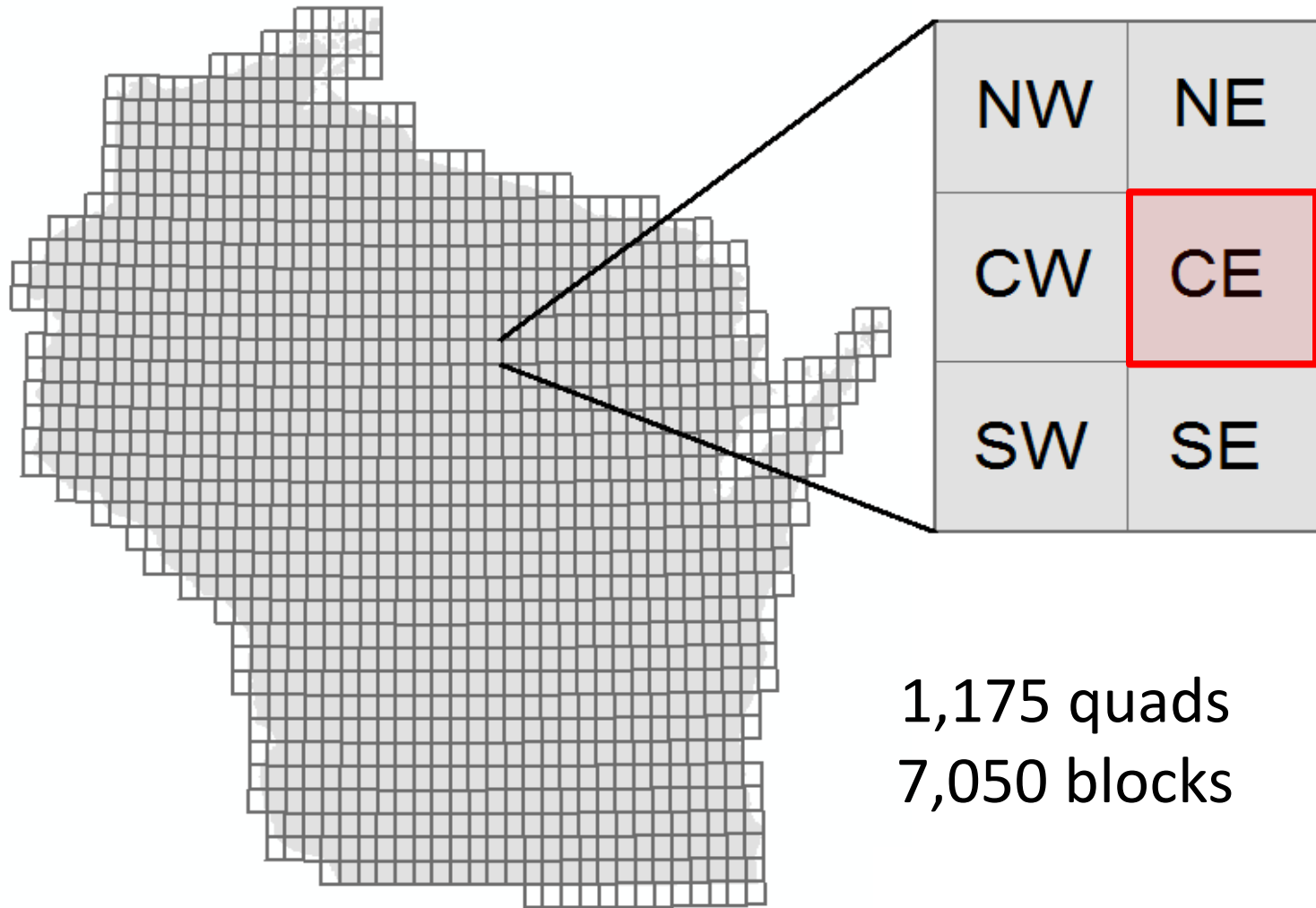


Singing male

Photographer: Dennis Malueg



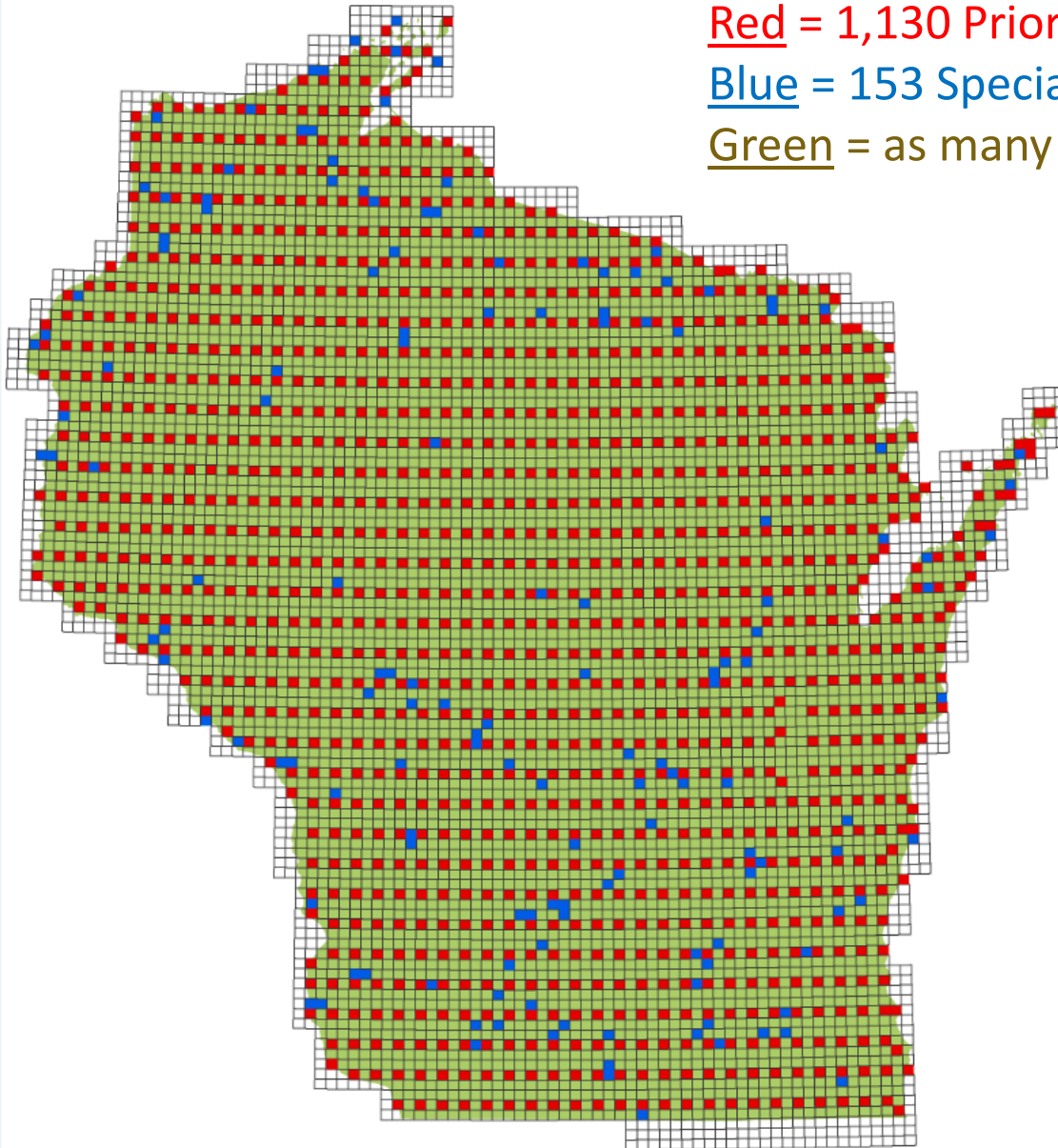
Atlas Block System



Red = 1,130 Priority Blocks

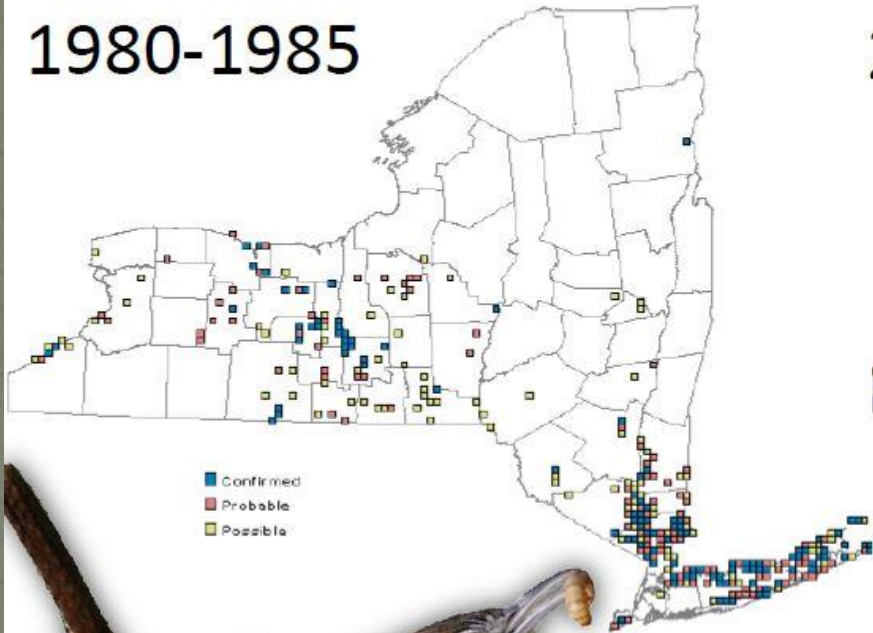
Blue = 153 Specialty Blocks

Green = as many as we can!

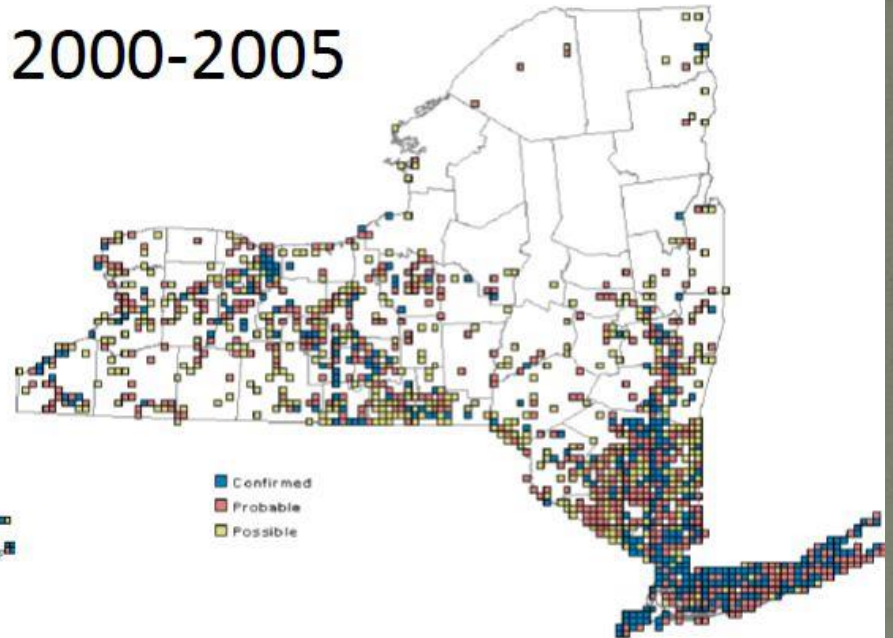


Population Trends

1980-1985



2000-2005



Carolina Wren – New York



Abundance

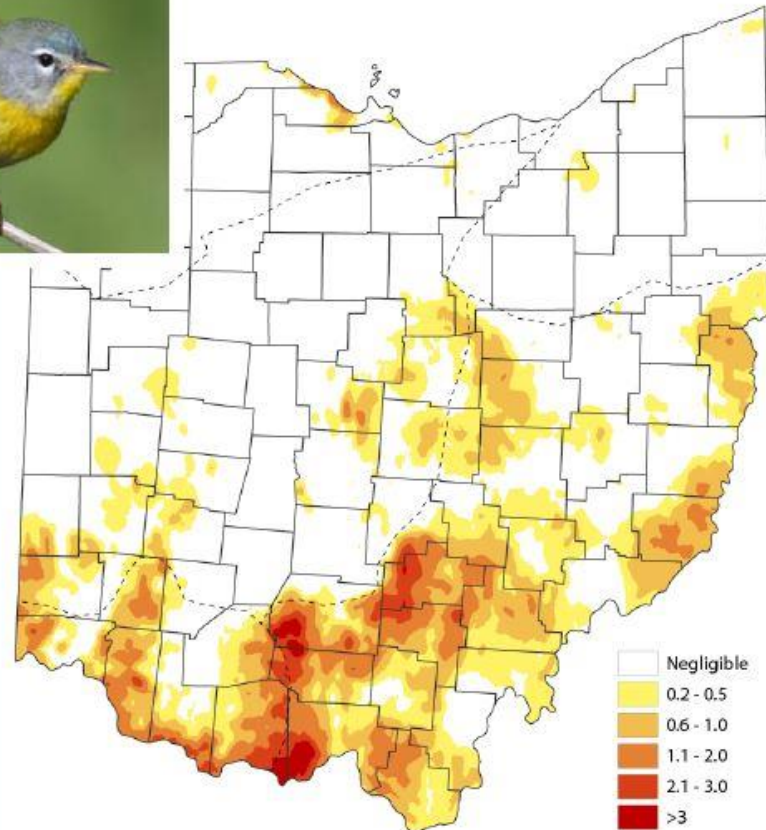
- ❖ Did not record actual numbers of birds seen in WBBA I
- ❖ Will now do so in Atlas eBird
- ❖ Will be adding point counts by professional staff

Northern Parula

photo by Dan Pancamo



Ohio BBA2



Special Efforts for Target Species

- ❖ Species that are rare, difficult-to-detect, or otherwise of priority interest



1. Raised awareness of where, when, and how to find (SSS's)
2. Suggested protocols within your block, e.g. playback
3. Surveys utilizing customized sites and protocols

Use playback wisely!



Recording Data!

WISCONSIN BREEDING BIRD ATLAS FIELD CARD

ATLAS BLOCK INFORMATION

Atlas Year 1998
 Quad Name River Falls East
 Quad Number 4409215
 Block Sector: NW NE Block worked previous year? Yes No
 (Circle correct sector) CW CE Night survey? Yes No
 SW SE Block completed? Yes No
 Total number of species in block? 76 Percent Confirmed? _____
 Name Ed Heit ATLASER
 Address N7276 County Rd. BQ
 City River Falls State WI Zip 54022
 Telephone # (715) 425 8017 w/c _____

BLOCK WORK THIS YEAR

Visit	Date M/D	Check night visits	Field Work		Traveled to and from home		
			Party Hours	Number of Observers	*Total Hrs. of all Observers	*Total Miles of all Vehicles	
Sun	6-7		7-9:15 PM	3	6	0.5	40
Mon	6-15		8-10:00 AM	1	2	0.5	38
Sat	6-20		6-9:15 PM	2	6	0.5	40
Sat	7-4		7-9:15 PM	2	4	0.5	38
Sun	7-12		6-7:00 AM	1	1	0.5	34
Sat	7-14		8-9:15 AM	2	2	0.5	36
7							
8							
9							
10							
11							
12							
TOTAL			12	12	31	3	226

* Party Hours times Number of Observers = Total Hours

HA	AB	Species	Date of highest evidence	O	PO	PR	CO	HA	AB	Species	Date of highest evidence	O	PO	PR	CO
0	2	Common Loon	COLO	6-20			PD			Ring-necked Pheasant	RIPH				
		Pied-billed Grebe	PBGR							Spruce Grouse *	SPGR				
		Red-necked Grebe	RNGR							Ruffed Grouse	RUGR	5/10			ON
		Double-c. Cormorant	DCCO							Greater Prairie-Chicken	GPC				
OLW	2	American Bittern ✓	AMBI	5/20			ON	OLW	4	Sharp-tailed Grouse	STGR	4/20			ON
		Least Bittern	LEBI							Wild Turkey	WITU				
OLW	6	Great Blue Heron	GTBH	5/20			ON			Northern Bl. White	NOBO				
		Great Egret	GREG							Yellow Rail *	YERA				
		Snowy Egret	SNEG							King Rail *	KIRA				
		Cattle Egret	CAEG							Virginia Rail	VIRA				
		Green Heron	GRHE							Sora	SORA				
		Black-cr. Night-Heron	BCNH							Common Moorhen	COMO				
		Yellow-cr. Night-Heron *	YCNH							American Coot	AMCO				
		Trumpeter Swan *	TRUS						2	Sandhill Crane ✓	SACR	3/1			FL
		Mute Swan *	MUSW							Piping Plover *	PIPL				
OLW	6	Canada Goose	CAGO	5/1			ON	OLW	3	Killdeer	KILL	5/11			ON
FLH	10	Wood Duck	WODU	5/1			ON	FL	2	Spotted Sandpiper ✓	SPSA	6/25			FL
		Green-winged Teal	AGWT							Upland Sandpiper	UPSA				
FLH	4	Am. Black Duck ✓	ABDU	5/3			ON			Common Snipe	COSN				
FLH	10	Mallard	MALL	5/1			ON	OLW	5	American Woodcock ✓	AMWO	5/1			ON
		Northern Pintail	NPTI							Wilson's Phalarope	WIPH				
FLH	5	Blue-winged Teal	BWTE	5/1			ON			Little Gull	LIGU				
		Northern Shoveler	NSHO							Ring-billed Gull	RBGU				
		Gadwall	GADW							Herring Gull	HERG				
		American Wigeon	AMWI							Caspian Tern	CATE				
		Redhead	REDH							Common Tern	COTE				
		Ring-necked Duck	RNDU							Forster's Tern	FOTE				
		Hooded Merganser	HOME							Black Tern	BLTE				
		Common Merganser	COME						OLW	15	Rock Dove	RODO	4/20		ON
		Red-breasted Merganser	RBME						OLW	2	Mourning Dove	MODO	5/1		ON
		Ruddy Duck	RUDU							Black-billed Cuckoo	BBCC				
		Turkey Vulture	TUVU	6-20	0					Yellow-billed Cuckoo ✓	YBCU				FL
FLH	2	Osprey	OSPR	6-24			FX			Eastern Screech-Owl	EASO				FL
Sun	6	Bald Eagle	BAEA	3/11			(I.E)			Great Horned Owl	GHOW				
Su	2	Northern Harrier ✓	NOHA	4/24			ON			Barred Owl	BAOW				
		Sharp-shinned Hawk	SSHA							Great Gray Owl *	GGOW				
F	2	Cooper's Hawk ✓	COHA	4/10			ON			Long-eared Owl	LECO				
		Northern Goshawk	NOGO							Short-eared Owl *	SEOW				
OLW	4	Red-shouldered Hawk ✓	RSHA	4/20			ON			Northern Saw-whet Owl	NSWO				
		Broad-winged Hawk	BWHA							Common Nighthawk	CONI	6-20	0		
F	2	Red-tailed Hawk ✓	RTHA	4/19			ON		20	Whip-poor-will	WPWI				
SUM	10	American Kestrel ✓	AMKE	4/20			ON			Chimney Swift	CHSW	6-20	0		
		Merlin *	MERL							Ruby-cr. Kingbird	RTHU	6-21			BD
		Peregrine Falcon *	PEFA							Painted Kingfisher ✓	BEKI	5/11			ON
		Gray Partridge	GRPA							Red-headed Woodpecker	RHOW				



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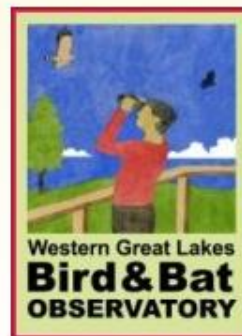
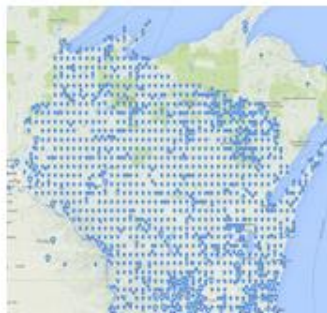
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Which eBird portal to use?

Did you have a breeding code on your checklist?

YES

Entire checklist goes into Atlas eBird portal

Wisconsin
Breeding Bird Atlas II



www.ebird.org/atlaswi

NO

Entire checklist goes into traditional Wisconsin eBird portal

Wisconsin
eBird



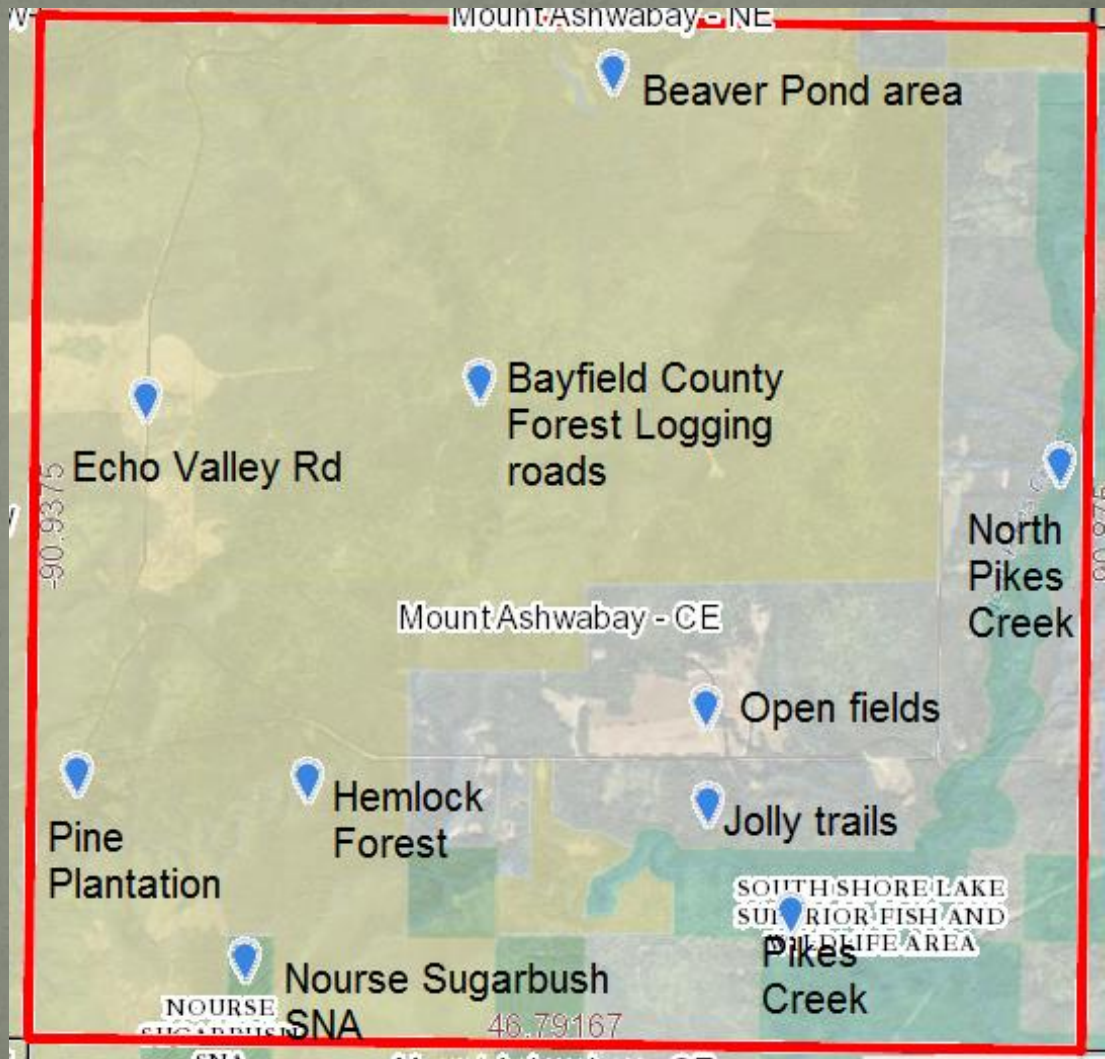
www.ebird.org/wi

eBird Implications

- ❖ Every visit is a checklist captured in space and time
- ❖ Includes numbers of individuals on each visit
- ❖ May also include highest breeding codes *per visit*
- ❖ **Allows us to record data at sub-block level = increased locational precision = better data**
- ❖ Observers can easily provide species-level comments
- ❖ Survey dates and hours automatically tabulated
- ❖ Block-level results for species, blocks, counties, etc. are available nearly in real-time
- ❖ All while fully integrating with your traditional eBird account, lists, locations, etc.

Locational Precision of Checklists

- ❖ Submit separate checklists for different property ownerships
 - ✓ state parks, wildlife, & natural areas
 - ✓ national wildlife refuges
 - ✓ county forests
 - ✓ private lands
 - ✓ Important Bird Areas
- ❖ Can also subdivide by natural features or habitats when reasonable to do so
- ❖ Some species will require exact location of observation



WBBA II Breeding Codes

OBSERVED

— Observed (no code)

F Flyover

POSSIBLE

H In appropriate Habitat

S Singing male (no migrants)

PROBABLE

S7 Singing male 7+ days apart

M Multiple (7+) singing males

P Pair in suitable habitat

T Territory defense

C Courtship display/copulation

N Visiting probable Nest site

A Agitated behavior

B Woodpecker/wren nest
Building/cavity excavation

CONFIRMED

PE Physiological
Evidence/brood patch

CN Carrying Nest material

NB Nest Building (except
woodpeckers & wrens)

DD Distraction Display

UN Used Nest (use with
caution)

ON Occupied Nest

FL Recently FLedged
young

CF Carrying Food

FY Feeding Young

FS Carrying Fecal Sac

NE Nest with Eggs

NY Nest with Young

Habitat Information

- ❖ Will NOT record habitat for all species but rather focus on a suite of priority species
- ❖ The habitat classification scheme is identical to WBBA I and can be found online
- ❖ A nested arrangement beginning with four broad



Habitat Codes and Definitions

Code	Habitat Name and Description
F	F - FOREST: Habitats dominated by trees. Trees are at least 20 ft tall, and canopy cover is at least 50%.
FU	U - Upland: Upland forests on dry or moist sites.
FUH	H - Hardwood: Upland forests in which hardwood (broadleaf) species comprise at least 95% of the tree cover.
FUHa	a - aspen: Upland hardwood forests dominated by aspens (poplars) or white (paper) birch.
FUHm	m - maple: Upland hardwood forests dominated by maples, beech, or yellow birch.
FUHo	o - oak: Upland hardwood forests dominated by oaks or hickories.
FUHp	p - plantation: Tracts of planted hardwoods, usually fruit orchards, with greater than 50% tree cover.
FUC	C - Conifer: Upland forests in which coniferous (needle-leaved) species comprise at least 75% of tree cover.
FUCh	h - hemlock: Upland coniferous forest dominated by hemlock.
FUCp	p - pine: Upland coniferous forests dominated by white, red, or jack pine. [FUCp(p) = pine plantation].
FUCs	s - spruce-fir: Upland coniferous forest dominated by white spruce and/or balsam fir. [FUCs(p) = spruce plantation].
FUM	M - Mixed: Upland mixed hardwood-coniferous forest with 5-75% conifer component.
FUMh	h - hemlock-hardwood: Upland mixed forest composed primarily of hemlock and hardwoods.
FUMp	p - pine-hardwood: Upland mixed forest composed primarily of pines and hardwoods. [FUMp(p) = pine plantation with hardwoods comprising greater than 25% of woody cover.]
FUMs	s - spruce-fir-hardwood: Upland mixed forest composed primarily of white spruce or balsam fir, and hardwoods. [FUMs(p) = spruce plantation with hardwoods comprising greater than 25% of woody cover].
FL	L - Lowland: Swamp or bog forests, on sites that are wet, or permanently or periodically flooded.
FLH	H - Hardwood: Lowland forests in which hardwood (broadleaf) species comprise at least 95% of the tree cover.
FLHn	n - northern: Lowland hardwood forests dominated by black ash or red maple, sometimes with yellow birch or alder. These are in the northern part of the state and in isolated sites southward.

Species Requiring Additional Info

- ❖ These priority (asterisked) species fall into 3 levels or categories, each requiring something slightly different
- ❖ Level 1 – high conservation priority (21 species)
 - ✓ Examples: Conn. Warb., Henslow's Sp., Yell.-head. Blackbird
 - ✓ Exact location + habitat directly in eBird comments
- ❖ Level 2 – high conservation priority or rare nesters (44)
 - ✓ Examples: Red-n. Grebe, P. Plover, Wils. Phal., Yell.-thr. Warb.
 - ✓ If Obs/Poss, eBird comments as Level 1
 - ✓ If Prob/Conf, fill out separate Priority Species Information Form
- ❖ Level 3 – WSO Review, high priority, and rare nesters (3)
 - ✓ Yellow-crowned Night-Heron, King Rail, & Yellow Rail
 - ✓ If Obs/Poss, fill out WSO Rare Bird Documentation Form
 - ✓ If Prob/Conf, fill out [Priority Species Information Form](#)

Species Requiring Additional Information

Acadian Flycatcher ²	Connecticut Warbler ¹	Least Bittern ¹	Snowy Egret ²
American Bittern ^{1,A}	Eared Grebe ²	Loggerhead Shrike ²	Spruce Grouse ²
American Wigeon ²	Eurasian Blue Tit ²	Long-eared Owl ²	Swainson's Thrush ¹
Bay-breasted Warbler ²	Forster's Tern ²	Nelson's Sparrow ²	Tennessee Warbler ²
Bell's Vireo ²	Golden-wg. Warbler ¹	Northern Bobwhite ¹	Upland Sandpiper ²
Black Tern ²	G. Black-backed Gull ²	Northern Goshawk^{1†}	Western Meadowlark ¹
Black-cr. Night-Heron ¹	Gr. Prairie-Chicken ²	Northern Pintail ²	Western Grebe ²
Black-necked Stilt ^{2,B}	Great Egret ²	Olive-sided Flycatcher ¹	Whooping Crane^{2†}
Boreal Chickadee ¹	Great Tit ²	Peregrine Falcon ^{2,C}	Wilson's Phalarope ²
Bufflehead ²	Henslow's Sparrow ¹	Philadelphia Vireo ²	Wilson's Warbler ²
Carolina Wren ²	Hooded Warbler ¹	Piping Plover^{2†}	Worm-eating Warbler ²
Caspian Tern ²	Horned Grebe ²	Purple Martin ^{1,D}	Yel.-headed Blackbird ¹
Cattle Egret ²	Kentucky Warbler ²	Red-necked Grebe ²	Yel.-cr. Night-Heron ³
Cerulean Warbler ²	King Rail ³	Red-shouldered Hawk ^{1,A}	Yellow Rail ³
Common Goldeneye ²	Kirtland's Warbler^{2†}	Ruby-crowned Kinglet ¹	Yellow-breasted Chat ²
Common Nighthawk ¹	Lark Sparrow ¹	Sharp-tailed Grouse ¹	Yel.-throated Warbler ²
Common Tern ²	Le Conte's Sparrow ¹	Short-eared Owl ²	

¹For all breeding season sightings, include exact location & habitat description in eBird.

²For probable/confirmed breeding, fill out a Priority Species Info Form. For observed/possible breeding, include exact location & habitat description in eBird.

³Fill out a WSO Rare Bird Documentation Form. If probable/confirmed breeding, also fill out a Priority Species Info Form.

^AComments only necessary if probable/confirmed breeding.

^BNo comments necessary at Horicon Marsh.

^CComments only necessary at a natural nest site (i.e. not on a building).

^DComments only necessary at a nest site.

†Hide in eBird during breeding season.

Species not listed here or on Block Summary Card require Priority Species Information Form. Check WSO Review List as they may also require a WSO Rare Bird Documentation Form.

Field Cards/Data Forms

- ❖ Field Checklist
- ❖ Quick Reference Guide
- ❖ Block Summary Card



INCIDENTAL BLOCK RECORDS (not associated with above checklists)

Species	Count	High Br. Code	Specific Location
1			
2			
3			
4			

NOTES *(please match note #'s above to numbered notes below)*

Quick Reference Guide

Wisconsin Breeding Bird Atlas II Quick Reference

REQUIRED INFO FOR ALL SURVEYS		
DATE	START/END TIME	ATLAS BLOCK NAME
SURVEY MILES		LOCATION WITHIN BLOCK
TRAVEL EFFORT BETWEEN HOME AND BLOCK (MILES, TIME)		
Separate property-specific checklists within a block are strongly encouraged.		

INFO FOR ALL OBSERVATIONS
SPECIES COUNT HIGHEST BREEDING CODE NOTE(S)

BREEDING CODES	
<i>OBSERVED</i>	
	Observed (enter in eBird, no code required)
F	Flyover
<i>POSSIBLE</i>	
H	In appropriate <u>H</u> abitat
S	<u>S</u> inging male (excluding migrants)
<i>PROBABLE</i>	
S7	<u>S</u> inging male heard <u>7</u> + days apart
M	Multiple (7+) singing males
P	Pair in suitable habitat
T	<u>T</u> erritory defense
C	<u>C</u> ourtship display/copulation
N	Visiting probable <u>N</u> est site
A	<u>A</u> gitated behavior
B	Woodpecker/wren nest <u>B</u> uilding/cavity excavation
<i>CONFIRMED</i>	
PE	<u>P</u> hysiological <u>E</u> vidence/brood patch
CN	<u>C</u> arrying <u>N</u> est material
NB	<u>N</u> est <u>B</u> uilding (except woodpeckers & wrens)
DD	<u>D</u> istraction <u>D</u> isplay
UN	<u>U</u> sed <u>N</u> est (use with caution)
ON	<u>O</u> ccupied <u>N</u> est
FL	Recently <u>F</u> ledged young
CF	<u>C</u> arrying <u>F</u> ood
FY	<u>F</u> eeding <u>Y</u> oung
FS	Carrying <u>F</u> ecal <u>S</u> ac
NE	<u>N</u> est w/ <u>E</u> ggs
NY	<u>N</u> est w/ <u>Y</u> oung

Wisconsin Breeding Bird Atlas II Quick Reference

HABITAT CODES			
F: FOREST	O: OPEN	S: SHRUB/SAVANNA	
FU: Upland forest	OU: Upland open	SU: Upland shrub	SL: Lowland shrub
FUH: Upland hardwood	OUA: Agriculture	SUH: Upland hardwood	SLH: Lowland hardwood
FUHs: aspen	OUAa: alfalfa	SUHC: cutover/burn	SLHC: cutover/burn
FUHm: maple	OUAg: grass/mix hay	SUHH: hedge	SLHH: hedge
FUHo: oak	OUAc: cultivated	SUHN: natural	SLHN: natural
FUHp: plantation	OUAp: pasture	SUHO: oldfield	SLHO: oldfield
FUC: Upland conifer	OUAr: row crops	SUHP: plantation	SLC: Lowland conifer
FUCH: hemlock	OUAs: small grains	SUC: Upland conifer	SLC: cutover/burn
FUCp: pine	OUAx: misc. ag.	SUCc: cutover/burn	SLCh: hedge
FUCs: spruce-fir	OUN: Native	SUCn: hedge	SLCn: natural
FUCs(p): spruce plantn.	OUU: Uncropped	SUCo: natural	SLCo: oldfield
FUM: Upland mixed	OL: Lowland open	SUCo: oldfield	SLM: Lowland mixed
FUMh: hemlock-hardw	OLA: Agriculture	SUCP: plantation	SLMc: cutover/burn
FUMp: pine-hardwood	OLAa: alfalfa	SUM: Upland mixed	SLMh: hedge
FUMs: spruce-fir-hw	OLAg: grass/mix hay	SUMc: cutover/burn	SLMn: natural
FUMs(p): spruce plant/hw	OLAc: cultivated	SUMH: hedge	SLMo: oldfield
FL: Lowland forest	OLAp: pasture	SUMn: natural	
FLH: Lowland hardwood	OLAr: row crops	SUMo: oldfield	
FLHn: northern	OLAs: small grains	SUMp: plantation	
FLHs: southern	OLAx: misc. ag.		
FLC: Lowland conifer	OLN: Native	U: URBAN/RURAL	
FLCc: cedar	OLNm: meadow	UJO: open space	UUC: commerc./ind.
FLCs: spruce/tamarack	OLNb: bog	UUX: misc. urban	UUR: residential
FLM: Lowland mixed	OLU: Uncropped	US: Small Town	
FLMc: cedar	OLW: Water/wetland	USC: commerc./ind.	URC: commerc./ind.
FLMs: spruce	OLWm: marsh	USR: residential	URR: residential
	OLWl: lake	USO: open space	URO: open space
	OLWr: river/stream	USX: misc. sm. town	URX: misc. rural

Species Requiring Additional Information

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Black-cr. Night-Heron ¹	Gr. Prairie-Chicken ²	Northern Pintail ²	Western Grebe ²
Black-necked Stilt ^{2B}	Great Egret ²	Olive-sided Flycatcher ¹	Whooping Crane^{2†}
Boreal Chickadee ¹	Great Tit ²	Peregrine Falcon ^{2C}	Wilson's Phalarope ²
Bufflehead ²	Henslow's Sparrow ¹	Philadelphia Vireo ²	Wilson's Warbler ²
Carolina Wren ²	Hooded Warbler ¹	Piping Plover^{2†}	Worm-eating Warbler ²
Caspian Tern ²	Horned Grebe ²	Purple Martin ^{1D}	Yel.-headed Blackbird ¹
Cattle Egret ²	Kentucky Warbler ²	Red-necked Grebe ²	Yel.-cr. Night-Heron ³
Cerulean Warbler ²	King Rail ³	Red-shouldered Hawk ^{1A}	Yellow Rail ³
Common Goldeneye ²	Kirtland's Warbler^{2†}	Ruby-crowned Kinglet ¹	Yellow-breasted Chat ²
Common Nighthawk ¹	Lark Sparrow ¹	Sharp-tailed Grouse ¹	Yel.-throated Warbler ²
Common Tern ²	Le Conte's Sparrow ¹	Short-eared Owl ²	

¹For all breeding season sightings, include exact location & habitat description in eBird.

²For probable/confirmed breeding, fill out a Priority Species Info Form. For observed/possible breeding, include exact location & habitat description in eBird.

³Fill out a WSO Rare Bird Documentation Form. If probable/confirmed breeding, also fill out a Priority Species Info Form.

^AComments only necessary if probable/confirmed breeding.

^BNo comments necessary at Horicon Marsh.

^CComments only necessary at a natural nest site (i.e. not on a building).

^DComments only necessary at a nest site.

†Hide in eBird during breeding season.

Species not listed here or on Block Summary Card require Priority Species Information Form. Check WSO Review List as they may also require a WSO Rare Bird Documentation Form.

Block Summary Card

Block Summary



Block Name: _____

Survey Date	Nocturnal Survey Hours	Daytime Survey Hours	Travel To/From Home	
			Hours	Miles

Species	High Code Date	Highest Breed. Codes		
		P	PR	CO
Canada Goose				
Mute Swan				
Trumpeter Swan				
Wood Duck				
American Black Duck				
Mallard				
Blue-winged Teal				
Green-winged Teal				
Ring-necked Duck				
Hooded Merganser				
Common Merganser				
Red-breasted Merganser				
Ruddy Duck				
Northern Bobwhite*				
Ring-necked Pheasant				
Ruffed Grouse				

PLEASE NOTE: this data form is for personal reference only -- not intended to be submitted as official atlas block data or to be used as a daily checklist data form. Use eBird for all checklist submissions.

Species	High Code Date	Highest Breed. Codes		
		P	PR	CO
Spruce Grouse				
Sharp-tailed Grouse*				
Wild Turkey				
Common Loon				
Pied-billed Grebe				
Double-crested Cormorant				
American White Pelican				
American Bittern*				
Least Bittern*				
Great Blue Heron				
Great Egret*				
Green Heron				
Black-crowned Night-Heron*				
Turkey Vulture				
Osprey				
Northern Harrier				
Sharp-shinned Hawk				
Cooper's Hawk				
Northern Goshawk*				
Bald Eagle				
Red-shouldered Hawk*				
Broad-winged Hawk				
Red-tailed Hawk				
Yellow Rail*				
King Rail*				
Virginia Rail				
Sora				
Common Gallinule				
American Coot				
Sandhill Crane				
Killdeer				
Spotted Sandpiper				
Upland Sandpiper*				
Wilson's Snipe				
American Woodcock				
Ring-billed Gull				
Herring Gull				
Caspian Tern*				

Block Name: _____ Year: _____

Species	High Code Date	Highest Breed. Codes		
		P	PR	CO
Black Tern*				
Common Tern*				
Forster's Tern*				
Rock Pigeon				
Eu. Collared-Dove				
Mourning Dove				
Yellow-billed Cuckoo				
Black-billed Cuckoo				
Eastern Screech-Owl				
Great Horned Owl				
Barred Owl				
Long-eared Owl*				
Short-eared Owl*				
Northern Saw-whet Owl				
Common Nighthawk*				
Eastern Whip-poor-will				
Chimney Swift				
Ruby-throated Hummingbird				
Belted Kingfisher				
Red-headed Woodpecker				
Red-bellied Woodpecker				
Yellow-bellied Sapsucker				
Downy Woodpecker				
Hairy Woodpecker				
Black-backed Woodpecker				
Northern Flicker				
Pileated Woodpecker				
American Kestrel				
Merlin				
Peregrine Falcon*				
Olive-sided Flycatcher*				
Eastern Wood-Pewee				
Yellow-bellied Flycatcher				
Acadian Flycatcher*				
Alder Flycatcher				
Willow Flycatcher				
Least Flycatcher				
Eastern Phoebe				

QUESTIONS?