

SPRING MIGRATION & BREEDING SEASON BIRD SURVEYS ON WETLAND RESERVE EASEMENTS IN MISSOURI 2021

Report to the Natural Resources Conservation Service, Missouri WET Biologists & WRE Landowners



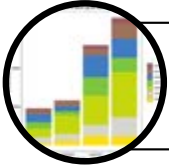


MISSOURI RIVER BIRD OBSERVATORY



CONSERVATION

To contribute to the conservation of Missouri's migratory and resident birds through scientific research, community education and outreach, and conservation policy advocacy.



SCIENCE

To gather information about avian communities and habitat use that will assist state, federal, and private natural resource managers in their efforts to implement conservation programs.



EDUCATION & OUTREACH

To provide opportunities for Missourians of all ages to learn about species and their habitats.



ADVOCACY

To advocate for sound, science-based conservation policies that benefit birds, other wildlife and environmental quality.

This report is presented in fulfillment of Award NR186424XXXXG020 with the USDA Natural Resources Conservation Service.

Citation: Ripper, D., E. Ost, H.M. McFarland, and M.J. Dodson. 2021. *Spring migration and breeding season surveys on Wetland Reserve Easements in Missouri 2021. Missouri River Bird Observatory report to the Natural Resources Conservation Service, Missouri Department of Conservation Private Lands Division, and cooperating landowners. 311 pp.*

REPORT CONTENTS

LETTER TO LANDOWNERS.....	3
2021 SURVEY SUMMARY.....	4
BACKGROUND & METHODS.....	5
CONTRIBUTIONS OF SURVEYED EASEMENTS TO BIRD POPULATIONS IN MISSOURI IN 2021.....	6
BIRD GUILDS SUPPORTED BY EASEMENTS.....	9
 2021 SITE MAPS AND BIRD LISTS FOR EASEMENTS:	
WET REGION 1 - NORTHWEST.....	11
WET REGION 2 - NORTHEAST/CENTRAL.....	84
WET REGION 3 - SOUTHEAST.....	155
WET REGION 4 - SOUTHWEST/CENTRAL.....	237

NOTE TO LANDOWNERS

Dear

Please accept our thanks for what you do to provide habitat for birds and other wildlife on your property.

The following report shows that Missouri's wetland easements provide habitat for a lot of marsh-dependent species, but also for grassland birds, forest birds and a group of birds called "aerial insectivores" – birds that forage entirely by hunting insects on the wing. These are the swifts, swallows and nighthawks, and their populations are doing badly. Your property makes a significant contribution to the conservation of all of these species.

While Missouri has over 100 bird species that nest here, we have another 200+ that only stop by during migration (known as passage migrants) or that winter here. Breeding birds are often more specific about their habitat requirements than passage migrants, so the birds that remained on your property during the breeding season will be far fewer, but help indicate the quality habitat you are providing.

Your easement also provides an important ecological service to humans: by taking on water that would otherwise add to downstream flooding of fields and towns. We are seeing more frequent, significant floods throughout Missouri, and these would be even worse were it not for the thousands of wetland easements that private landowners maintain across our watersheds.

As mentioned on the previous page, in this report we refer to properties only by their easement number so that all landowners' personal information remains private. Your easement # is

Your bird list and maps of bird locations start on page _____ of this report.

If you have any questions or comments on the surveys, your results, or Missouri bird conservation in general, please do not hesitate to contact us.

Sincerely,

Dana Ripper & Ethan Duke
Missouri River Bird Observatory Founders/Directors
dana.ripper@mrbo.org ethan.duke@mrbo.org
(660) 837-388
P.O. Box 16, Arrow Rock MO 65320

Conservation is a state of harmony between man and land.
-Aldo Leopold

2021 SURVEY SUMMARY

MRBO conducted bird surveys on 72 sites in 2021. Of these sites, 67 were surveyed in both migration and during the breeding season. Three sites were not surveyed in migration either due to flooding or at the request of the landowner due to hunting activities. Two sites were not surveyed in the breeding season due to inaccessibility caused by flooding.

Migration season surveys started the 1st of April and lasted through May 6th. An exception to this range is one late-season migration survey that occurred on May 13th. Breeding season surveys were conducted May 11th through July 6th. Typically, breeding season surveys end before July, but due to flooding, access to four sites had to occur in early July. For both survey rounds, surveys started in the southeast part of the state and ended in the northeast, following a clockwise pattern.

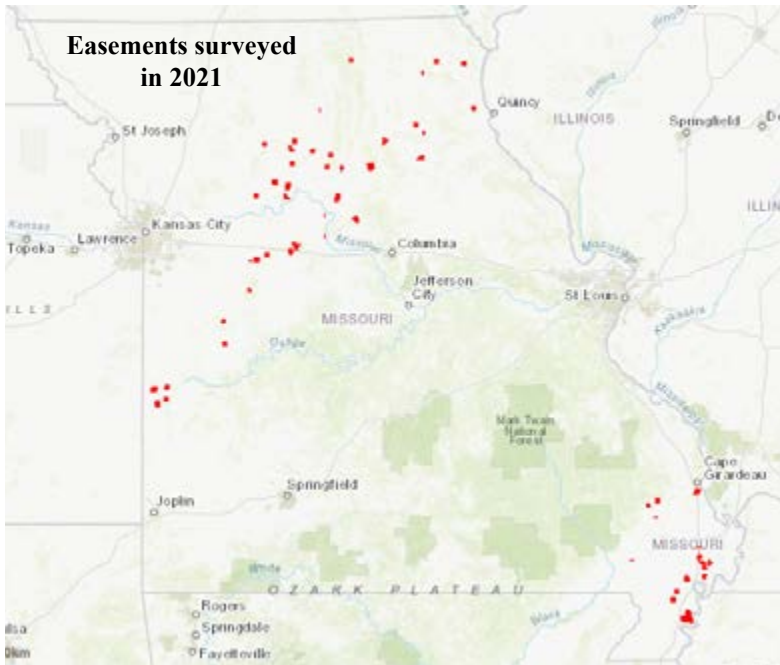
Surveyors documented close to 52,000 individual birds over the course of the season. A record count of 44,981 individual detections were made in the migration season while an average number of 6,925 detections were made in the breeding season. Higher than usual waterfowl numbers were the main driver of the record migration count. Notably, Blue-winged Teal detections (18,751) were much higher than previous survey years which averaged 2,500 – 3,000 detections. This is largely due to a single site hosting more than 11,000 Blue-winged Teal and the increased number of sites surveyed relative to other years.

Several other species were detected in much higher numbers compared to previous years, including American Coot, American White Pelican, Canada Goose, Field Sparrow, Hooded Merganser, Lesser Yellowlegs, and Northern Shoveler. Most of these species that saw significant increases in detections are wetland-obligate species.

Wetland-obligate species numbers continue to be consistent throughout the survey seasons. Additionally, waders and shorebirds were detected in similar numbers as previous years. Results from MRBO surveys in 2021 continue to illustrate the extensive benefits that wetlands enrolled in the Wetland Reserve Program provide each year for migrating and breeding birds.



BACKGROUND & METHODS



Throughout the Midwest, populations of many marsh-dwelling bird species are in decline and several are listed as species of conservation concern. Wetland habitat loss and degradation, two key factors affecting nearly 80% of migratory land and water bird species, often result from agricultural activities and development. This is one of the many reasons cooperative programs with private landowners, such as the Wetland Reserve Easement Program (WREP), are crucial tools for conservation. Sites such as high-quality WREP with high resource abundance are particularly important for waterfowl and wading birds; individuals of these guilds may remain at the same site for weeks during migration stopover.

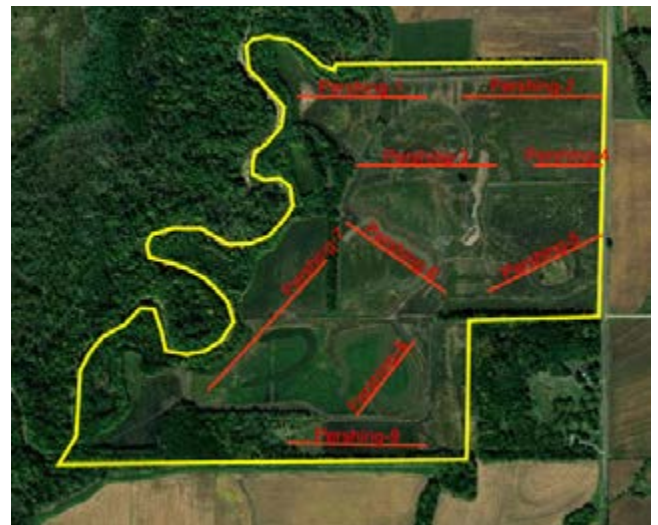
WREPs are often established for purposes of conserving game birds but clearly benefit non-game birds of many species. More than 150 species other than waterfowl use wetlands as critical wintering, breeding and migration stopover habitat. Wetland easements therefore represent a critical contribution to ecological diversity in general, while at the same time providing excellent recreational opportunities for landowners and their associates.

The Missouri River Bird Observatory (MRBO) began surveying WREP sites in 2014. Each year we survey at least 30, and often more than 60, easements throughout the state using a line-transect survey method. Observers walk each transect at approximately one mile/hour, and record all birds seen and heard in electronic data collection system (ESRI Field Maps for ArcGIS). Survey transects are systematically laid on all properties to maximize coverage of emergent marsh and mudflat habitat.

The combination of extensive on-the-ground coverage, along with the use of GIS mapping technology, result in large amounts of data in both numerical and map form. These data can provide a snapshot of birds' easement use for any given year as well as provide year-to-year comparisons if an easement is surveyed in more than one year. Whether one is assessing these data for individual easements or viewing them in a state-wide context, it is important to keep in mind that: 1) bird migration is highly variable by day, so counts can sometimes vary significantly between years on an easement and 2) climatic conditions in Missouri are also highly variable, therefore the water levels on easements can vary significantly between years and seasons, often affecting bird occupancy. The extensive network of public lands and private WREPs across the state therefore helps ensure that at least some habitat will be available to migratory and breeding birds in all years and throughout all climatic extremes.



The term *emergent marsh* refers to this type of habitat where vegetation grows out of shallow sheet-water. Emergent marsh is often bordered by gradual slopes consisting of mudflats and then upland areas where the vegetation becomes slightly different. This continuum of habitat is extremely important to about 200 bird species, plus insects, amphibians and mammals. These habitats also take on floodwaters, providing a hugely valuable ecological service to everyone downstream.



An example of a survey transect design. Transects are laid out to get ideal coverage of marsh habitat. Bottomland forest and upland areas are sometimes included in the coverage incidentally.

TOTAL CONTRIBUTIONS OF MISSOURI'S WETLAND EASEMENTS TO BIRD POPULATIONS IN 2021

Species	Migration	Breeding	Total
Acadian Flycatcher		4	4
Alder Flycatcher		15	15
American Avocet	3		3
American Bittern	55	4	59
American Coot	4728	29	4757
American Crow	132	32	164
American Golden-Plover	127		127
American Goldfinch	282	57	339
American Kestrel	2		2
American Pipit	2		2
American Redstart	1	3	4
American Robin	31	5	36
American White Pelican	941		941
American Wigeon	20		20
American Woodcock	6		6
Baird's Sandpiper	14		14
Bald Eagle	99	35	134
Baltimore Oriole	17	43	60
Bank Swallow	1	10	11
Barn Owl	2		2
Barn Swallow	133	64	197
Barred Owl	59	6	65
Bell's Vireo	1	114	115
Belted Kingfisher	45	8	53
Black Tern	5		5
Black Vulture	2		2
Black-and-white Warbler	2		2
Black-bellied Plover		1	1
Black-bellied Whistling-Duck		2	2
Black-capped Chickadee	86	31	117
Black-crowned Night-Heron	15	1	16
Black-necked Stilt	1	13	14
Blackpoll Warbler	2	2	4
Blue Grosbeak	1	7	8
Blue Jay	372	25	397
Blue-gray Gnatcatcher	92	102	194
Blue-winged Teal	18751	24	18775
Bobolink	2	4	6
Brown Thrasher	49	5	54
Brown-headed Cowbird	350	144	494
Bufflehead	1		1
Cackling Goose	2		2
Canada Goose	1059	85	1144
Carolina Chickadee	50	11	61
Carolina Wren	31	9	40
Cattle Egret		3	3
Cedar Waxwing	35	128	163

Species	Migration	Breeding	Total
Chestnut-sided Warbler	1	1	2
Chickadee Sp	13		13
Chimney Swift	12	11	23
Chipping Sparrow	9	3	12
Cinnamon Teal	1		1
Cliff Swallow	42	183	225
Common Gallinule		7	7
Common Grackle	601	212	813
Common Nighthawk		2	2
Common Yellowthroat	138	530	668
Cooper's Hawk	1		1
Crow Sp	11	3	14
Dark-eyed Junco	2		2
Dickcissel	10	851	861
Double-crested Cormorant	331	8	339
Downy Woodpecker	82	36	118
Duck Sp	167	2	169
Dunlin	5	8	13
Eastern Bluebird	4	1	5
Eastern Kingbird	25	76	101
Eastern Meadowlark	81	23	104
Eastern Phoebe	40	3	43
Eastern Towhee	62	16	78
Eastern Tufted Titmouse	119	52	171
Eastern Wood-Pewee		30	30
Eurasian Collared-Dove	2	4	6
European Starling	36	279	315
Evening Grosbeak	1		1
Field Sparrow	412	85	497
Fish Crow	135	56	191
Flycatcher Sp	1	1	2
Forster's Tern	4		4
Franklin's Gull	170		170
Gadwall	248		248
Golden-crowned Kinglet	1		1
Golden-winged Warbler	1		1
Goose Sp	1		1
Grasshopper Sparrow	2		2
Gray Catbird	20	42	62
Gray-cheeked Thrush	1		1
Great Blue Heron	162	279	441
Great Crested Flycatcher	20	57	77
Great Egret	122	417	539
Great Horned Owl	12	1	13
Greater White-fronted Goose	62		62
Greater Yellowlegs	454	8	462
Great-tailed Grackle	4	11	15

TOTAL CONTRIBUTIONS OF MISSOURI'S WETLAND EASEMENTS TO BIRD POPULATIONS IN 2021

Species	Migration	Breeding	Total
Green Heron	22	65	87
Green-winged Teal	989		989
Hairy Woodpecker	20	11	31
Henslow's Sparrow	3	2	5
Hooded Merganser	97	35	132
Horned Lark	21		21
House Sparrow	1		1
House Wren	9	11	20
Ibis Sp		1	1
Indigo Bunting	29	538	567
Kentucky Warbler		1	1
Killdeer	96	124	220
King Rail	4		4
Lark Sparrow	1	2	3
Le Conte's Sparrow	1		1
Least Bittern	1	13	14
Least Flycatcher	1	2	3
Least Sandpiper	117	12	129
Least Tern		12	12
Lesser Scaup	1		1
Lesser Yellowlegs	1175	10	1185
Lincoln's Sparrow	7	2	9
Little Blue Heron	5	22	27
Long-billed Dowitcher	37		37
Louisiana Waterthrush	11	4	15
Mallard	431	104	535
Marsh Wren	54	14	68
Mississippi Kite		3	3
Mourning Dove	106	52	158
Nashville Warbler	6		6
Nelson's Sparrow	2		2
Northern Bobwhite	62	50	112
Northern Cardinal	427	182	609
Northern Flicker	14	2	16
Northern Harrier	20		20
Northern Mockingbird	6	1	7
Northern Parula	87	29	116
Northern Pintail	29		29
Northern Rough-winged Swallow	108	3	111
Northern Shoveler	2365		2365
Northern Waterthrush	25	5	30
Orange Crowned Warbler	2		2
Orchard Oriole	8	67	75
Osprey	2		2
Owl Sp	1		1
Pectoral Sandpiper	951		951

Species	Migration	Breeding	Total
Peregrine Falcon	5		5
Philadelphia Vireo	1		1
Pied-billed Grebe	223	5	228
Pileated Woodpecker	45	19	64
Pine Siskin	1	1	2
Prothonotary Warbler	34	45	79
Purple Martin	12	11	23
Rail Sp	5		5
Red-bellied Woodpecker	98	11	109
Red-breasted Merganser	4		4
Red-eyed Vireo	2	34	36
Redhead	6		6
Red-headed Woodpecker	60	23	83
Red-shouldered Hawk	39	8	47
Red-tailed Hawk	19	4	23
Red-winged Blackbird	10		10
Ring-billed Gull	9		9
Ring-necked Duck	156		156
Ring-necked Pheasant	1		1
Rock Pigeon	15		15
Rose-breasted Grosbeak	7	10	17
Ruby-crowned Kinglet	93		93
Ruby-throated Hummingbird	1	19	20
Ruddy Duck	4		4
Rusty Blackbird	16		16
Sandhill Crane	7		7
Sandpiper Sp	462	1	463
Savannah Sparrow	208	5	213
Sedge Wren	6	3	9
Semipalmated Plover	24		24
Semipalmated Sandpiper	8	4	12
Sharp-shinned Hawk	1		1
Short-billed Dowitcher	4	2	6
Short-eared Owl	1		1
Snowy Egret	3	5	8
Solitary Sandpiper	85	5	90
Song Sparrow	161	73	234
Sora	175	1	176
Sparrow Sp	37	1	38
Spotted Sandpiper	16	4	20
Stilt Sandpiper	30		30
Summer Tanager	4	9	13
Swainson's Thrush	1		1
Swamp Sparrow	1006	1	1007
Tennessee Warbler	6	1	7
Tern Sp		16	16
Tree Swallow	1474	47	1521

TOTAL CONTRIBUTIONS OF MISSOURI'S WETLAND EASEMENTS TO BIRD POPULATIONS IN 2021

Species	Migration	Breeding	Total
Trumpeter Swan	6		6
Turkey Vulture	88	6	94
Virginia Rail	35		35
Warbler Sp	3	1	4
Warbling Vireo	69	75	144
Western Palm Warbler	26	4	30
Western Sandpiper	83		83
White-breasted Nuthatch	26		26
White-crowned Sparrow	40		40
White-eyed Vireo	12	19	31
White-faced Ibis	6	1	7
White-rumped Sandpiper	4		4
White-throated Sparrow	81		81
Wild Turkey	56	5	61
Willow Flycatcher	1	29	30
Wilson's Phalarope	20		20
Wilson's Snipe	708	2	710
Wilson's Warbler	1		1
Wood Duck	367	432	799
Wood Thrush	5	4	9
Woodpecker Sp	9		9
Yellow Rail	2		2
Yellow Warbler	32	35	67
Yellow-bellied Flycatcher		1	1
Yellow-billed Cuckoo		82	82
Yellow-breasted Chat	3	92	95
Yellow-crowned Night-Heron		5	5
Yellow-headed Blackbird	7		7
Yellow-rumped Warbler	147		147
Yellow-throated Vireo	11	7	18
Yellow-throated Warbler	11		11
Grand Total	45035	6871	51906

Easement Coverage and Bird Detections

2017
 32 easements surveyed
 188 species detected
 18,649 total detections:
 11,715 during migration
 6,934 during breeding season

2018
 62 easements surveyed
 216 species detected
 37,349 total detections:
 26,904 during migration
 10,445 during breeding season

2019
 54 easements surveyed
 191 species
 19,209 total detections
 13,929 during migration
 5,290 during breeding season

2020
 20 easements surveyed
 114 species detected
 8,089 total detections
 (Survey season curtailed in late-April due to Coronavirus pandemic)

2021
 72 easements surveyed
 205 species detected
 51,906 total detections
 44,981 during migration
 6,925 during breeding season

RAIL & BITTERN DETECTIONS 2017-2021

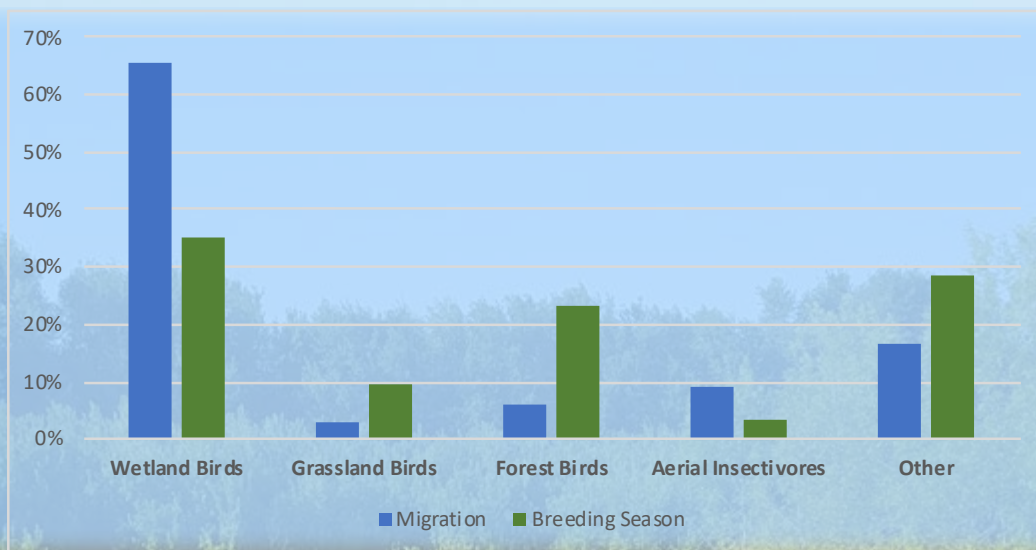
This project was originally started to document rails and bitterns, collectively known as “secretive marshbirds” for their cryptic habits. In 2014 we began recording all birds seen and heard, regardless of species, but remain interested in tracking numbers of secretive marshbirds. Most of the species in this group are considered to be of conservation concern, as their numbers appear to be declining throughout their ranges.

Row Labels	2017		2018		2019		2020	2021	
	Migration	Breeding	Migration	Breeding	Migration	Breeding	Migration	Migration	Breeding
American Bittern	15	5	61	1	71	10	37	55	4
King Rail	7	3	5	3	2	2	5	4	
Least Bittern	6	31	3	23	1	27		1	13
Rail Sp			1					5	
Sora	173	6	66	8	333		68	175	1
Virginia Rail	2		26		35		32	35	
Yellow Rail					2		2	2	
Grand Total	203	45	162	35	444	39	144	277	18

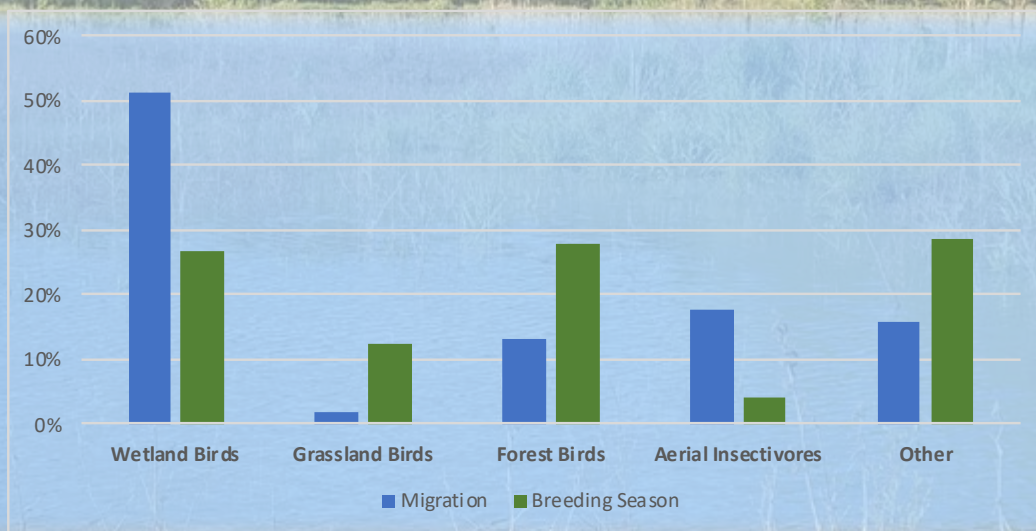
BIRDS SUPPORTED BY MISSOURI'S WETLAND EASEMENTS

While wetland easements are designed to re-establish hydrological function and natural marsh and bottomland forest habitat, they support many species of birds that are dependent on a variety of habitats. The graphs below show the proportion of birds we recorded by their ecological categories. Note that since our survey transects are specifically set up to cover emergent marsh, other habitat types are not well-represented; therefore easements probably support even more non-wetland birds than we have measured. The “Other” category includes species that regularly use a variety of different habitat types.

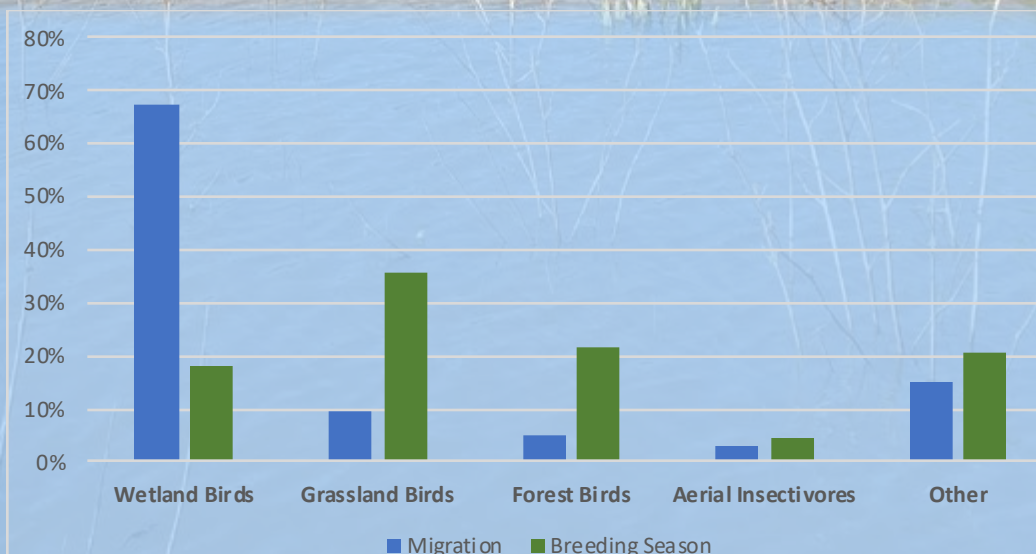
WET REGION 1



WET REGION 2



WET REGION 3



The map at left is an example of mapped data from one WRE during migration. Reports to each individual landowner include migration and breeding season maps for each property. Use these maps, along with the reference list of four-letter bird codes on page 309 and 310. (We can not fit all the species' names on a map). All mapped data are stored in ArcGIS Online and are available to landowners, WET Biologists and other NRCS and MDC staff. ArcGIS Online can be queried to show maps from multiple survey years side-by-side to facilitate understanding of the changes in bird use on a property.

WET REGION 1 OVERVIEW

Survey coverage in WET Region 1 in 2021.

<i>Easement</i>	<i>County</i>	<i>Site Acreage</i>	<i># Transects</i>	<i>Migration Visit</i>	<i>Breeding Visit</i>
66642495009C9	Linn	172	4	5/5	inaccessible
66642496009RD	Linn	255	7	4/24 & 4/25	inaccessible
666424105009HF	Carroll	228	4	4/23	6/12
666424040098P	Livingston	78	2	4/19	6/4
66642401008ZW	Chariton	431	8	4/22	6/14
66642496009NG	Chariton	108	5	4/14	7/1
66642401008ZX	Chariton	290	5	4/23	6/9
66642496009Q1	Chariton	125	6	4/14	7/1
75642499000SL	Carroll	153	4	5/1	6/15
66642496009Q2	Carroll	599	9	5/13	6/18
66642498009BL & 6664240800MZ1	Chariton	293	6	4/19	6/10
666424010091D	Chariton	165	3	4/26	6/8
666424010090F	Chariton	201	6	4/18	6/17
7564240900P3D	Linn	304	9	4/21 & 4/22	6/2 & 6/3
6664241000Z0F	Carroll	428	11	4/16	6/8
66642498009Z6	Linn	90	3	4/30	6/14
666424040099C	Carroll	237	6	4/14	6/7

66642495009C9

2021 Survey Dates

Migration: May 5th

Breeding Season: inaccessible due to high water

Acreage: 172

Species	Migration		Breeding Season	
	2016	2021	2014	2016
American Coot		4		
American Crow		1		1
American Goldfinch	3	1	6	1
Bald Eagle	2	1	2	
Baltimore Oriole	4	4		3
Bank Swallow				2
Barn Swallow	1	1	10	
Bell's Vireo	1			
Belted Kingfisher	1			
Black-billed Cuckoo			1	
Black-capped Chickadee	1	1		1
Blue Jay	3	3		2
Blue-winged Teal	7	30	12	
Bonaparte's Gull	5			
Brown Thrasher	4			2
Canada Goose	3	4	4	
Common Grackle	7			9
Common Yellowthroat	4	2	5	4
Dickcissel			2	
Downy Woodpecker				1
Duck Sp	2			
Eastern Kingbird	3	1	3	1
Eastern Meadowlark	1			1
Eastern Phoebe	2			1
Eastern Towhee				1
Eastern Tufted Titmouse	1	1	2	
Eurasian Collared-Dove				
Flycatcher Sp		1		
Forster's Tern	2			
Gray Catbird	1	4	1	1
Great Blue Heron		3	1	1
Great Crested Flycatcher	1	1	1	
Great Egret		2	5	1
Greater Yellowlegs			1	
House Wren	2	2	1	1
Indigo Bunting	7	4	3	4
Killdeer	1		3	4

Species	Migration		Breeding Season	
	2016	2021	2014	2016
Lark Sparrow				
Least Flycatcher	1			
Least Sandpiper	5		4	
Mourning Dove	5			
Northern Cardinal	2	1		
Northern Flicker	1			2
Northern Parula		1		
Northern Rough-winged Swallow			6	
Orchard Oriole	2		2	
Pectoral Sandpiper			17	
Prothonotary Warbler		1		1
Red-bellied Woodpecker				1
Red-headed Woodpecker	3	1	1	1
Rose-breasted Grosbeak			1	2
Solitary Sandpiper	1	4		
Song Sparrow		2	2	2
Spotted Sandpiper	1	1		
Swallow Sp	3			
Swamp Sparrow			2	
Tree Swallow	3	2	2	
Warbler Sp	1			
Warbling Vireo	2	1	1	
Western Palm Warbler		1		
White-throated Sparrow		2		
Wild Turkey		1		
Willow Flycatcher				
Wood Duck	11	8	1	21
Yellow Warbler	9	2		1
Yellow-billed Cuckoo				2
Yellow-breasted Chat		1		
Yellow-rumped Warbler		4		
Grand Total	119	104	102	75

Species	Migration			Breeding Season	
	2015	2016	2021	2015	2016
American Bittern				1	
American Coot	62		167	1	
American Crow		1			6
American Goldfinch	5	5			
American White Pelican		1	22		
Bald Eagle	1	2	3	4	2
Baltimore Oriole	3	1			7
Bank Swallow		37			3
Barn Swallow	4	13			
Barred Owl					2
Bell's Vireo	4	8		6	8
Belted Kingfisher				1	2
Black Tern		8			
Black-capped Chickadee			1	1	6
Blue Jay					1
Blue-gray Gnatcatcher	1		1		
Blue-winged Teal	87	42	95		
Bobolink	2				
Brown Thrasher	1				1
Brown-headed Cowbird	1		3		
Canada Goose	21	17	5		2
Caspian Tern		6			
Cliff Swallow		30			
Common Grackle	4	13		2	31
Common Tern				1	
Common Yellowthroat	20	8		10	10
Dickcissel	2				1
Double-crested Cormorant	1		60		
Downy Woodpecker			1		
Duck Sp				1	
Eastern Bluebird	2				
Eastern Kingbird	5	3		1	1
Eastern Towhee		1			1
Eastern Wood-Pewee	1				
Flycatcher Sp		1			
Gadwall			1		
Gray Catbird	8	5		6	9
Great Blue Heron	9	7	7	5	18
Great Crested Flycatcher	1			2	
Great Egret		1	1	1	1
Greater Yellowlegs			17		

	Migration			Breeding Season	
Species	2015	2016	2021	2015	2016
Green Heron		3		2	
Green-winged Teal			44		
Hooded Merganser		7	3		
House Wren	3			1	
Indigo Bunting	4	2		5	9
Killdeer		1			44
Least Sandpiper		33			
Lesser Scaup		3			
Lesser Yellowlegs	2	1			
Long-billed Dowitcher	1				
Mallard		12	26		
Marsh Wren	1	4			
Mourning Dove	1	4		2	4
Northern Cardinal	2		2	2	2
Northern Flicker	1	1		2	1
Northern Rough-winged Swallow		6			5
Northern Shoveler		3	41		
Pectoral Sandpiper		11			
Peregrine Falcon		1			
Pied-billed Grebe	1		7		
Pileated Woodpecker				1	
Prothonotary Warbler				2	2
Red-bellied Woodpecker		1	1	1	
Red-eyed Vireo				2	
Red-headed Woodpecker				3	1
Red-shouldered Hawk			2		1
Ruddy Duck			1		
Sandpiper Sp		65			
Song Sparrow		2	8	3	8
Sora	21	1	1		
Spotted Sandpiper		6			
Swallow Sp		2			
Tree Swallow	19	12	15	8	14
Turkey Vulture		1			
Warbler Sp			2		
Warbling Vireo				2	
White-breasted Nuthatch				2	
White-eyed Vireo				1	
Willow Flycatcher				8	7
Wilson's Snipe			4		
Wood Duck	6	13	2	7	49
Yellow Warbler	5	7		17	3
Yellow-billed Cuckoo				3	3
Yellow-throated Warbler			2		
Grand Total	312	412	545	117	265



Species	Migration			Breeding Season		
	2015	2018	2021	2015	2018	2021
Acadian Flycatcher					1	
American Bittern			1			
American Crow			4		4	1
American Goldfinch	2		3	1	2	
American Redstart				1		1
American Robin		1	1	1		
American White Pelican			56			
American Wigeon			2			
Bald Eagle		1			3	
Baltimore Oriole				1	2	
Barn Swallow			1			
Barred Owl			4		1	
Bell's Vireo				2	2	
Black-capped Chickadee	1		2		2	2
Blue Jay		11	11		1	1
Blue-gray Gnatcatcher				2		
Blue-winged Teal			274			
Brown Creeper		1				
Brown Thrasher		3				
Brown-headed Cowbird			3	1	2	2
Canada Goose			3	5		
Carolina Chickadee		1				
Carolina Wren		3	2		1	
Chipping Sparrow			1			
Common Grackle						1
Common Yellowthroat	3			7	7	8
Cooper's Hawk				1		
Dickcissel				1	18	
Double-crested Cormorant		1				
Downy Woodpecker			3	1		1
Eastern Bluebird		1				
Eastern Kingbird	1			2		1
Eastern Meadowlark	1		1			
Eastern Phoebe			1		1	
Eastern Tufted Titmouse	2	2	4	1	3	
Eastern Wood-Pewee				4	1	
Field Sparrow		3	3		1	
Fish Crow			5	2	1	2
Gadwall			24			
Gray Catbird				1	1	2
Great Blue Heron		2	1	9		2
Great Crested Flycatcher	1			3	1	2
Greater Yellowlegs		53	1			
Green Heron				1		
Green-winged Teal		4	32			

Species	Migration			Breeding Season		
	2015	2018	2021	2015	2018	2021
Hairy Woodpecker			3			
Hermit Thrush		1				
Horned Lark			1			
Indigo Bunting	5			9	16	12
Killdeer		1				1
Least Bittern				1		
Lesser Yellowlegs			1			
Mallard			12			
Mississippi Kite					2	1
Mourning Dove		2	1		3	
Northern Bobwhite				1	5	
Northern Cardinal		8	7	3	3	5
Northern Flicker		2	1			
Northern Parula			2		1	
Northern Pintail			7			
Northern Rough-winged Swallow			4			
Northern Shoveler			3	1		
Orchard Oriole						1
Pied-billed Grebe				5		
Pileated Woodpecker	1	3	3	5	1	
Prothonotary Warbler				7	3	1
Purple Martin				1	2	
Red-bellied Woodpecker		2	6	1	4	
Red-eyed Vireo				1		
Red-headed Woodpecker		1	1	2	1	
Red-shouldered Hawk		2	2	3	2	
Red-tailed Hawk			2			
Ruby-crowned Kinglet		6	1			
Ruby-throated Hummingbird				1		
Slate-colored Junco		6				
Solitary Sandpiper			1			
Song Sparrow	5	42	7	4	4	1
Summer Tanager				1	1	
Swamp Sparrow	1	4	16			
Tree Swallow				1		1
Turkey Vulture			5	1		
White-breasted Nuthatch		2	3	1		
White-eyed Vireo				1		
White-throated Sparrow		3	7			
Wild Turkey		3	10	2		
Wood Duck		4	5	17		1
Wood Thrush					3	
Yellow-billed Cuckoo				4	6	
Yellow-breasted Chat					1	1
Yellow-rumped Warbler			4			
Yellow-throated Vireo				1	1	
Grand Total	23	179	558	121	114	51





666424040098P

2021 Survey Dates
 Migration: April 19th
 Breeding Season: June 4th
Acreage: 78

Species	Migration			Breeding Season	
	2018	2019	2021	2018	2021
American Bittern		1			
American Coot		1	4		
American Crow				2	
American Goldfinch		3	1	1	
American Robin				1	
American White Pelican	3				
Bald Eagle	1	1			
Baltimore Oriole				1	
Bank Swallow		2			
Barn Swallow		6		8	
Barred Owl		2	1	1	
Bell's Vireo				1	2
Belted Kingfisher		1			
Black-capped Chickadee		2	2	1	2
Blue Jay	4	2	2		
Blue-gray Gnatcatcher		2			
Blue-winged Teal	2	32	38		
Brown Thrasher		1		1	
Brown-headed Cowbird		4	1	1	
Canada Goose	4	19	62		
Carolina Wren				1	
Common Grackle	1			1	
Common Yellowthroat		1		6	1
Dickcissel				5	1
Double-crested Cormorant			1		
Downy Woodpecker		1			
Eastern Kingbird					1
Eastern Phoebe		1		1	
Eastern Towhee		1			
Eastern Tufted Titmouse		1	1	1	
Eastern Wood-Pewee				1	
Field Sparrow		1		1	
Fish Crow			1		
Gray Catbird				1	1
Great Blue Heron				1	4
Great Crested Flycatcher				4	1
Greater Yellowlegs	2		4		
Hooded Merganser			11		
Horned Lark	1				
Indigo Bunting				7	2
Killdeer	2	2	1	5	

Species	Migration			Breeding Season	
	2018	2019	2021	2018	2021
Lesser Yellowlegs		9			
Long-billed Dowitcher	6				
Mallard		3			
Marsh Wren		1			
Mourning Dove	1	3		1	
Northern Bobwhite				1	
Northern Cardinal	1	6	1	3	2
Northern Mockingbird				1	
Northern Rough-winged Swallow		5		2	
Northern Shoveler			16		
Orchard Oriole				1	1
Pectoral Sandpiper	3				
Pied-billed Grebe		1			
Red-bellied Woodpecker	1			3	
Red-eyed Vireo				2	1
Red-headed Woodpecker	1			3	
Red-shouldered Hawk		1		2	
Savannah Sparrow	1	1			
Scarlet Tanager				1	
Solitary Sandpiper		3	1		
Song Sparrow	3	4	3		
Sora		2			
Swamp Sparrow	1	10			
Tree Swallow		42			
Turkey Vulture		1		1	
Unidentified Rail Species					
Warbling Vireo		1			
White-throated Sparrow		4	2		
Wild Turkey				1	
Wilson's Snipe		1			
Wood Duck		3	2		12
Wood Thrush				2	
Yellow-billed Cuckoo				2	1
Yellow-throated Vireo				1	
Grand Total	38	188	155	80	32



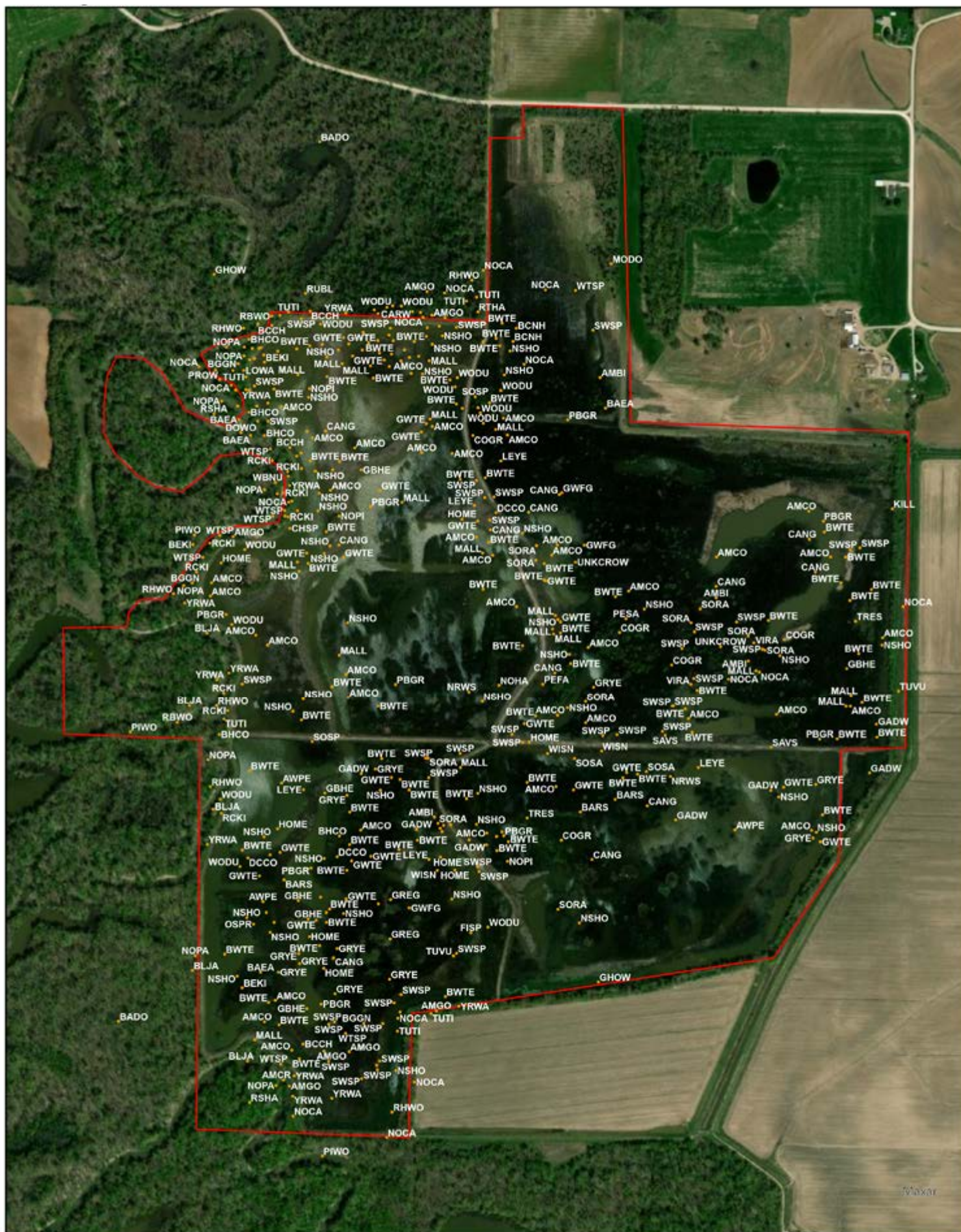


Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
American Bittern	1		20	4	4		2		4	
American Coot	3		138	19	487					
American Crow		2	1		1	6		2		
American Goldfinch	4	6		4	20	2	1		1	2
American Robin				1						
American Tree Sparrow			8							
American White Pelican					28					
American Wigeon			4		1					
Bald Eagle	1	1	2	2	4					
Baltimore Oriole						3		3		
Bank Swallow				4				1		
Barn Swallow	13		2	25	5	8	4	7	2	
Barred Owl			1		2	1		1		
Bell's Vireo						1	2	2	5	5
Belted Kingfisher					3					1
Black-capped Chickadee					9					1
Black-crowned Night-Heron				2	2		1			
Blue Jay					12	1		2		
Blue-gray Gnatcatcher	1		1	3	8				1	2
Blue-winged Teal	47	24	524	87	566					
Brown Thrasher	1		7	1		2	2	2	1	1
Brown-headed Cowbird		1	4	4	23		4	7	4	4
Canada Goose	14	7	6	18	38					
Carolina Wren				2	2					
Cedar Waxwing										3
Chimney Swift	7									
Chipping Sparrow		1		1	1					1
Cliff Swallow	12					11	17	1		
Common Grackle	5			5	13	5		5	2	7
Common Yellowthroat	13	8		4	1	12	21	27	11	8
Crow Sp					2					
Dickcissel						2	5	48		1
Double-crested Cormorant					7					
Downy Woodpecker		1			1					
Duck Sp								2		
Eastern Kingbird						4			4	5
Eastern Meadowlark	7	2		1		5	1	3		
Eastern Towhee								1		
Eastern Tufted Titmouse				1	9		1			
Eastern Wood-Pewee								1		1
Eurasian Collared-Dove										2
Field Sparrow	6	2	5	1	1	2	5	4	1	1

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Flycatcher Sp						1			1	
Gadwall					18					
Gray Catbird		1				1	6	9	8	3
Great Blue Heron	11	2		12	9	19	9	12	3	10
Great Egret		6	1	10	4	1	1			1
Great Horned Owl				2	2					
Greater White-fronted Goose				1	60					
Greater Yellowlegs	3	3	66	8	23			1		
Green Heron						1	2	3		
Green-winged Teal			67		163			1		
Hooded Merganser	1				14					13
Indigo Bunting						3	2	3	10	8
Killdeer	1	4		4	1	4	12	8	1	8
Least Bittern							1		2	
Least Sandpiper	1		1	4						
Lesser Yellowlegs	40	20	17	28	46					
Lincoln's Sparrow			5							
Long-billed Dowitcher	1									
Louisiana Waterthrush		3			1					
Mallard	4	2	41	9	53			6		9
Marsh Wren	2	3	1	1						
Mourning Dove		1	1	1	1	3	2	7	2	5
Nelson's Sparrow		2								
Northern Bobwhite		1				4		2		
Northern Cardinal	1	1	1	7	15	3	2	6	8	3
Northern Flicker			1							
Northern Harrier			5		1					
Northern Parula		1		1	9	1			1	
Northern Pintail					8					
Northern Rough-winged Swallow					4		21			
Northern Shoveler			97	3	267					
Orchard Oriole	3					3	1	4	4	1
Osprey					1					
Pectoral Sandpiper	53			2	13					
Peregrine Falcon					1					
Pied-billed Grebe			11	16	10					
Pileated Woodpecker					3			3		
Prothonotary Warbler	1				1					
Purple Martin										1
Red-bellied Woodpecker	1			2	3	1		2		
Red-eyed Vireo							1	1		
Red-headed Woodpecker				2	7			1	1	
Red-shouldered Hawk	1				2			1		
Red-tailed Hawk					1	1			1	

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Ring-necked Duck				4						
Ruby-crowned Kinglet				1	15					
Ruby-throated Hummingbird						2		1		
Ruddy Duck			1							
Rusty Blackbird			200		1					
Sandpiper Sp	5			1						
Savannah Sparrow	2	5	30	4	3					
Solitary Sandpiper	6		2	1	2					
Song Sparrow	4	5	2	12	3	3	17	15	5	8
Sora	4	6		12	11					
Sparrow Sp			33							
Spotted Sandpiper	1	2		1			1			
Swallow Sp	1					2				
Swamp Sparrow	5	7	47	17	65					
Tree Swallow	7		28	30	87					
Turkey Vulture	9		2	1	2	1				
Upland Sandpiper								1		
Virginia Rail			3		3					
Warbling Vireo	1	2					1	3	2	2
White-breasted Nuthatch					1			1		
White-eyed Vireo	1									
White-throated Sparrow	1	1		2	20					
Wild Turkey						2				
Willow Flycatcher							4	4	2	4
Wilson's Snipe	5	6	9	12	5					
Wood Duck		5	2	2	33	4	19	3	12	38
Wood Thrush								1		
Yellow Warbler	1					2				1
Yellow-billed Cuckoo						7	1	7	2	
Yellow-breasted Chat						4	1	3		2
Yellow-headed Blackbird				11						
Yellow-rumped Warbler			3	1	25					
Yellow-throated Warbler		1								
Grand Total	312	145	1400	414	2267	138	170	228	101	162





66642496009NG

2021 Survey Dates
 Migration: April 14th
 Breeding Season: July 1st
Acreage: 108

Species	Migration				Breeding Season			
	2017	2018	2019	2021	2017	2018	2019	2021
American Bittern		1						
American Coot	6	209		835				1
American Wigeon		4		2				
Bald Eagle	1	1		3		1		
Barn Swallow	2	9	3		5	10		
Barred Owl					1		1	
Blue-gray Gnatcatcher	1						1	
Blue-winged Teal	11	110	61	259		1		
Canada Goose	4	2		2		5		2
Carolina Wren						1		
Chimney Swift						1		
Cliff Swallow						10		
Common Grackle						8	1	8
Common Merganser	6							
Common Yellowthroat	7				19	8	13	6
Dickcissel					1	4	1	
Eastern Kingbird							1	
Eastern Meadowlark						1		
Eastern Tufted Titmouse	1					1		
Eastern Wood-Pewee						1	2	1
Gadwall		1		4				
Gray Catbird					1	2	2	
Great Blue Heron	1	1	2			5	7	4
Greater Yellowlegs	187	24	19	1				
Green Heron						1		
Green-winged Teal		13						
Hooded Merganser						1		
Horned Lark				1				
Hudsonian Godwit	6							
Indigo Bunting					3	6	15	2
Killdeer	7	5	3		11	8	1	
King Rail	2							
Least Bittern						1		1
Least Sandpiper			5			1		
Lesser Yellowlegs	52	1						
Mallard		3		14		1	2	
Marsh Wren	7		1	1	2			
Nelson's Sparrow		2						
Northern Bobwhite						4		
Northern Cardinal					1	2	2	
Northern Flicker						1		

66642496009NG

Species	Migration				Breeding Season			
	2017	2018	2019	2021	2017	2018	2019	2021
Northern Harrier				1				
Northern Rough-winged Swallow					1		4	
Northern Shoveler		39	25	39				
Orchard Oriole							2	
Pectoral Sandpiper	103	72	38					
Pied-billed Grebe		7	1	5				
Pileated Woodpecker	1							
Prothonotary Warbler							2	
Purple Martin					1	2		
Red-bellied Woodpecker							2	
Red-eyed Vireo								1
Red-headed Woodpecker								3
Red-tailed Hawk						1		
Redhead				4				
Ring-necked Duck				137				
Ruby-throated Hummingbird						1		2
Sandpiper Sp		10		30				
Savannah Sparrow	1		2	1				
Sedge Wren								2
Semipalmated Sandpiper						8		
Solitary Sandpiper			1					
Song Sparrow	1	1	2	4	10	7	9	1
Sora	16	1	5					
Swallow Sp		2						
Swamp Sparrow	10	2		4				
Tree Swallow		3	1	1			2	
Turkey Vulture	1					1		
Virginia Rail		1	1					
Warbling Vireo	1		1		2	1		
White-eyed Vireo					1			
Wilson's Snipe	14	13	13	2				
Wood Duck			3	2	1	11	13	12
Yellow-billed Cuckoo						2	1	
Yellow-headed Blackbird		1						
Yellow-throated Vireo					1	1	1	
Grand Total	449	538	187	1352	61	120	85	46





Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
American Bittern	2					
American Coot	25	5	12			
American Crow	3	2		1	1	1
American Goldfinch	5	4		6	2	6
American Kestrel	1					
American Robin						1
Bald Eagle	3	2	6	2		
Baltimore Oriole				5	2	1
Barn Swallow		2		2	2	1
Barred Owl	3			2		
Bell's Vireo				2	1	5
Belted Kingfisher	1				2	
Black-capped Chickadee	1		2			2
Blue Grosbeak				1		
Blue Jay	3	2		1	4	1
Blue-gray Gnatcatcher		1				
Blue-winged Teal	21	213	43			
Brown Thrasher	4	1		1		
Brown-headed Cowbird	3	9	9	1	3	2
Canada Goose	12	17	19			
Carolina Wren	1					
Cedar Waxwing						7
Chipping Sparrow		3				
Cliff Swallow				5	3	
Common Grackle	2	3		11	7	3
Common Yellowthroat				12	33	13
Downy Woodpecker				1		
Duck Sp				1		
Eastern Kingbird				3	3	2
Eastern Towhee					2	
Eastern Tufted Titmouse	3			3	1	
Eastern Wood-Pewee				1		
Field Sparrow	10	8	3	3	3	
Gadwall			2			
Grasshopper Sparrow	1					
Gray Catbird				5	3	1
Great Blue Heron	1	1		13	2	2
Great Crested Flycatcher				1		
Great Egret		1	2			
Greater Yellowlegs		4	12			
Green Heron					1	
Green-winged Teal	10	1				
Hermit Thrush	1					

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Hooded Merganser	1	4				
House Sparrow					5	
House Wren		1				
Indigo Bunting				7	9	16
Killdeer	1	2		7		
Lesser Yellowlegs	3	13	8			
Long-billed Dowitcher			3			
Louisiana Waterthrush	2					
Mallard	5	3	5		2	
Marsh Wren	5					
Mourning Dove	5	2		14	6	3
Night-heron Sp				1		
Northern Cardinal	9	3	2	7	10	8
Northern Flicker	4		1	1		
Northern Harrier	1					
Northern Parula		1		1		
Northern Shoveler	15	1				
Orchard Oriole				5	7	4
Pied-billed Grebe	6					
Red-bellied Woodpecker	7	1		3	1	
Red-headed Woodpecker				1		1
Red-shouldered Hawk			1	1		
Red-tailed Hawk	3					
Ruby-crowned Kinglet	4					
Savannah Sparrow	1					
Solitary Sandpiper		1				
Song Sparrow	5	2	1	4	4	1
Sora	2		1			
Sparrow Sp		1				
Swamp Sparrow	55	4	2			
Tree Swallow	2	5	1	2		1
Turkey Vulture		8				
Virginia Rail	5		2			
Warbling Vireo				5	10	6
Western Palm Warbler	1					
White-breasted Nuthatch	1					
White-throated Sparrow		4				
Wild Turkey	2		1	1		
Willow Flycatcher				1	1	1
Wilson's Snipe		4	5			
Wood Duck	6	7		3	3	7
Woodpecker Sp	2			1		
Yellow Warbler				5	3	3
Yellow-billed Cuckoo				5		3
Yellow-breasted Chat				5	3	6
Yellow-rumped Warbler	5					
Grand Total	274	346	143	163	139	108



66642496009Q1

2021 Survey Dates
 Migration: April 14th
 Breeding Season: July 1st
Acreage: 125

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
American Bittern		10				
American Coot	186	29	614			
American Crow				2		
American Golden-Plover	3					
Bald Eagle	1		1	1		
Baltimore Oriole					4	
Barn Swallow	14	3	7	18	10	1
Bell's Vireo				1		
Belted Kingfisher		1				1
Blue-gray Gnatcatcher				2		
Blue-winged Teal	52	26	3	1	1	
Brown Thrasher	4	2	2	2		
Brown-headed Cowbird				1		
Canada Goose	17	13	7	49		
Chimney Swift			1	7		
Cliff Swallow				15		
Common Grackle				7	4	4
Common Yellowthroat		7		6	7	1
Dickcissel				4	7	2
Duck Sp					1	
Eurasian Collared-Dove				1		
European Starling				6	40	
Gadwall	1					
Gray Catbird				3	4	1
Great Blue Heron	3	1		20	6	1
Great Egret				3		
Greater Yellowlegs	22					
Green Heron				1		
Hooded Merganser		11		6		6
Indigo Bunting				4	6	1
Killdeer	1			20	2	
Least Bittern		1	1	1	5	1
Least Sandpiper	3					
Lesser Scaup	8					
Lesser Yellowlegs	1		1			
Mallard				10	5	
Marsh Wren		3				
Mourning Dove				4	1	
Northern Bobwhite				3		
Northern Cardinal	1			1	3	1

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Northern Mockingbird				1		
Northern Rough-winged Swallow		1			9	
Northern Shoveler	4	3	11			
Orchard Oriole				1		
Pectoral Sandpiper	77			2		
Pied-billed Grebe	2				2	
Purple Martin				2		
Red-bellied Woodpecker				1		
Red-shouldered Hawk				1		
Rock Pigeon				2		
Ruby-throated Hummingbird						1
Sandpiper Sp	7			1		
Savannah Sparrow		1				
Sedge Wren					1	1
Semipalmated Plover	1					
Semipalmated Sandpiper	5			7		
Song Sparrow	5	8	1	9	5	
Sora	3	22	4	1		
Swamp Sparrow	2	4	3			
Tree Swallow	37		19		1	
Turkey Vulture		1				
Warbling Vireo				3		
White-eyed Vireo		1				
Wild Turkey				1		
Willow Flycatcher				3		
Wilson's Snipe	1	2	5			
Wood Duck		2		47	9	7
Yellow-billed Cuckoo					1	
Yellow-headed Blackbird	4					
Yellow-rumped Warbler	4					
Grand Total	469	152	680	281	134	29





75642499000SL

2021 Survey Dates
 Migration: May 1st
 Breeding Season: June 15th
Acreage: 153

	Migration				Breeding Season			
Species	2017	2018	2019	2021	2017	2018	2019	2021
Alder Flycatcher							4	
American Bittern	2	3			1			
American Coot	256	1100	55					
American Crow			2			3		
American Goldfinch	1			4		5	2	2
American Kestrel			1					
American Wigeon		3	2					
Bald Eagle	2	2	1	3		1		3
Baltimore Oriole					5	1	1	2
Barn Swallow		2	1	2	7	3	1	3
Barred Owl					2	1		
Bell's Vireo					3	3	8	4
Belted Kingfisher			1					
Black-capped Chickadee			1	3	1	1	1	1
Black-crowned Night-Heron			1	1				
Blue Jay	1		3					
Blue-gray Gnatcatcher		1			1		2	1
Blue-winged Teal	430	122	126	14			4	
Brown Thrasher	4			2	1	1	1	
Brown-headed Cowbird			2	1			4	
Canada Goose	12	9	7	10			35	
Carolina Wren					1	1		
Cedar Waxwing							3	
Common Gallinule		1						
Common Grackle						6		
Common Merganser	2							
Common Yellowthroat	1			7	15	11	11	5
Cooper's Hawk								
Dickcissel					5	15	5	5
Downy Woodpecker			2					
Duck Sp								
Eastern Bluebird					1			
Eastern Kingbird							2	
Eastern Phoebe	1	1	1					
Eastern Tufted Titmouse						1	1	
Eastern Wood-Pewee					1		1	
Franklin's Gull	1							
Gadwall	25	12	4					
Gray Catbird				2	3	4		1
Great Blue Heron	3	6	1	4	14	5	1	5

75642499000SL

Species	Migration				Breeding Season			
	2017	2018	2019	2021	2017	2018	2019	2021
Great Crested Flycatcher				1				
Great Egret	2	14		3				1
Great-tailed Grackle								
Greater Yellowlegs	6	3	5	135				
Green Heron				1	1	1	1	1
Green-winged Teal		92	10					
Hairy Woodpecker				1				
Hooded Merganser			1		2			
House Wren						3	2	1
Indigo Bunting				2	7	2	9	4
Killdeer	2	1	2	3	3	2		6
Lark Sparrow					1			
Least Bittern	1	1			1			
Least Sandpiper				1				
Lesser Yellowlegs	5	7		3				
Little Blue Heron				1				
Long-billed Dowitcher			7					
Mallard	7	6	3			5		
Marsh Wren			2					
Mourning Dove					8	3	2	
Nelson's Sparrow	1							
Northern Bobwhite					1			
Northern Cardinal	1		7	2	1	4	15	3
Northern Flicker							1	
Northern Parula	1		1	1	1		2	
Northern Pintail	2							
Northern Shoveler	126	537	8	1				
Northern Waterthrush				3				
Orchard Oriole				2	3	2	2	
Pectoral Sandpiper	96	7		1				
Pied-billed Grebe	12	19	2				2	
Pileated Woodpecker	1	1	1		4		1	
Prothonotary Warbler				1	2	2	6	1
Purple Martin			1					
Red-bellied Woodpecker			2		2	2	1	1
Red-eyed Vireo							2	1
Red-headed Woodpecker				1	1			
Red-shouldered Hawk	1		1	1	1	3	1	
Ring-necked Duck		3						
Ruby-crowned Kinglet			3					
Ruby-throated Hummingbird								1
Savannah Sparrow	5	1						
Snow Goose			1				1	

75642499000SL

	Migration				Breeding Season			
Species	2017	2018	2019	2021	2017	2018	2019	2021
Snowy Egret	2							
Solitary Sandpiper			1	3				
Song Sparrow		2		1			2	1
Sora	6	5	4	1				
Spotted Sandpiper				1				
Summer Tanager					1			
Swamp Sparrow	2	8	19	2				
Tree Swallow	28	36	13	1				
Warbling Vireo				6	6	3	4	
Western Palm Warbler				4				
Western Sandpiper				83				
White-eyed Vireo					1			
White-throated Sparrow	1	1	1					
Wilson's Snipe	5	33	29	4				
Wood Duck	1	1	6	1	10	11	3	4
Wood Thrush				1				
Woodpecker Sp						1		
Yellow Warbler				3				1
Yellow-billed Cuckoo					5	3	2	4
Yellow-breasted Chat				1		1	1	2
Yellow-rumped Warbler	1	8	10	4				
Grand Total	1056	2048	351	333	123	110	147	64



66642496009Q2

2021 Survey Dates
 Migration: May 13th
 Breeding Season: June 18th
Acreage: 599

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Acadian Flycatcher								1	1	
Alder Flycatcher							2			
American Avocet	15									
American Coot	56	14	612	12	24					
American Crow	1		1	2			3	6	3	
American Goldfinch		6		2	2			1	4	2
American Pipit			1							
American Robin			1				2		2	1
American White Pelican				62						
American Wigeon	1									
Baird's Sandpiper			5							
Bald Eagle	3	5	6	1	1		2		2	1
Baltimore Oriole	3			5	3	1	1	3	1	
Bank Swallow	9									
Barn Swallow	17	3	4	1	20	2	2	6	1	
Barred Owl		2						1		
Bell's Vireo					1		1		2	
Belted Kingfisher	2		1	1				1		
Black Tern					5		3			
Black-and-white Warbler				1						
Black-capped Chickadee	2		2	2		1	3			
Blue Jay	2	5	6	3		4		2	3	
Blue-gray Gnatcatcher	2			9			1	1	5	1
Blue-winged Teal	84	357	81	37	8			2		
Bonaparte's Gull			1							
Brown Thrasher	3		3	1	1	1	1	1	1	
Brown-headed Cowbird		5	10	3	5	1	1	13	2	2
Canada Goose	87	73	57	13	25	7	43	5	16	1
Carolina Wren			4			2	2	3	2	
Caspian Tern				1						
Cattle Egret				1						
Cedar Waxwing							23			
Chestnut-sided Warbler	1									
Chimney Swift				4				2		1
Cliff Swallow	104			2			1			
Common Grackle	8	16		9		3	10	5	23	9
Common Tern	1						1			
Common Yellowthroat	8	2		23	7	3	15	8	12	4
Dickcissel				1	4	4	6	32	7	15
Double-crested Cormorant		12	1	1					1	
Downy Woodpecker	1			2				3	4	
Duck Sp	6					3				
Dunlin	1		2							
Eastern Bluebird		1								

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Eastern Kingbird	6	2		3	1	1	8	2	2	
Eastern Meadowlark	1		1	1		3	1	2	2	
Eastern Phoebe			1			1	2	1		
Eastern Towhee			1							
Eastern Tufted Titmouse	2		1	1		2	1	5	3	1
Eastern Wood-Pewee						1	2	1	4	1
European Starling		1								1
Field Sparrow	1	4	7	1		1	3	3	2	
Fish Crow			75	6	1					5
Flycatcher Sp							1			
Forster's Tern				1						
Franklin's Gull				18						
Gadwall	5	1	10							
Gray Catbird				1	2	2				
Great Blue Heron	10	19	5	8	4	18	16	9	3	43
Great Crested Flycatcher	1			3	2	1	2	3		
Great Egret				10	1		8			88
Great Horned Owl	1							1		
Greater White-fronted Goose			320							
Greater Yellowlegs	18	4	10	4	1					
Green Heron	1								1	
Green-winged Teal			72	1						
Hairy Woodpecker				1						
Hooded Merganser				2						
House Wren				1						
Indigo Bunting					6	4	9	9	14	5
Killdeer	11	4	4	2	3	5	3	17	5	6
Lark Sparrow	2									
Least Bittern	1									
Least Flycatcher							1			
Least Sandpiper	21		4		32					
Lesser Scaup	5		24							
Lesser Yellowlegs	28	49	28	2						
Lincoln's Sparrow	3			1						
Long-billed Dowitcher	133									
Louisiana Waterthrush	3	1			1					
Mallard	9	6	12	2	7	5	9	13	1	11
Marsh Wren	21	5		37	2					
Meadowlark Sp						3				
Mourning Dove	1	1			1	1	4	3	7	3
Nashville Warbler	1									
Northern Bobwhite	5		1	1	5	2	4	10	2	1
Northern Cardinal	2	5	5	10	2	2	5	5	11	1
Northern Flicker	2	1	1	1					1	
Northern Harrier			1							

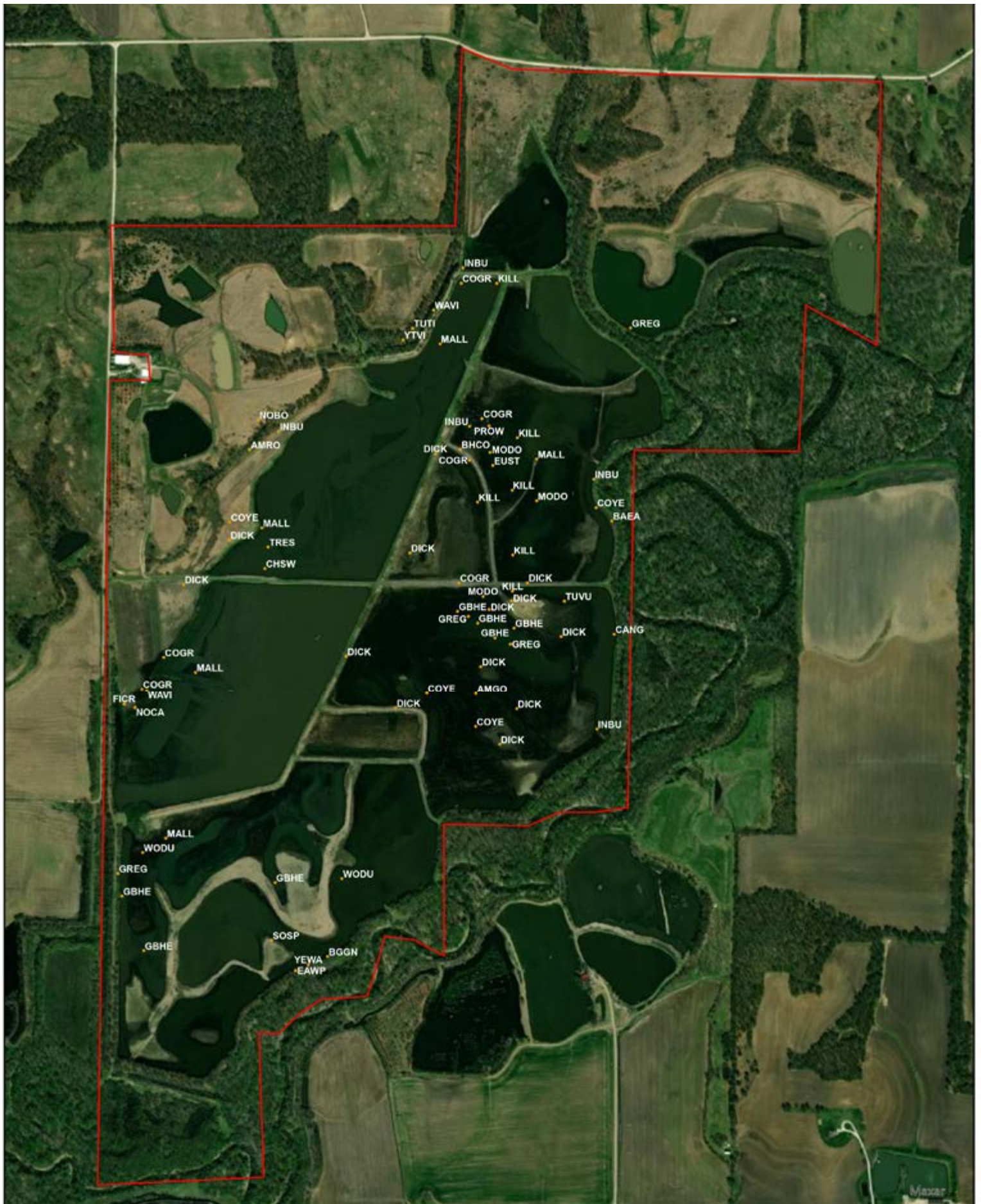
Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Northern Parula	1	1	1	3	1		3	3	2	
Northern Rough-winged Swallow			3	2						
Northern Shoveler	5	16	112		3					
Northern Waterthrush				1						
Orchard Oriole	2				2		1			
Pectoral Sandpiper	143	131	94		27			5		
Pied-billed Grebe		2	1	5	1					
Pileated Woodpecker	1	2	1	2		1	3	1		
Prothonotary Warbler	2			3	2		1	2	4	1
Purple Martin				1			1	18	1	
Red-bellied Woodpecker	3	1	1	2		1		5	2	
Red-eyed Vireo						1			1	
Red-headed Woodpecker		1		2	2		1	2		
Red-shouldered Hawk	1			1			3	2	1	
Ring-billed Gull				1						
Ring-necked Duck		2	38							
Ross's Goose		4								
Ruby-throated Hummingbird					1					
Ruddy Duck	1		2							
Rusty Blackbird			2							
Sandpiper Sp	30		2	13	3					
Savannah Sparrow	5	17	4	3	1					
Sedge Wren	6	1			2					
Semipalmated Plover	2		1							
Semipalmated Sandpiper	2		1		6			1		
Sharp-shinned Hawk			1	1						
Solitary Sandpiper	7	8		2	8					
Song Sparrow	2	2		2		1	1	3		1
Sora	16	9	1	30	2					
Sparrow Sp	1									
Spotted Sandpiper	11	5	2	4	2					
Swainson's Thrush	1			1						
Swamp Sparrow	20	13	16	6	1					
Tennessee Warbler	1									
Tree Swallow	398	438	136	105	56		8	2	1	1
Turkey Vulture	6	2		2	3	22		7	2	1
Virginia Rail		1								
Warbling Vireo	7	5		4	8	3	2	8	11	2
Western Palm Warbler	2									
White-breasted Nuthatch				1					1	
White-crowned Sparrow		9								
White-eyed Vireo									1	
White-rumped Sandpiper								55		
White-throated Sparrow	7	49	1	34						

66642496009Q2

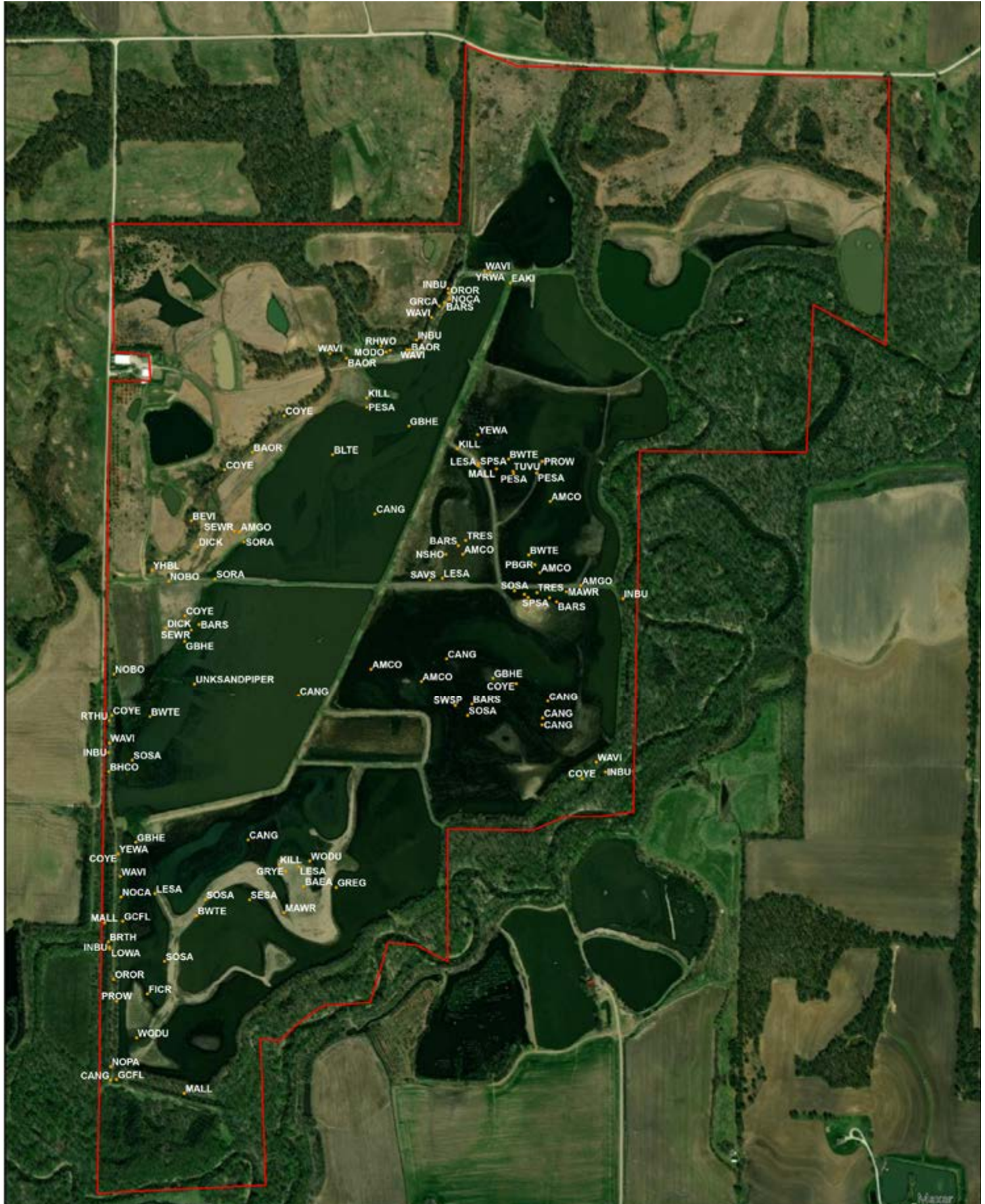
Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Wild Turkey			1					2		
Wilson's Phalarope	1									
Wilson's Snipe	1	25	15	1						
Wood Duck	7	4	9	2	4	63	30	81	22	2
Wood Thrush				1			1		1	
Yellow Warbler	2	1		2	3	1			2	1
Yellow-billed Cuckoo						2	4	6	5	
Yellow-breasted Chat				1				1	1	
Yellow-crowned Night-Heron									1	
Yellow-headed Blackbird					1					
Yellow-rumped Warbler	2	33	1	9	1					
Yellow-throated Vireo				1				3	4	1
Grand Total	1407	1386	1827	565	317	179	261	387	213	213



Photo: American White Pelicans by Howard Arndt



66642496009Q2 - MIGRATION



Species	Migration					Breeding Season			
	2016	2017	2018	2019	2021	2016	2017	2018	2021
Alder Flycatcher							3		
American Bittern		2	2	2					
American Crow	1	6	8	3	5		1	15	
American Goldfinch	7	9	1	7	3		3	5	1
American Redstart									1
American Tree Sparrow			1						
Bald Eagle	2	2		4	7	1		1	
Baltimore Oriole						1	1	2	
Barn Owl					1				
Barn Swallow	10	6	3	2				2	
Barred Owl		1	3		5		1	1	
Bell's Vireo								2	2
Belted Kingfisher			1			2	1		
Black-capped Chickadee				1	2	3	1		
Black-crowned Night-Heron					1				
Blue Jay	2	43	2	1	14	1			
Blue-gray Gnatcatcher		1	2	8		2		1	5
Blue-winged Teal	68	82	148	111	346		3		
Brown Thrasher					1		1	1	
Brown-headed Cowbird		11	8	24	9		4	2	2
Canada Goose	7	10	18	9	37	1	2	2	
Carolina Wren							1	1	
Chickadee Sp			2						
Chimney Swift								2	
Chipping Sparrow				1					
Cliff Swallow	17								
Common Grackle		5	1	3	1	7	2		
Common Yellowthroat	6	11	1	5		19	25	22	17
Dickcissel						1	15	35	18
Double-crested Cormorant		3							
Downy Woodpecker		1	1	1	1			1	
Duck Sp				2		3			
Eastern Kingbird		1				3	6	3	1
Eastern Meadowlark	1		5			2	1	5	
Eastern Phoebe					1				
Eastern Tufted Titmouse		1	3	3	4	2		3	1
Eastern Wood-Pewee						1	1	2	
Field Sparrow			2		1			1	
Fish Crow			2		12				
Gadwall			9	1					
Gray Catbird	1	1				5	13	8	3
Great Blue Heron	6	10	8	1	7	9	5	20	6
Great Crested Flycatcher								3	

Species	Migration					Breeding Season			
	2016	2017	2018	2019	2021	2016	2017	2018	2021
Great Egret		20		1			13		15
Greater Yellowlegs	5	1	8	6	42				
Green-winged Teal	3	4	3		17		2		
Hairy Woodpecker					2				
Hooded Merganser		4	2	6			1		
House Wren	1					1			
Indigo Bunting	1	1				10	11	13	11
Killdeer		1	2	2	2	2		11	
King Rail					1				
Least Sandpiper	2								
Lesser Yellowlegs	45	14	10	1	51				
Lincoln's Sparrow			2		2				
Long-billed Dowitcher		2							
Louisiana Waterthrush		2							
Mallard	3	3	6	1	6		2	2	
Marsh Wren	2	2		1			1		
Mississippi Kite							5		
Mourning Dove	1	1	1	2	3	2	2	2	2
Night-heron Sp			1						
Northern Bobwhite					1	2	1	1	
Northern Cardinal		5	6	10	5	1		3	
Northern Flicker	1	1	2				1	1	
Northern Harrier			3						
Northern Parula					3	1			
Northern Rough-winged Swallow	15		1						
Northern Shoveler			15	18	154				
Northern Waterthrush	1								
Orchard Oriole						3	8	2	2
Pectoral Sandpiper	44	10			37				
Peregrine Falcon			1						
Pied-billed Grebe		1	4	3	4				
Pileated Woodpecker		1			2				
Prothonotary Warbler	1						2	1	
Red-bellied Woodpecker			8	3	4	2	2	5	
Red-eyed Vireo						1		1	
Red-headed Woodpecker			2	5	4	4	1	1	
Red-shouldered Hawk	2	2	1		1		2	2	
Red-tailed Hawk			2		1				
Ring-necked Duck				5	1				
Ruby-crowned Kinglet			2	2	5				
Rusty Blackbird			1						
Sandpiper Sp	16	4							
Savannah Sparrow		1	2				1		
Sedge Wren	2	1							
Solitary Sandpiper	1	4		2					

66642498009BL & 6664240800MZ1

Species	Migration					Breeding Season			
	2016	2017	2018	2019	2021	2016	2017	2018	2021
Song Sparrow	8	30	16	20	33	16	14	21	15
Sora	1	5	1	10	1				
Sparrow Sp		1	1	1					
Spotted Sandpiper	7								
Swamp Sparrow	9	1	22	6	19				
Tree Swallow	307	8	7	5	19		1	1	
Turkey Vulture		3	1				1		
Virginia Rail			1						
Warbling Vireo	1			1		1		1	
White-breasted Nuthatch					1	1		1	
White-crowned Sparrow		2							
White-throated Sparrow		2	2						
Wild Turkey					1				
Willow Flycatcher						3	3	2	7
Wilson's Snipe		1	12	10	22				
Wood Duck	6	13	12	6	1	13	14	3	5
Wood Thrush								2	1
Woodpecker Sp			1		1				
Yellow Warbler	3					4	7	8	11
Yellow-billed Cuckoo						3	2	9	3
Yellow-breasted Chat								3	2
Yellow-rumped Warbler		3	2						
Yellow-throated Vireo								1	1
Grand Total	616	360	394	316	904	133	187	237	132

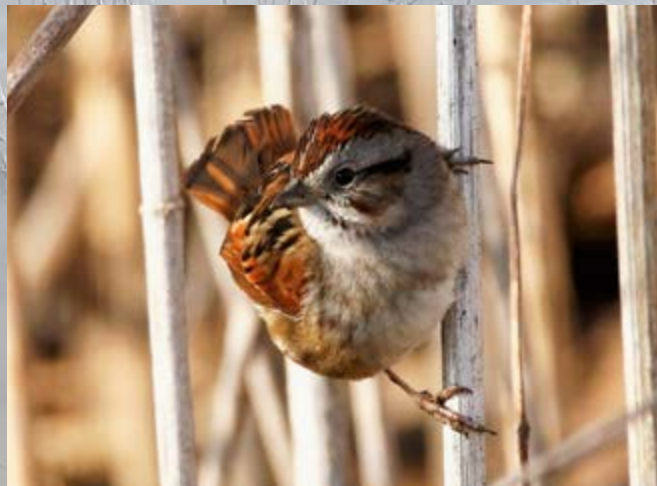


Photo: Swamp Sparrow by Carol Weston

666424010091D

2021 Survey Dates
 Migration: April 26th
 Breeding Season: June 8th
Acreage: 165

Species	Migration				Breeding Season		
	2015	2018	2019	2021	2015	2018	2021
American Bittern			2				
American Coot	4	84		41			
American Crow			1			2	1
American Goldfinch			2			1	
American Redstart						1	
American White Pelican				53			
Bald Eagle		1	1	2			
Baltimore Oriole			1			1	
Barn Swallow						4	
Barred Owl		1			2	2	
Black-capped Chickadee							2
Blue Jay						2	
Blue-winged Teal	33	76	14	17			
Bobolink						1	
Brown Thrasher	1		1				
Brown-headed Cowbird			1			1	
Canada Goose		2	5	4			
Cliff Swallow						6	
Common Grackle			17				
Common Yellowthroat	3		5		1	12	5
Cooper's Hawk				1			
Dickcissel						10	2
Double-crested Cormorant				43			
Downy Woodpecker				1			
Eastern Kingbird						1	
Eastern Tufted Titmouse			1			1	
Eastern Wood-Pewee						1	
Fish Crow						2	
Franklin's Gull				140			
Gadwall	10			20			
Gray Catbird						2	1
Great Blue Heron		14	1		16	1	
Great Egret	2		35	20	2	18	14
Greater Yellowlegs	7	7		4			
Green Heron					1		
Green-winged Teal		1					
Hermit Thrush	1						
Hooded Merganser	3	2		4		3	
Indigo Bunting						2	2
Killdeer	2						
King Rail		1	1			1	
Least Bittern					2	1	

Species	Migration				Breeding Season		
	2015	2018	2019	2021	2015	2018	2021
Least Sandpiper	2						
Lesser Yellowlegs	9	4	1	1			
Mallard	1			3	1	3	
Marsh Wren		3					
Mourning Dove			2			2	
Northern Bobwhite						3	
Northern Cardinal		1	5			1	1
Northern Flicker				1			
Northern Harrier				1			
Northern Rough-winged Swallow		4					
Northern Shoveler		13		10			
Pectoral Sandpiper	1	12					
Pied-billed Grebe		2			1		
Pileated Woodpecker						1	
Prothonotary Warbler					1		
Red-bellied Woodpecker			2	1		1	
Red-headed Woodpecker	1					1	1
Red-shouldered Hawk						1	
Ring-billed Gull				6			
Sandpiper Sp				4			
Solitary Sandpiper			1				
Song Sparrow	2	2	9		1	5	3
Sora	10	10	5				
Sparrow Sp			2				
Summer Tanager						1	
Swamp Sparrow	3	32		2			
Tree Swallow		112		1		2	
Turkey Vulture			1				
Virginia Rail	3	1	2				
White-faced Ibis				3			
White-rumped Sandpiper						1	
Wild Turkey	1				1		
Willow Flycatcher					1		1
Wilson's Snipe		9	15	4			
Wood Duck	1			1	5	2	1
Wood Thrush						1	
Woodpecker Sp						1	
Yellow Warbler					1	1	
Yellow-billed Cuckoo						2	1
Yellow-crowned Night-Heron					1		
Grand Total	100	394	133	388	37	105	35





Species	Migration					Breeding Season				
	2015	2016	2018	2019	2021	2015	2016	2018	2019	2021
American Bittern				1	1					
American Coot			24	24	8					
American Crow			2	3	4		1	5		
American Goldfinch	3	4		1	1			1	2	
American Robin		1		1						
American Tree Sparrow			1							
American White Pelican					13					
American Woodcock								1		
Bald Eagle		1		1					1	2
Baltimore Oriole	4						3	2	1	1
Bank Swallow							1			
Barn Swallow	5	5	1	2			3	5		
Barred Owl			1		4			1		
Bell's Vireo	2								1	1
Black-capped Chickadee	1			3	1			2		
Blue Grosbeak	1									
Blue Jay		2	4	2	9		3	3	2	1
Blue-gray Gnatcatcher		1		4	1					
Blue-winged Teal	3	36	68	59	87					
Bobolink	1									
Brown Thrasher			1	2	4					
Brown-headed Cowbird	3		1	6	2		3	2	6	1
Canada Goose	2	11	6	18	26	6		6	14	
Carolina Wren		2	1							
Chestnut-sided Warbler	1									
Cliff Swallow							11	1		1
Common Grackle							1			3
Common Yellowthroat	7	3					5	13	11	8
Crow		1	1						1	
Dickcissel			1				7	5		2
Double-crested Cormorant					2					
Downy Woodpecker					2					1
Duck							1			
Dunlin			1							
Eastern Bluebird								1		
Eastern Kingbird	8	2					5	2	1	2
Eastern Meadowlark	6	2	4		1		5	3		
Eastern Phoebe	1			1			1			
Eastern Towhee					2				1	
Eastern Tufted Titmouse	1	1	1	2	2		1	3	2	1
Eastern Wood-Pewee								2	1	1
European Starling					1					
Field Sparrow	3	3	1	3	14		1	2	1	1
Fish Crow										3

Species	Migration					Breeding Season				
	2015	2016	2018	2019	2021	2015	2016	2018	2019	2021
Gadwall			24							
Grasshopper Sparrow	3									
Gray Catbird							3	2	1	1
Great Blue Heron	5	3	2	2	2	1	3	11	10	26
Great Crested Flycatcher								1	1	1
Great Egret	6		1	1		1				26
Greater Yellowlegs	2		16	2	6					
Green Heron								1	2	
Green-winged Teal			1	21						
Hooded Merganser		1							8	
Horned Lark					1					
Indigo Bunting	5						5	8	11	5
Killdeer	4	4	3				3	10		11
Lark Sparrow		1			1			1		
Least Bittern								1	2	
Least Sandpiper	34									
Lesser Yellowlegs		12	20	35	1					
Lincoln's Sparrow				1	2					
Louisiana Waterthrush	3									
Mallard		1	10	3	2	2			2	5
Marsh Wren	3									
Mourning Dove		1	2	1	2			3		
Nashville Warbler	2									
Northern Bobwhite	1	1		4	2	2	5	8		1
Northern Cardinal	1	1	4	5	11		2	7	8	
Northern Flicker			1				1	2		
Northern Mockingbird			1							
Northern Parula		1					1	1	2	
Northern Rough-winged Swallow				13					6	
Northern Shoveler			8	2	13					
Orchard Oriole		1						3	2	
Osprey			1							
Pectoral Sandpiper	8	46	46							
Peregrine Falcon			1							
Pied-billed Grebe			4	3	8					
Pileated Woodpecker					1		1	1	1	
Prothonotary Warbler	4						1		1	
Purple Martin								2		
Red-bellied Woodpecker			2		1		2	4	2	
Red-eyed Vireo		2								
Red-headed Woodpecker							1	1		
Red-shouldered Hawk		3			1		2		2	
Ring-billed Gull			1							
Ring-necked Duck				4						
Rose-breasted Grosbeak	1									

Species	Migration					Breeding Season				
	2015	2016	2018	2019	2021	2015	2016	2018	2019	2021
Sandpiper Sp	1									
Savannah Sparrow		5	3	1	9					
Sedge Wren	1									
Semipalmated Plover	7									
Solitary Sandpiper	5	2	1							
Song Sparrow	1	2	11	3	1			5	2	
Sora	2	1		12	2					
Sparrow Sp		5		1	1					
Spotted Sandpiper	2									
Swallow Sp				12				5		
Swamp Sparrow	8	1	25		16					
Tree Swallow	4	3	16	40	32		3	3	1	3
Turkey Vulture	6	4	1		2		1		4	1
Vesper Sparrow			1							
Virginia Rail			1	2	2					
Warbling Vireo	4							4	3	3
Western Palm Warbler			1							
White-breasted Nuthatch					2					
White-rumped Sandpiper			1							
White-throated Sparrow				1						
Wild Turkey	1				4			1		
Willow Flycatcher								1		
Wilson's Snipe		8	8	21	25					
Wood Duck	1	8	4	6	5	19	37	5	25	3
Woodpecker Sp								1		
Yellow Warbler	1									
Yellow-billed Cuckoo							1	4	1	1
Yellow-breasted Chat							2	1	2	1
Yellow-headed Blackbird				2						
Yellow-rumped Warbler			6	2	3					
Yellow-throated Vireo	2							1		1
Grand Total	180	192	346	333	343	31	126	158	144	118

Photo: **Great Blue Heron** by Jerlyn Jones



PERSHING STATE PARK

7564240900P3D

2021 Survey Dates
 Migration: April 21st - 22nd
 Breeding Season: June 2nd - 3rd
Acres: 304

Species	Migration				Breeding Season			
	2017	2018	2019	2021	2017	2018	2019	2021
Acadian Flycatcher							1	
American Bittern	1	1	4	1				
American Coot	1	17		10				10
American Crow	1	1	4			5	2	1
American Goldfinch		1	13	6	6	6	3	7
American Robin		15	2			1		
Bald Eagle							1	
Baltimore Oriole						3		
Barn Swallow		8	2	1	4	8		2
Barred Owl						2		
Bell's Vireo					4	2	3	1
Belted Kingfisher	1			1				
Black-capped Chickadee	1					1		
Blue Jay	2	2	5	4		1	1	1
Blue-gray Gnatcatcher		1	6			1	2	1
Blue-winged Teal	76	30	29	127			3	2
Brown Thrasher		3	2			1		1
Brown-headed Cowbird	2		3	50		1	3	
Canada Goose	5	2	4	8			46	1
Carolina Wren			1				1	
Chestnut-sided Warbler	1							
Common Gallinule	1				3			
Common Grackle			1	1	1	4	1	
Common Yellowthroat	7		3		15	28	19	12
Cooper's Hawk			1					
Crow Sp						1		
Dickcissel	1				32	79	24	10
Double-crested Cormorant				12				
Downy Woodpecker			1		1	1		
Duck Sp						3	1	
Eastern Bluebird			2					1
Eastern Kingbird					5	2	3	2
Eastern Meadowlark	1		3				1	3
Eastern Phoebe			1				1	
Eastern Tufted Titmouse			1			3		
Eastern Wood-Pewee						3	2	
Field Sparrow	4	7	4	1	4	2	3	1
Fish Crow		1	1			1		
Gadwall		5						
Gray Catbird					3	3	2	
Great Blue Heron	3	4	1	1	1	3	1	1
Great Crested Flycatcher					1	2	1	3
Great-tailed Grackle				1				

PERSHING STATE PARK 7564240900P3D

Species	Migration				Breeding Season			
	2017	2018	2019	2021	2017	2018	2019	2021
Greater Yellowlegs			3	2				
Green Heron						1		
Green-winged Teal		15		6				
Hairy Woodpecker		1	1					
Henslow's Sparrow							1	
Hooded Merganser						1		
Horned Lark				1				
Indigo Bunting					12	10	13	6
Kentucky Warbler					1			
Killdeer							1	
King Rail	2	1						
Least Bittern	3				1	3	1	2
Mallard	5	9	2	8	2	3	3	2
Marsh Wren	13							
Mourning Dove					1	4		
Nashville Warbler	1							
Nelson's Sparrow		2						
Northern Bobwhite		1	1		1	15		
Northern Cardinal	1	4	5	1	4	6	9	3
Northern Flicker		5				2		1
Northern Parula	1		2				3	1
Northern Shoveler		10						
Orchard Oriole					3		2	1
Pectoral Sandpiper		4						
Peregrine Falcon		2						
Pied-billed Grebe	2	5	2	2				
Pileated Woodpecker		2						1
Prothonotary Warbler	2				2		2	1
Purple Martin						3	2	
Red-bellied Woodpecker			3		1	7	3	
Red-eyed Vireo						1		3
Red-headed Woodpecker					2	5		
Red-shouldered Hawk			2			1	1	
Red-tailed Hawk		1			1			
Red-winged Blackbird				10				
Rose-breasted Grosbeak						2		
Ruby-crowned Kinglet		2						
Ruby-throated Hummingbird					1			
Sandpiper Sp				20				
Savannah Sparrow		1	1					
Solitary Sandpiper	1		1					
Song Sparrow	2	6	6	2	3	1	3	
Sora	29	10	14	7				
Sparrow Sp			1	1				

PERSHING STATE PARK 7564240900P3D

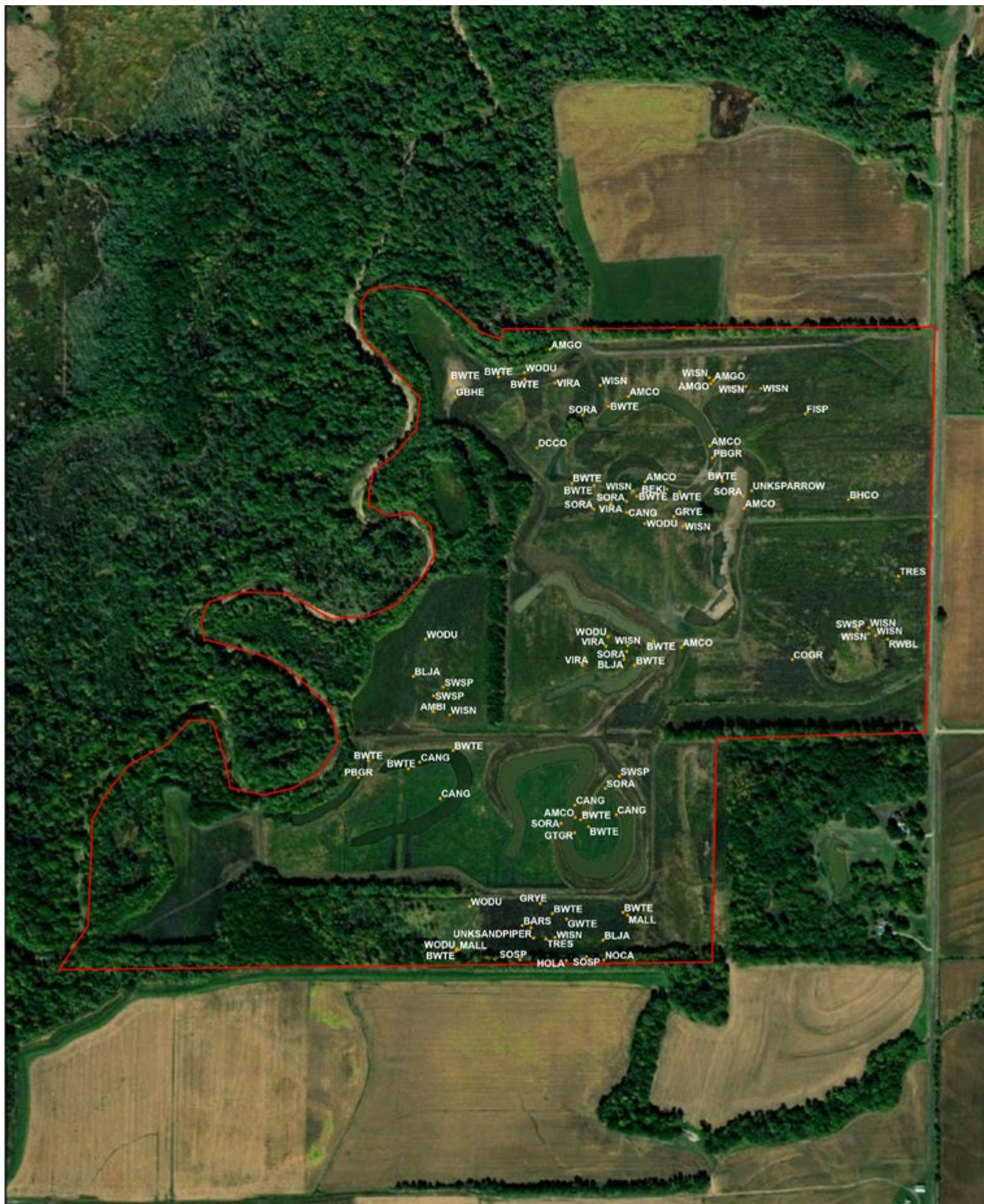
Species	Migration				Breeding Season			
	2017	2018	2019	2021	2017	2018	2019	2021
Summer Tanager							1	
Swamp Sparrow	9	12	10	5				
Tree Swallow	1		1	2	2	2	1	
Turkey Vulture	1	1	17			1		
Virginia Rail		3	1	4				
Warbling Vireo	3		3		2	1	1	3
White-breasted Nuthatch					1			
White-eyed Vireo							1	
White-throated Sparrow	3	1						
Wild Turkey						3		
Wilson's Snipe	11	7	17	20				
Wood Duck	9	23	12	10	42	36	8	8
Wood Thrush	1							
Yellow Rail			1					
Yellow Warbler								1
Yellow-billed Cuckoo					4	7	2	
Yellow-breasted Chat	1				3	2	6	5
Yellow-crowned Night-Heron						4		
Yellow-rumped Warbler	4							
Yellow-throated Vireo					1		1	
Grand Total	213	226	200	325	170	288	190	98



Photo: **Mallard** by Pat Bishop



PERSHING STATE PARK 7564240900P3D - MIGRATION



6664241000Z0F

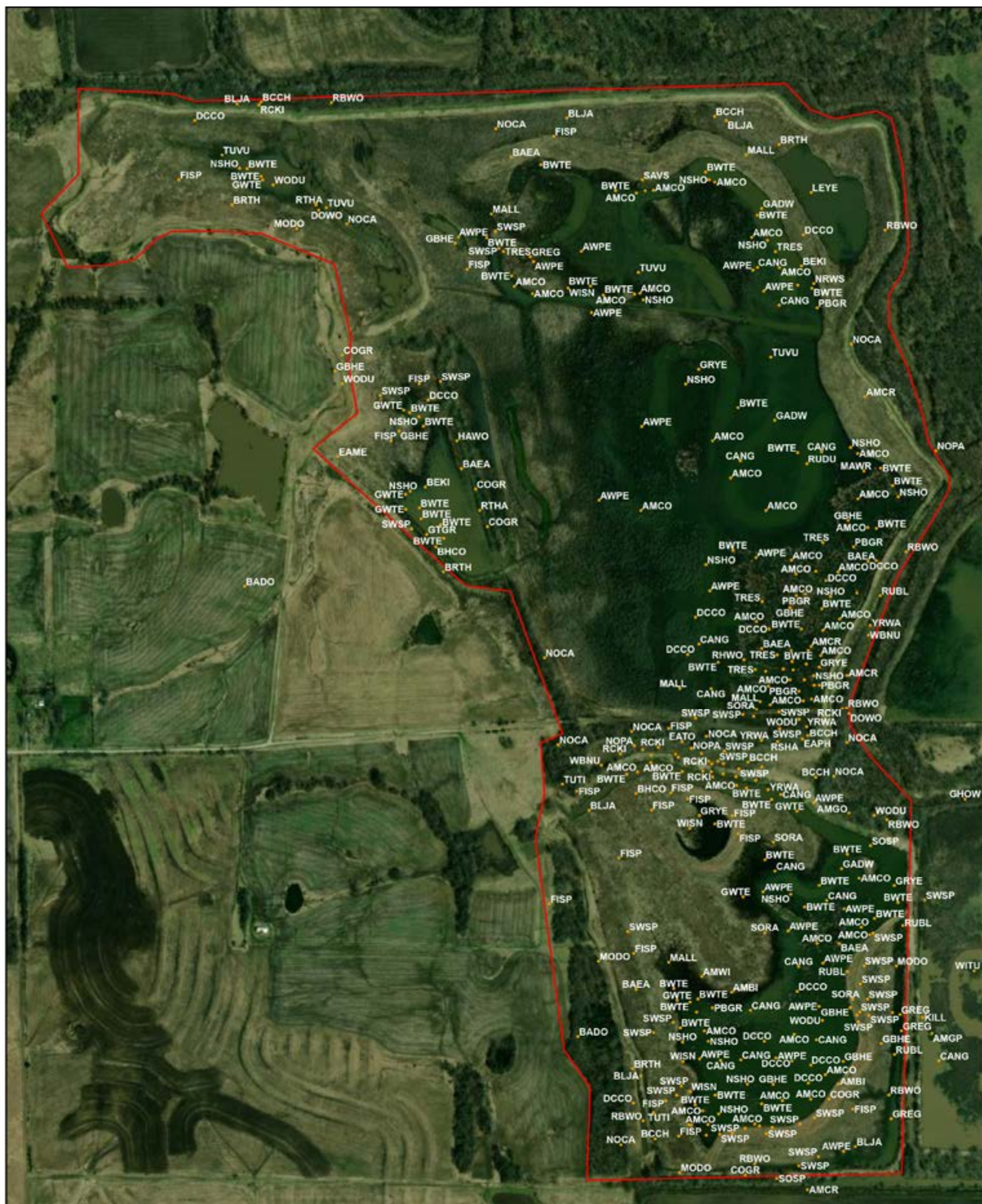
2021 Survey Dates
 Migration: April 16th
 Breeding Season: June 8th
 Acreage: 428

Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Bittern	7	2		
American Coot	11	542		15
American Crow	6	4	1	1
American Golden-Plover		1		
American Goldfinch	16	1	2	
American White Pelican		595		
American Wigeon		1		
Bald Eagle	1	6	1	3
Baltimore Oriole			1	8
Barn Swallow	1		2	1
Barred Owl		2		
Bell's Vireo			12	6
Belted Kingfisher		3		
Black-capped Chickadee	2	7		1
Blue Grosbeak			1	
Blue Jay	3	6		
Blue-gray Gnatcatcher	3		1	1
Blue-winged Teal	183	207	4	
Brown Thrasher	2	4		
Brown-headed Cowbird	6	3	3	3
Canada Goose	16	38		1
Carolina Wren	2		1	
Cedar Waxwing				4
Common Gallinule				7
Common Grackle	7	57	2	3
Common Yellowthroat			19	12
Crow Sp	1			
Dickcissel			11	5
Double-crested Cormorant		83		
Downy Woodpecker	1	2		3
Duck Sp	1		5	
Eastern Kingbird			5	5
Eastern Meadowlark	3	1	2	1
Eastern Phoebe	1	1	1	
Eastern Towhee		1		
Eastern Tufted Titmouse	1	2	2	1
Eastern Wood-Pewee			1	2
European Starling				51
Field Sparrow	34	18	17	7
Gadwall		3		
Gray Catbird			3	5
Great Blue Heron	2	11	2	4
Great Crested Flycatcher			2	2

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Great Egret		6	13	12
Great Horned Owl		1		
Great-tailed Grackle	2	1		11
Greater Yellowlegs	2	4		
Green Heron			1	2
Green-winged Teal		17		
Hairy Woodpecker		1		2
Henslow's Sparrow				2
House Wren			1	5
Indigo Bunting			15	9
Killdeer	1	1	1	1
Least Bittern				2
Lesser Yellowlegs	1	1		
Mallard	5	9	6	7

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Marsh Wren		1		
Mourning Dove	3	6		
Northern Bobwhite	9		4	
Northern Cardinal	9	10	12	8
Northern Flicker			1	
Northern Parula	1	3	1	1
Northern Rough-winged Swallow		2		
Northern Shoveler	4	93		
Orchard Oriole			3	3
Pied-billed Grebe	2	7		2
Pileated Woodpecker		1	1	
Red-bellied Woodpecker	5	8	2	2
Red-eyed Vireo			1	
Red-headed Woodpecker		1	1	
Red-shouldered Hawk		1		
Red-tailed Hawk		2		
Ring-necked Duck	3			
Rose-breasted Grosbeak				1
Ruby-crowned Kinglet	4	9		
Ruddy Duck		3		
Rusty Blackbird		9		
Sandpiper Sp	1			
Savannah Sparrow		1		
Scissor-tailed Flycatcher	1			
Snow Goose	4			
Solitary Sandpiper	1			
Song Sparrow	3	3		
Sora	12	4		
Swamp Sparrow	17	50		
Tree Swallow	19	118	2	3
Turkey Vulture	6	4		
Warbling Vireo			4	5
White-breasted Nuthatch		2		
White-eyed Vireo				1
White-throated Sparrow	11			
Wild Turkey		1	2	
Wilson's Snipe	9	7		
Wood Duck	7	12	26	15
Yellow-billed Cuckoo			1	5
Yellow-breasted Chat			4	1
Yellow-rumped Warbler	1	5		
Grand Total	453	2005	203	252





66642498009Z6

2021 Survey Dates
 Migration: April 30th
 Breeding Season: June 14th
Acres: 90

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
American Bittern			1							
American Coot		5	28	1	3					
American Crow	2		7		1			2		
American Goldfinch	8	3		2	2	1		1	2	
American Robin				1						
Baltimore Oriole	1				1	3		1	1	
Bank Swallow						1				
Barn Owl					1					
Barn Swallow		2	1		2	1	1	8		
Barred Owl			1				1	1		
Bell's Vireo						1				
Belted Kingfisher	1			1	1					
Black-capped Chickadee		3	1	4		1			1	
Blue Jay			2	1	1		3			
Blue-gray Gnatcatcher				1			2			1
Blue-winged Teal		30	59	21	10					
Brown Thrasher			1	1	2					
Brown-headed Cowbird	4		1	2		1	1	1	1	
Canada Goose	2	9	6	4	23		16			5
Cedar Waxwing							3			
Common Grackle				182		2	4		11	
Common Yellowthroat	14	3	1	6	4	7	3	8	22	3
Dickcissel						1		2		
Downy Woodpecker		1	1					1		
Duck Sp					2				3	
Eastern Kingbird					1		2	2	1	2
Eastern Meadowlark								1		
Eastern Phoebe				1					1	
Eastern Towhee	1		1	1		2	1		1	
Eastern Tufted Titmouse		4		1	2				1	
Eastern Wood-Pewee									1	
Field Sparrow	2		2		1	4		1	2	
Flycatcher Sp									1	
Gray Catbird	2	1			2	3	4	5	2	
Great Blue Heron	1		3		1	2		5	1	4
Great Crested Flycatcher	1			1	2				2	
Great-tailed Grackle				1						
Greater Yellowlegs			2		1					
Green Heron	1								1	
House Wren	3			4		2	1	2	2	
Indigo Bunting	2				1	6	2	3	1	2
Killdeer		1		1				1		

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
King Rail		1					1			
Least Bittern							2	1		
Least Flycatcher							1			
Lesser Yellowlegs		18								
Long-billed Dowitcher		6								
Louisiana Waterthrush					1					
Mallard		1	1	1			3			2
Marsh Wren		1	2	1						
Mourning Dove	2		1	1	1		2	2	1	
Nashville Warbler	1	1								
Northern Cardinal		1	1	4	2	1	1	2	4	1
Northern Flicker				1				1	2	
Northern Harrier			1							
Northern Parula	1			2					2	1
Northern Rough-winged Swallow		2								
Northern Shoveler					4					
Northern Waterthrush	1									
Pied-billed Grebe			3				1			
Pileated Woodpecker								1		
Prothonotary Warbler					1			1		
Purple Martin				1				3	1	
Red-bellied Woodpecker			1	1				2	2	
Red-eyed Vireo	1					1				1
Red-headed Woodpecker	2		1		4	1				
Red-shouldered Hawk						1		1		
Red-tailed Hawk			1							
Rose-breasted Grosbeak	2				1			1		
Ruby-crowned Kinglet	1		1							
Ruby-throated Hummingbird										1
Rusty Blackbird			2							
Sedge Wren	1		1					2		
Solitary Sandpiper		1		1	2					
Song Sparrow	2	1	5	5		4		4	2	
Sora	8	5	2	16	4					
Sparrow Sp		2		3						
Spotted Sandpiper		1	1	1						
Swallow Sp								2		
Swamp Sparrow	2	2	21	1						
Tree Swallow		53	5	1	1			2		
Turkey Vulture		6								
Virginia Rail			3	2						
Warbling Vireo	3				1	1			1	

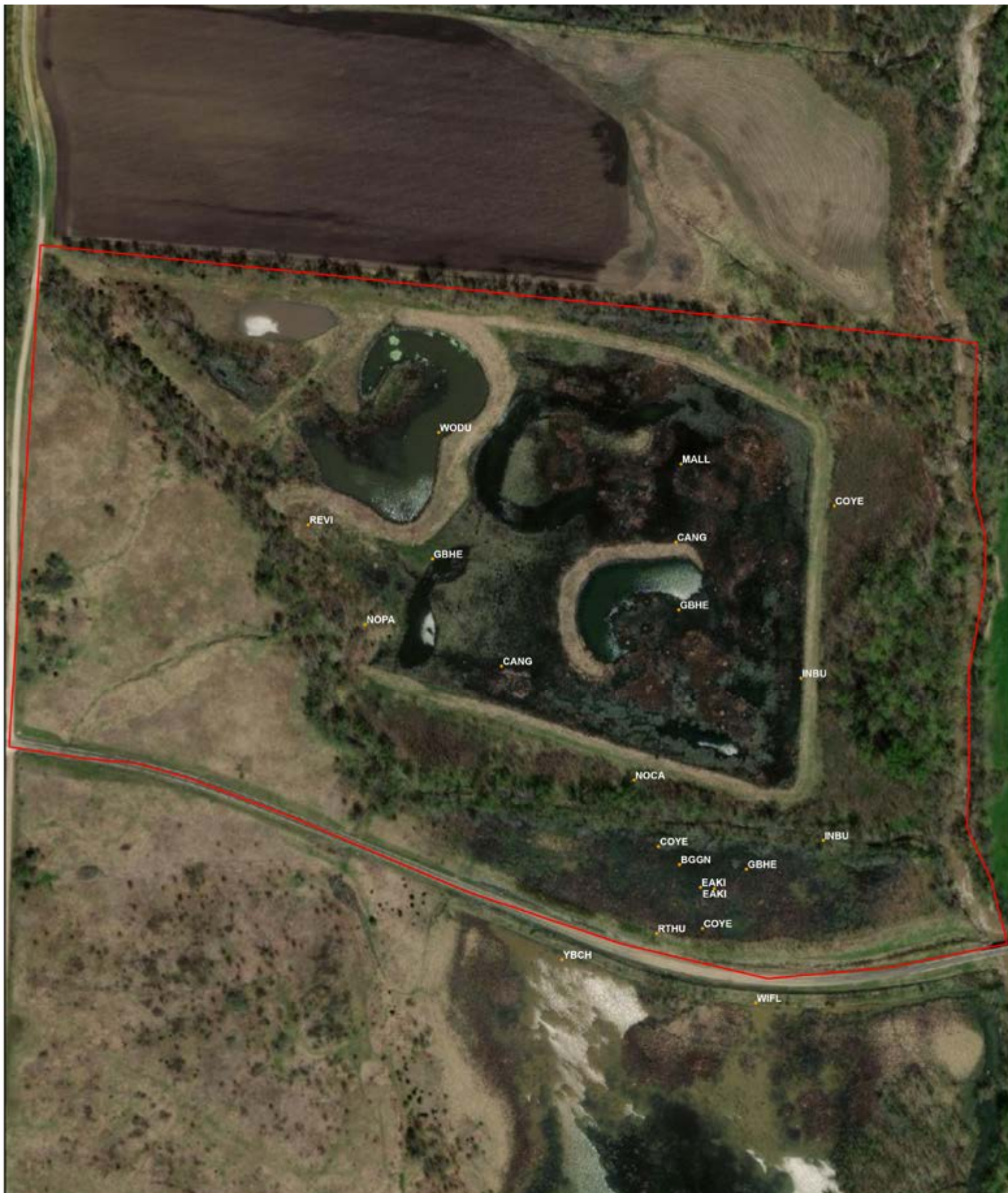
Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Western Palm Warbler	1				1					
White-throated Sparrow	2	2	11	2	3					
Wild Turkey		1	1	1		3	1			
Willow Flycatcher								2		1
Wilson's Snipe		1	5							
Wood Duck		2	3	2	1		8	1	2	1
Woodpecker Sp							1			
Yellow Warbler	2						1		1	
Yellow-billed Cuckoo	1							2	2	
Yellow-breasted Chat						2				1
Yellow-crowned Night-Heron								1		
Yellow-rumped Warbler			1	1	1					
Yellow-throated Vireo						1				
Grand Total	78	170	192	285	92	53	66	76	78	26



Photo: Sora by MRBO Staff



Photo: Common Yellowthroat by MRBO Staff





666424040099C

2021 Survey Dates
 Migration: April 14th
 Breeding Season: June 7th
Acreage: 237

Species	Migration		Breeding Season
	2019	2021	2021
American Bittern	5	1	
American Coot	3	1	
American Goldfinch			2
American Wigeon		10	
Bald Eagle	1	1	
Baltimore Oriole			1
Blue-winged Teal	57	1290	
Bufflehead		1	
Common Gallinule	2		
Common Yellowthroat			4
Dickcissel			10
Duck Sp		100	
Eastern Meadowlark	19	5	2
Fish Crow			1
Gadwall		2	
Grasshopper Sparrow	3	2	
Great Blue Heron			1
Greater Yellowlegs	29	5	
Green-winged Teal		100	
Hooded Merganser		1	
Killdeer		4	
Least Sandpiper		6	
Lesser Yellowlegs		20	
Mallard		17	1
Marsh Wren		1	
Nelson's Sparrow	1	2	
Northern Harrier		4	
Northern Pintail		5	
Northern Shoveler		105	
Orchard Oriole			1
Pectoral Sandpiper		2	
Pied-billed Grebe	4	10	
Red-eyed Vireo			1

Species	Migration		Breeding Season
	2019	2021	2021
Red-headed Woodpecker	2		
Redhead		2	
Sandpiper Sp		20	
Savannah Sparrow	1	3	
Solitary Sandpiper	1		
Song Sparrow		3	
Sora	41	1	
Swamp Sparrow	5	19	
Tree Swallow		2	
Virginia Rail	1		
Wilson's Snipe	8	2	
Wood Duck	2		
Yellow Rail	1		
Yellow-crowned Night-Heron			1
Grand Total	186	1747	25





WET REGION 2 OVERVIEW

Survey coverage in WET Region 2 in 2021.

<i>Easement</i>	<i>County</i>	<i>Site Acreage</i>	<i># Transects</i>	<i>Migration Visit</i>	<i>Breeding Visit</i>
66642411014V7	Howard	107	4	4/19	6/12
66642411013WV	Pike	221	6	Too late in Season	6/23
66642404009BN	Shelby	167	4	5/1	6/24
6664240200938 - E	Shelby	330	4	4/30	6/27
66642407009TH	Monroe	525	10	4/29	6/20
666424120196Z & 65642497009XJ	Cooper	143	5	4/25	6/17
65642494000RM	Cooper	67	2	4/18	6/1
66642407009TL	Pike	249	5	4/26	6/23
65642497009VR	Pike	470	10	4/25	6/22
6664241000NKC	Randolph	788	15	4/27	6/15 & 6/16
66642412018GC - E	Shelby	73	2	4/16	6/26
6664241101527	Saline	49	2	4/23	7/5
66642495009DQ & 666424100YC6	Howard	213	3	4/26	6/11
6664241201973	Lewis	98	3	5/4	6/28
66642412018GC - W	Shelby	98	4	4/16	7/6
66642412018JK	Shelby	44	2	5/2	6/26
5464241501JT8	Clark	241	4	5/6	6/27
66642496009R9	Adair	151	3	5/5	6/28
5464241501G4D	Monroe	132	3	5/3	6/24

66642411014V7

2021 Survey Dates
 Migration: April 19th
 Breeding Season: June 12th
 Acreage: 107

Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Alder Flycatcher					1	
American Bittern	2		1			
American Coot	2	2	26			
American Crow	1	1	1		1	1
American Goldfinch		1		2	9	
American Robin		3	1	1	2	
Bald Eagle	2		1			
Baltimore Oriole	2				5	1
Barn Swallow	3	5	1		2	
Barred Owl			1			1
Belted Kingfisher	2		1	3		
Black-capped Chickadee		7	4	1		1
Blue Jay	1	4	1		1	
Blue-gray Gnatcatcher	2	9			2	5
Blue-winged Teal	70	32	35		1	
Brown Thrasher			1	1		
Brown-headed Cowbird	1	2	2	2	1	1
Canada Goose	10	10	15			
Carolina Wren	1		1		1	
Cedar Waxwing					7	
Chipping Sparrow		2			1	
Cliff Swallow				1	30	
Common Grackle	2	15	8	15	19	4
Common Yellowthroat	8	12		3	10	7
Cooper's Hawk		1				
Dickcissel				1	4	
Downy Woodpecker	1	1		1	1	
Eastern Bluebird	1	7	2			
Eastern Kingbird		4		1	4	1
Eastern Meadowlark	3	1		1		1
Eastern Phoebe	2	1		1		
Eastern Towhee			1		1	
Eastern Tufted Titmouse		5	4	1	1	
Eastern Wood-Pewee				1	4	
European Starling		7	4	3	1	
Field Sparrow	6	5			1	
Gray Catbird	1	1		1	1	
Great Blue Heron	3	2	1	4	1	
Great Crested Flycatcher		3		1		1
Greater Yellowlegs	5					
Green Heron		1		4	2	
Hooded Merganser			3			
House Wren		3		1		
Indigo Bunting	5	4	1	7	6	8

66642411014V7

	Migration			Breeding Season		
Species	2016	2017	2021	2016	2017	2021
Killdeer				5		
Lesser Yellowlegs	9					
Lincoln's Sparrow		4				
Long-billed Dowitcher	4					
Louisiana Waterthrush	2	2		1		
Mallard	1				1	
Marsh Wren	3					
Mourning Dove	2	3	1		3	3
Northern Bobwhite					2	
Northern Cardinal	1	3	2	1	3	2
Northern Flicker			1	1		
Northern Mockingbird		2				
Northern Parula	2	5	1		6	
Northern Rough-winged Swallow	6	1				
Orchard Oriole		4				4
Pectoral Sandpiper	7					
Pied-billed Grebe			4			
Pileated Woodpecker		1			3	
Prothonotary Warbler	4	1		2	4	
Purple Martin				5		
Red-bellied Woodpecker	1	3	1	2	1	
Red-eyed Vireo						1
Red-headed Woodpecker	4	6	4		3	5
Red-shouldered Hawk				1	1	
Red-tailed Hawk	2	2	1		1	
Redhead	1					
Rock Pigeon			1			
Ruby-crowned Kinglet		3	1			
Ruby-throated Hummingbird					1	
Sandpiper Sp	55					
Savannah Sparrow		15				
Scarlet Tanager					3	
Solitary Sandpiper		1				
Song Sparrow		6				
Sora	1	1	7			
Swallow Sp				2		
Swamp Sparrow	4	9	16			
Tree Swallow	1	18	7	1	10	3
Turkey Vulture	6	3				
Virginia Rail			2			
Warbling Vireo		7	1	1	1	2
Western Palm Warbler		4				
White-breasted Nuthatch		1				

66642411014V7

Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
White-crowned Sparrow		2				
White-throated Sparrow	1	10	1			
Wild Turkey			1			
Wilson's Snipe		3	1			
Wood Duck	24	18	17	16	27	6
Yellow Warbler	1				1	
Yellow-billed Cuckoo					2	
Yellow-breasted Chat					1	2
Yellow-rumped Warbler		14	1			
Yellow-throated Vireo		1				
Yellow-throated Warbler			2			
Grand Total	278	304	189	95	194	60



Photo: **Wood Ducks** by Buddy Woods Jr.





66642411013WV

2021 Survey Dates

Migration: Too late in Season

Breeding Season: June 23rd

Acreage: 221

	Breeding Season
Species	2021
Bald Eagle	2
Barn Swallow	9
Blue-gray Gnatcatcher	1
Brown-headed Cowbird	7
Carolina Wren	1
Common Grackle	2
Common Yellowthroat	5
Dickcissel	33
Eastern Meadowlark	3
House Wren	1
Indigo Bunting	3
Kentucky Warbler	1
Killdeer	3
Marsh Wren	1
Northern Bobwhite	3
Northern Cardinal	1
Orchard Oriole	1
Song Sparrow	2
Tree Swallow	4
Warbling Vireo	1
Yellow-billed Cuckoo	3
Yellow-breasted Chat	1
Grand Total	88



Photo: **Dickcissel** by Russell Kinerson

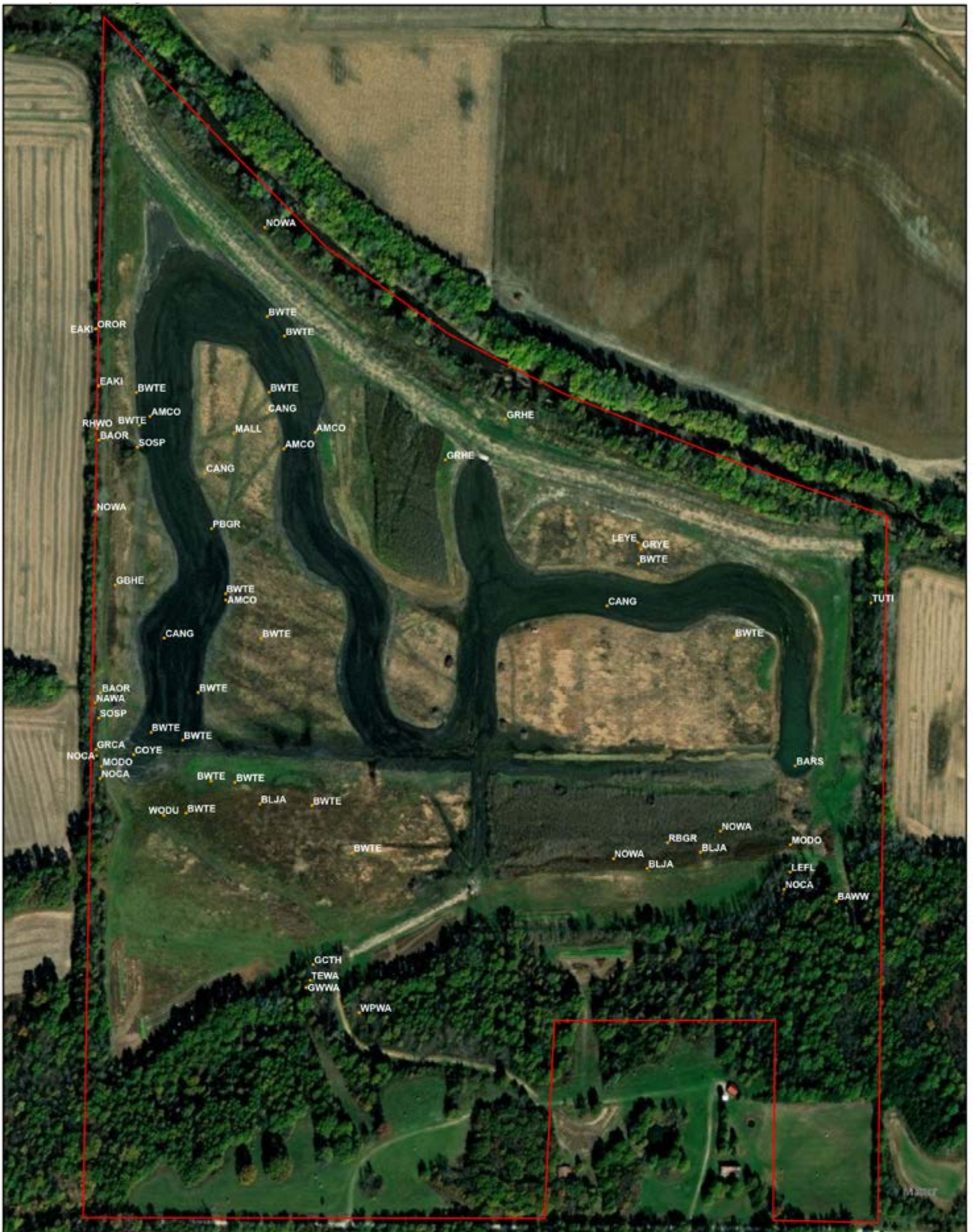


2021 Survey Dates
 Migration: May 1st
 Breeding Season: June 24th
Acreage: 167

Species	Migration		Breeding Season	
	2018	2021	2018	2021
American Coot	23	75		
American Crow	1		3	
Bald Eagle	2			
Baltimore Oriole		2	4	
Bank Swallow	1			
Barn Swallow	7	1		2
Barred Owl	1		1	
Bell's Vireo			1	
Black-and-white Warbler		1		
Black-capped Chickadee	1		1	1
Blue Jay	3	3	2	
Blue-gray Gnatcatcher				1
Blue-winged Teal	13	72		
Brown Thrasher	1		1	
Brown-headed Cowbird	1			
Canada Goose	14	15		2
Carolina Wren	1			
Common Grackle			8	
Common Yellowthroat		1	9	4
Dickcissel			9	
Downy Woodpecker			1	
Duck Sp	6			
Dunlin	1			
Eastern Kingbird		2	2	1
Eastern Tufted Titmouse	4	1	1	
Eastern Whip-poor-will			3	
Eastern Wood-Pewee			1	
European Starling			5	
Field Sparrow	1		1	
Golden-winged Warbler		1		
Gray Catbird		1	5	1
Gray-cheeked Thrush		1		
Great Blue Heron		2	1	4
Great Crested Flycatcher			2	1
Greater Yellowlegs	1	3		
Green Heron		2	2	4
Green-winged Teal	11			
Hairy Woodpecker	1			
Hooded Merganser			2	
House Wren			1	
Indigo Bunting			10	5
Kentucky Warbler			1	
Killdeer	4		16	1
Least Flycatcher		1		
Lesser Yellowlegs	7	1		
Mallard		1	4	

Species	Migration		Breeding Season	
	2018	2021	2018	2021
Marsh Wren	1			
Mourning Dove	7	2	6	
Nashville Warbler		1		
Northern Bobwhite			2	
Northern Cardinal	7	3	4	
Northern Flicker	1			
Northern Rough-winged Swallow	2			
Northern Waterthrush		4		
Orchard Oriole		1		2
Ovenbird			1	
Pectoral Sandpiper	1			
Pied-billed Grebe	2	2		
Pileated Woodpecker	1			
Red-bellied Woodpecker	4		2	
Red-headed Woodpecker		1	2	
Red-shouldered Hawk			1	
Rose-breasted Grosbeak		1	2	
Ruby-crowned Kinglet	2			
Sandpiper Sp	3			
Savannah Sparrow	16			
Song Sparrow	17	2	5	3
Tennessee Warbler		1		
Tree Swallow	10			
Turkey Vulture	2			
Warbling Vireo			1	2
Western Palm Warbler		1		
White-breasted Nuthatch	1			
Wild Turkey			1	
Wilson's Snipe	15			
Wood Duck		2		8
Wood Thrush			2	
Woodpecker Sp			1	
Yellow-billed Cuckoo				1
Yellow-rumped Warbler	8			
Yellow-throated Vireo			1	
Grand Total	205	207	128	43





6664240200938 - E

2021 Survey Dates
 Migration: April 30th
 Breeding Season: June 27th
Acres: 330

	Migration	Breeding Season
Species	2021	2021
American Coot	30	
American Goldfinch	2	
American Pipit	1	
Bald Eagle	1	
Barn Swallow		1
Barred Owl	1	
Blue-winged Teal	158	2
Brown Thrasher	1	
Brown-headed Cowbird	1	
Canada Goose	7	
Common Yellowthroat	7	2
Eastern Kingbird	1	
Gray Catbird	1	
Great Blue Heron	1	1
Great Egret		1
Killdeer		1
Least Bittern		1
Lesser Yellowlegs	1	
Mallard	2	1
Marsh Wren	8	
Northern Cardinal	1	
Northern Shoveler	2	
Orchard Oriole	1	
Pileated Woodpecker		1
Red-headed Woodpecker	2	
Ring-necked Pheasant	1	
Sedge Wren	1	
Solitary Sandpiper	2	
Song Sparrow	1	1
Sora	4	
Spotted Sandpiper	1	
Swamp Sparrow	1	
Tree Swallow	22	3
Warbling Vireo		1
Willow Flycatcher		2
Wood Duck		1
Yellow Warbler	1	
Grand Total	263	19



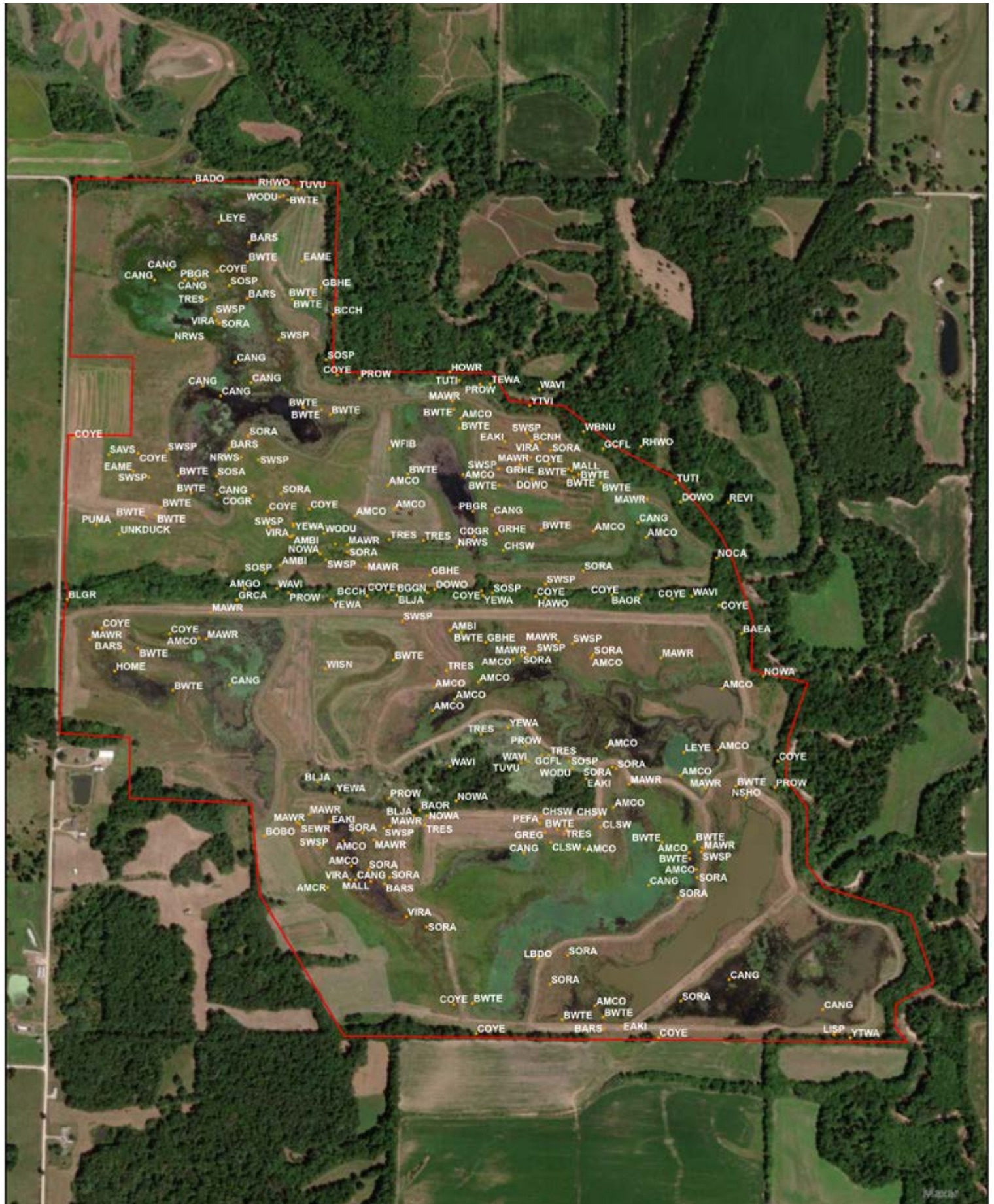


2021 Survey Dates
 Migration: April 29th
 Breeding Season: June 20th
Acreage: 525

	Migration	Breeding Season
Species	2021	2021
American Bittern	3	
American Coot	274	
American Crow	1	
American Goldfinch	1	
Bald Eagle	1	
Baltimore Oriole	2	
Barn Swallow	43	4
Barred Owl	1	
Black-capped Chickadee	2	
Black-crowned Night-Heron	2	
Blue Grosbeak	1	
Blue Jay	4	
Blue-gray Gnatcatcher	1	
Blue-winged Teal	140	1
Bobolink	2	
Canada Goose	34	27
Chimney Swift	8	
Cliff Swallow	4	7
Common Grackle	16	6
Common Yellowthroat	19	9
Dickcissel		4
Downy Woodpecker	3	
Duck Sp	2	
Eastern Kingbird	6	2
Eastern Meadowlark	3	1
Eastern Phoebe		1
Eastern Tufted Titmouse	2	
Gray Catbird	2	
Great Blue Heron	3	5
Great Crested Flycatcher	2	
Great Egret	5	7
Green Heron	2	
Hairy Woodpecker	1	
Hooded Merganser	1	
House Wren	1	
Indigo Bunting		3
Killdeer		7
Least Bittern		1
Lesser Yellowlegs	29	
Lincoln's Sparrow	1	
Long-billed Dowitcher	1	
Mallard	4	7
Marsh Wren	23	
Mourning Dove		3
Northern Bobwhite		1

	Migration	Breeding Season
Species	2021	2021
Northern Cardinal	1	1
Northern Parula		1
Northern Rough-winged Swallow	14	
Northern Shoveler	1	
Northern Waterthrush	5	
Orchard Oriole		1
Peregrine Falcon	1	
Pied-billed Grebe	2	
Prothonotary Warbler	6	1
Purple Martin	1	
Red-eyed Vireo	1	
Red-headed Woodpecker	3	
Red-shouldered Hawk		1
Ruby-throated Hummingbird		1
Savannah Sparrow	1	
Sedge Wren	1	
Solitary Sandpiper	1	
Song Sparrow	5	4
Sora	19	
Swamp Sparrow	20	
Tennessee Warbler	1	
Tree Swallow	63	1
Turkey Vulture	3	
Virginia Rail	5	
Warbling Vireo	5	1
White-breasted Nuthatch	1	
White-faced Ibis	3	
Willow Flycatcher		1
Wilson's Snipe	1	
Wood Duck	4	35
Yellow Warbler	5	
Yellow-throated Vireo	1	
Yellow-throated Warbler	1	
Grand Total	825	144





666424120196Z & 65642497009XJ

2021 Survey Dates
 Migration: April 25th
 Breeding Season: June 17th
 Acreage: 143

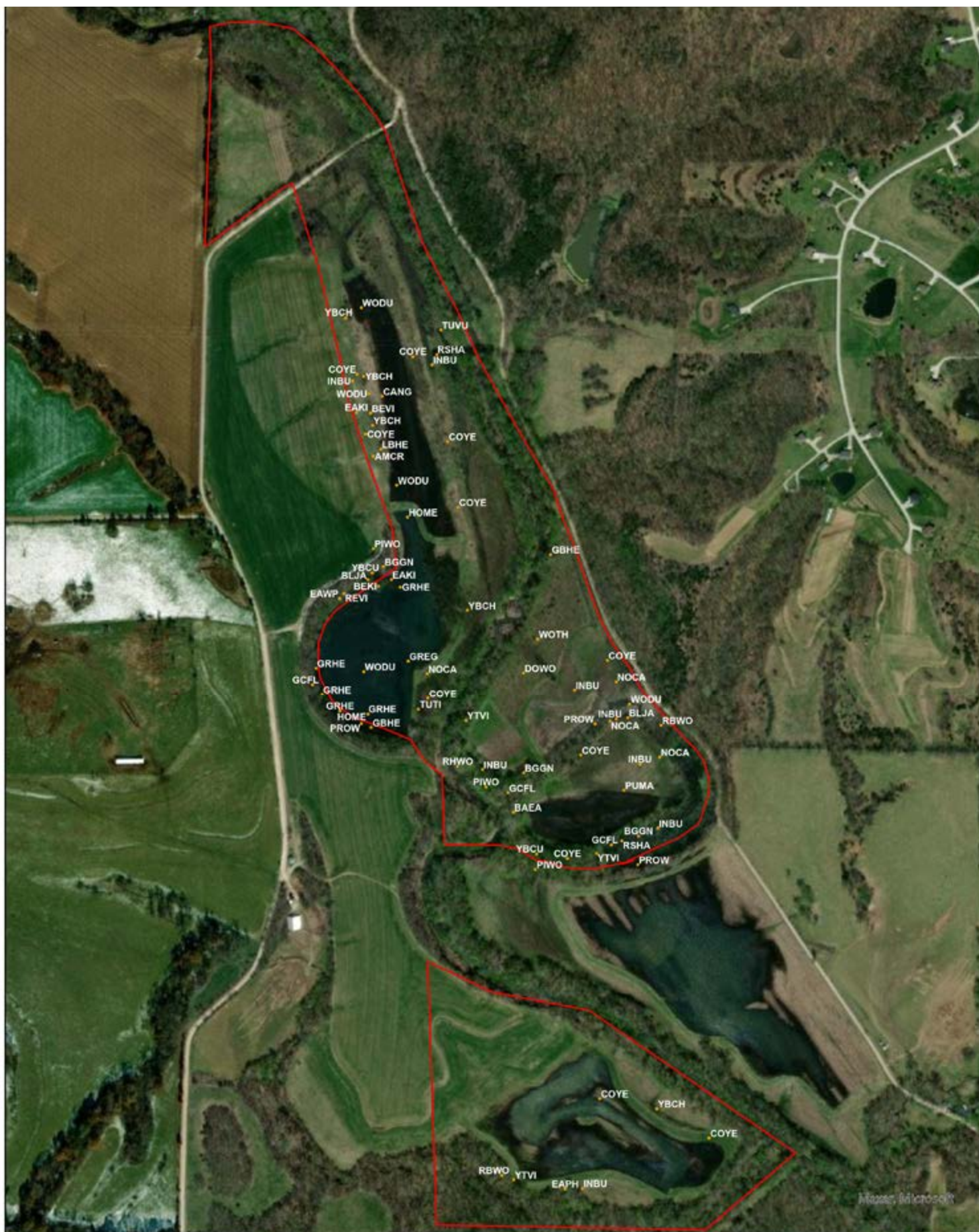
Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
American Coot			3			
American Crow			3	6		1
American Goldfinch	1	1	1	5	1	
American Robin			1	2		
Bald Eagle	4	2	2	3		1
Baltimore Oriole	2				1	
Bank Swallow	8					
Barn Swallow	1	1	1			
Barred Owl			1			
Bell's Vireo						1
Belted Kingfisher		6	1	4	1	2
Black-capped Chickadee	1		2	2		
Blue Jay	1	2	2	2	1	2
Blue-gray Gnatcatcher	1	2	6	2	2	3
Blue-winged Teal	1	14	95			
Bobolink	1					
Broad-winged Hawk					1	
Brown Thrasher		3	1			
Brown-headed Cowbird	2	2	11		1	
Canada Goose	9	6	11			6
Carolina Chickadee					1	
Carolina Wren	3	1			3	
Common Grackle		2		3		
Common Yellowthroat	16	2	6	6	10	11
Crow Sp			2			
Downy Woodpecker						1
Eastern Kingbird	2			2	3	3
Eastern Meadowlark	1					
Eastern Phoebe						1
Eastern Towhee	1					
Eastern Tufted Titmouse	3	3	2	1	2	1
Eastern Wood-Pewee					5	1
Eurasian Collared-Dove				4		
European Starling	1		3		2	
Field Sparrow	1		1			
Fish Crow			4			
Golden-crowned Kinglet			1			
Gray Catbird				2	2	
Great Blue Heron	2		2		2	2
Great Crested Flycatcher	5			3	6	3

Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Great Egret						1
Greater Yellowlegs			1			
Green Heron	2		4		3	5
Hooded Merganser						5
House Wren	1					
Indigo Bunting	10			5	15	8
Kentucky Warbler	1				1	
Lincoln's Sparrow	1					
Little Blue Heron						1
Louisiana Waterthrush			1			
Mourning Dove			1	1	1	
Northern Cardinal	2	3	15	3	4	5
Northern Parula	1	5	5	1	2	
Northern Rough-winged Swallow			5		2	
Northern Shoveler		2	2			
Northern Waterthrush	1					
Pied-billed Grebe		2	4			
Pileated Woodpecker	1	2	1		2	3
Pine Siskin			1			
Prothonotary Warbler	5	4		2	3	3
Purple Martin				2		1
Red-bellied Woodpecker	1	1	3	2	2	2
Red-eyed Vireo	1			1	3	1
Red-headed Woodpecker	5	4	3	6	6	1
Red-shouldered Hawk		1		3	2	2
Red-tailed Hawk	1			3	1	
Rock Pigeon			14	9		
Ruby-crowned Kinglet			2			
Ruby-throated Hummingbird	1			1		
Rusty Blackbird			1			
Sedge Wren	4					
Solitary Sandpiper			3			
Sora			4			
Spotted Sandpiper	1	2				
Summer Tanager				1	1	
Swainson's Thrush	1					
Swamp Sparrow	1	1	6			
Tree Swallow	8	4	5			
Turkey Vulture		1	1			1
Warbling Vireo	4	1	3	1	2	
White-breasted Nuthatch	2	2	1		2	
White-eyed Vireo			1		1	
White-throated Sparrow	1	5	5			
Wild Turkey		4	3			

Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Wilson's Snipe		1				
Wood Duck	5	29	16	2	16	23
Wood Thrush	5			1	3	1
Yellow Warbler	2					
Yellow-billed Cuckoo	1				1	2
Yellow-breasted Chat	1			1	1	5
Yellow-rumped Warbler		1				
Yellow-throated Vireo						3
Yellow-throated Warbler		1	2			
Grand Total	137	123	275	92	118	112



Photo: **Pied-billed Grebe** by Mark Ramsey





65642494000RM

2021 Survey Dates
 Migration: April 18th
 Breeding Season: June 1st
 Acreage: 67

Species	Migration			Breeding Season		
	2017	2018	2021	2017	2018	2021
American Crow	1					1
American Goldfinch	1		4			
American Redstart	1					
American Robin			2			
Baltimore Oriole	1			1		1
Barn Swallow	4		1			
Black-capped Chickadee	3	3	3	2	1	1
Blue Jay	1	7	4	3	1	3
Blue-gray Gnatcatcher						2
Blue-winged Teal		39	78			
Brown Thrasher	1	1				
Brown-headed Cowbird	1	8	6			7
Canada Goose		3	8			
Carolina Wren	1	2	1		4	1
Cedar Waxwing						1
Cliff Swallow				1		
Common Grackle			4		1	3
Common Yellowthroat	1					4
Crow Sp		2				
Dark-eyed Junco		2				
Downy Woodpecker	1	1	3	1		2
Eastern Bluebird		1			2	
Eastern Kingbird	1					
Eastern Phoebe		1				
Eastern Tufted Titmouse		1	2	1	1	2
Eastern Wood-Pewee					1	2
European Starling						1
Field Sparrow	2					
Fish Crow			28		1	30
Great Blue Heron		1			2	2
Great Crested Flycatcher	1					1
Green Heron		1			1	
Green-winged Teal		12				
Hairy Woodpecker	1		1		1	
Indigo Bunting	2			6	2	12
Kentucky Warbler				1		
Least Flycatcher	1					
Lesser Yellowlegs		3	1			
Louisiana Waterthrush					1	
Mallard			2			
Mourning Dove		2				1
Northern Cardinal	5	8	7	6	6	6
Northern Flicker		2	1			
Northern Rough-winged Swallow	3			1		

Species	Migration			Breeding Season		
	2017	2018	2021	2017	2018	2021
Pileated Woodpecker	1	1	1			1
Prothonotary Warbler					1	
Purple Martin						1
Red-bellied Woodpecker		2	1			1
Red-eyed Vireo						2
Red-shouldered Hawk			1			
Rose-breasted Grosbeak	1					
Ruby-crowned Kinglet		2	1			
Ruby-throated Hummingbird						1
Rusty Blackbird		3				
Song Sparrow		4				
Swamp Sparrow		5	2			
Tennessee Warbler	1					
Tree Swallow		8				
Turkey Vulture		1	3			
Warbling Vireo	1			1	3	
White-breasted Nuthatch		1				
White-eyed Vireo						1
White-throated Sparrow		5	1			
Wilson's Snipe		1				
Wood Duck	1	3	8		3	4
Wood Thrush	2			2		
Woodpecker Sp			1			
Yellow Warbler						1
Yellow-breasted Chat	1					
Yellow-rumped Warbler		1				
Yellow-throated Vireo	1					
Grand Total	42	137	175	26	32	95





Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Alder Flycatcher					1	
American Coot	46	1				
American Goldfinch		6	13	6	4	1
American Robin		1	3	2		
Bald Eagle	1	2	2			
Baltimore Oriole	3	3		1	6	2
Bank Swallow				4		1
Barn Swallow	7	17		2		
Black-capped Chickadee			2	2		1
Black-crowned Night-Heron		2				
Blue Jay		1	63			
Blue-gray Gnatcatcher		2			2	1
Blue-winged Teal	33	30	91			
Brown Thrasher				2	2	
Brown-headed Cowbird			7			1
Canada Goose	12	2	8		2	
Chipping Sparrow	1					
Cinnamon Teal			1			
Cliff Swallow		6				
Common Grackle	27	29	10	16	14	3
Common Yellowthroat	5	16		9	14	2
Dickcissel		1		20	12	9
Downy Woodpecker				1		
Eastern Kingbird	1			5	1	
Eastern Meadowlark	2	10	3	4	3	
Eastern Phoebe			1			
Eastern Wood-Pewee						2
European Starling				1		
Fish Crow			2			
Gadwall			2			
Gray Catbird					1	
Great Blue Heron	5	5	5	10	3	1
Great Egret	4	1	5	21	73	
Greater Yellowlegs	15		15			1
Green Heron	1					
Hooded Merganser		9	10		11	
Horned Lark			2			
Indigo Bunting				3	10	4
Killdeer	3	2	6	9	2	4
Lark Sparrow	3					
Least Bittern	1				4	

Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Lesser Yellowlegs	1	241	12			
Lincoln's Sparrow		1				
Long-billed Dowitcher		3				
Mallard	4	5	8		7	
Marsh Wren	6	24				
Mississippi Kite					1	
Mourning Dove	3	1	1	6	6	2
Northern Bobwhite					2	
Northern Cardinal		2	4		1	
Northern Flicker		1				
Northern Harrier		1				
Northern Rough-winged Swallow	1					1
Northern Shoveler	5		12			
Orchard Oriole	4	1		5	1	2
Pectoral Sandpiper	34	55	41			
Pied-billed Grebe		1	1		2	
Pileated Woodpecker					1	
Prothonotary Warbler						2
Red-bellied Woodpecker					1	
Red-headed Woodpecker						1
Sandhill Crane			1			
Sandpiper Sp	6					
Savannah Sparrow	4	33	6			
Sedge Wren	1					
Solitary Sandpiper		3				
Song Sparrow		3	2		5	
Sora	27	18				
Sparrow Sp	2					
Swamp Sparrow	5	5	5			
Tree Swallow	9	63		3	3	
Virginia Rail	1					
Warbling Vireo		5	9	4	1	6
Western Palm Warbler			1			
White-crowned Sparrow	1	3				
Willow Flycatcher				1		
Wilson's Phalarope		10				
Wilson's Snipe			3			
Wood Duck	1	12	6	1	7	9
Yellow-billed Cuckoo				1	4	
Yellow-rumped Warbler	1					
Grand Total	286	637	363	139	207	56





65642497009VR

2021 Survey Dates
 Migration: April 25th
 Breeding Season: June 22nd
Acreage: 470

Species	Migration				Breeding Season			
	2015	2016	2017	2021	2015	2016	2017	2021
Alder Flycatcher							1	
American Bittern				1				
American Coot	151	9	24	97				
American Crow				1			3	
American Goldfinch		2	2	5	1	1	8	2
American Robin		1	7	6	3	2	3	2
American White Pelican	1							
Bald Eagle	2	2	4	4			1	
Baltimore Oriole		1			3	2	10	2
Bank Swallow	1	14	9					
Barn Swallow	4	7	112	12	3		9	
Barred Owl			2					
Belted Kingfisher	1			3			1	
Black-capped Chickadee				1	2		2	
Black-crowned Night-Heron			1	7				
Black-necked Stilt			17					
Blue Jay	44			107				
Blue-gray Gnatcatcher		1	3	2	2	1	7	2
Blue-winged Teal	150	142	200	375				
Brown Thrasher	2		1				5	
Brown-headed Cowbird		1		2	1			8
Buff-breasted Sandpiper	2							
Canada Goose	13	11	19	64		1	19	
Chimney Swift			1					
Chipping Sparrow	5							
Cliff Swallow		13	28	7	28	23	10	1
Common Grackle	9	14	36	177	2	17	52	21
Common Tern	3		4					
Common Yellowthroat	10	7	21		15	7	21	11
Cooper's Hawk		1						
Dickcissel					11	12	15	21
Double-crested Cormorant			2					
Downy Woodpecker				2	1	1	1	3
Duck Sp	3							
Eastern Kingbird	2	5	5		4	4	7	3
Eastern Meadowlark	6	11	6		12	7	4	1
Eastern Phoebe		2		2				
Eastern Towhee			1			1		
Eastern Tufted Titmouse				1				
Eastern Wood-Pewee					3	1	5	2
European Starling							3	212
Fish Crow	5							
Gadwall				9				

	Migration				Breeding Season			
Species	2015	2016	2017	2021	2015	2016	2017	2021
Gray Catbird						1		1
Great Blue Heron	9	18	7	13	5	1	16	3
Great Crested Flycatcher					1			1
Great Egret	3	1	35		2		113	10
Great Horned Owl				1				
Greater Yellowlegs	7	17	9	32				
Green Heron							1	
Green-winged Teal	1							
Hairy Woodpecker								1
Hooded Merganser			2	2	2		21	3
Horned Lark				1	2			
House Wren			3		1			
Indigo Bunting			1		3	6	12	15
Kentucky Warbler			1					
Killdeer	10	6	15	8	1	17	10	11
King Rail			1				1	
Least Bittern			1		1		6	
Least Sandpiper	2	4	4					
Lesser Yellowlegs	4	16	89	369				
Lincoln's Sparrow		2	4					
Long-billed Dowitcher		15	12					
Louisiana Waterthrush			2					
Mallard	11	4	4	5	7	1	11	5
Marsh Wren	1	3	12		1			
Mourning Dove	2	1	1	6	3	3	10	
Northern Cardinal				13			1	2
Northern Flicker		1	4	1			1	
Northern Harrier	1	1						
Northern Parula			1	4				
Northern Pintail			1	1				
Northern Rough-winged Swallow		12	8	31				
Northern Shoveler	10	11	11	95	2			
Orchard Oriole	1	6	1		6	7	7	5
Pectoral Sandpiper	20	141	35	14				
Peregrine Falcon				1				
Pied-billed Grebe	1		4	5				
Prothonotary Warbler					3	1		1
Red-bellied Woodpecker		2	2	4			1	
Red-headed Woodpecker	2	2	2	2		1	1	2
Red-tailed Hawk				2				
Redhead		1						
Ruby-crowned Kinglet				1				
Sandhill Crane				2				

Species	Migration				Breeding Season			
	2015	2016	2017	2021	2015	2016	2017	2021
Sandpiper Sp	23		22					
Savannah Sparrow	5	17	22	25				
Sedge Wren			1					
Short-billed Dowitcher				4				
Solitary Sandpiper	3	1	13	1				
Song Sparrow	11	3	11	25	9	9	8	9
Sora	20	8	39	26				
Sparrow Sp	5							
Swamp Sparrow	10	7	15	34				
Tree Swallow	30	12	414	296	5	3	12	2
Turkey Vulture		1		2			1	
Virginia Rail				1				
Warbling Vireo	6	3	9	12	4	6		5
Western Palm Warbler		1	11	6				
White-crowned Sparrow	3		12	32				
White-eyed Vireo					1			
White-throated Sparrow			5	3				
Willow Flycatcher								2
Wilson's Phalarope			26	1				
Wilson's Snipe	3		11	38				1
Wood Duck	2	2	4	24	42	12	8	21
Yellow Rail	2							
Yellow Warbler	1	1	5	1	3			
Yellow-billed Cuckoo						2	2	3
Yellow-headed Blackbird			1					
Yellow-rumped Warbler			3	3				
Yellow-throated Vireo				1				
Grand Total	623	564	1401	2033	195	150	430	394



Photo: **Common Grackle** by Paul Moffett





6664241000NKC

2021 Survey Dates
 Migration: April 27th
 Breeding Season: June 15th - 16th
Acreage: 788

Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Coot	91	148		1
American Crow	3	2	1	
American Golden-Plover		1		
American Goldfinch	6	17	2	2
American Pipit		1		
American Robin		1		
American White Pelican		29		
American Wigeon		1		
Baird's Sandpiper		14		
Bald Eagle	2	2		
Baltimore Oriole	1	3	3	1
Bank Swallow	4			
Barn Swallow	15	7	1	2
Barred Owl	2		2	
Bell's Vireo			5	2
Black-capped Chickadee	1	3		
Black-crowned Night-Heron	1			
Black-necked Stilt		1		
Blue Grosbeak				1
Blue Jay	2	25		
Blue-gray Gnatcatcher	5	9		5
Blue-winged Teal	161	640		
Brown Thrasher	4	6	5	
Brown-headed Cowbird	22	15	1	3
Canada Goose	13	43		
Carolina Wren	5		2	
Cedar Waxwing				2
Chipping Sparrow			1	
Cliff Swallow	6			10
Common Grackle	4	6	10	7
Common Yellowthroat	14	16	20	12
Dickcissel		1	47	12
Double-crested Cormorant	8			
Downy Woodpecker		4	1	
Duck Sp			1	
Dunlin		5		
Eastern Bluebird	1		4	
Eastern Kingbird	1	3	9	5
Eastern Meadowlark	2	8	12	1
Eastern Phoebe	3	6	1	
Eastern Towhee	4	3	1	
Eastern Tufted Titmouse	3	9		1
Eastern Wood-Pewee			2	2
European Starling	11		7	1

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Field Sparrow	8	9	7	1
Forster's Tern		4		
Franklin's Gull		30		
Grasshopper Sparrow	2			
Gray Catbird	1		1	
Great Blue Heron	2	6	9	4
Great Crested Flycatcher		2	3	1
Great Egret		1		14
Greater Yellowlegs		10		
Green Heron		5	2	2
Green-winged Teal		19		
Henslow's Sparrow	1	1		
House Sparrow			2	
House Wren	6	1	2	1
Indigo Bunting		1	22	17
Killdeer	10	11	20	36
Least Bittern			2	
Least Flycatcher	1			
Least Sandpiper		67		
Lesser Scaup		1		
Lesser Yellowlegs	13	382		
Little Blue Heron		3		
Long-billed Dowitcher	4	19		
Louisiana Waterthrush	2	1		1
Mallard	5		7	15
Marsh Wren	3	2		
Mourning Dove	2	4	7	3
Nashville Warbler		2		
Northern Bobwhite				1
Northern Cardinal	5	14	11	4
Northern Flicker	1			
Northern Mockingbird		1		
Northern Parula	7	12	5	2
Northern Rough-winged Swallow	11	1	4	
Northern Shoveler	11	92		
Northern Waterthrush		2		
Orange Crowned Warbler		1		
Orchard Oriole		1	3	6
Pectoral Sandpiper	1	226		
Philadelphia Vireo		1		
Pied-billed Grebe	17	9	7	2
Pileated Woodpecker	1			
Prothonotary Warbler	2		2	

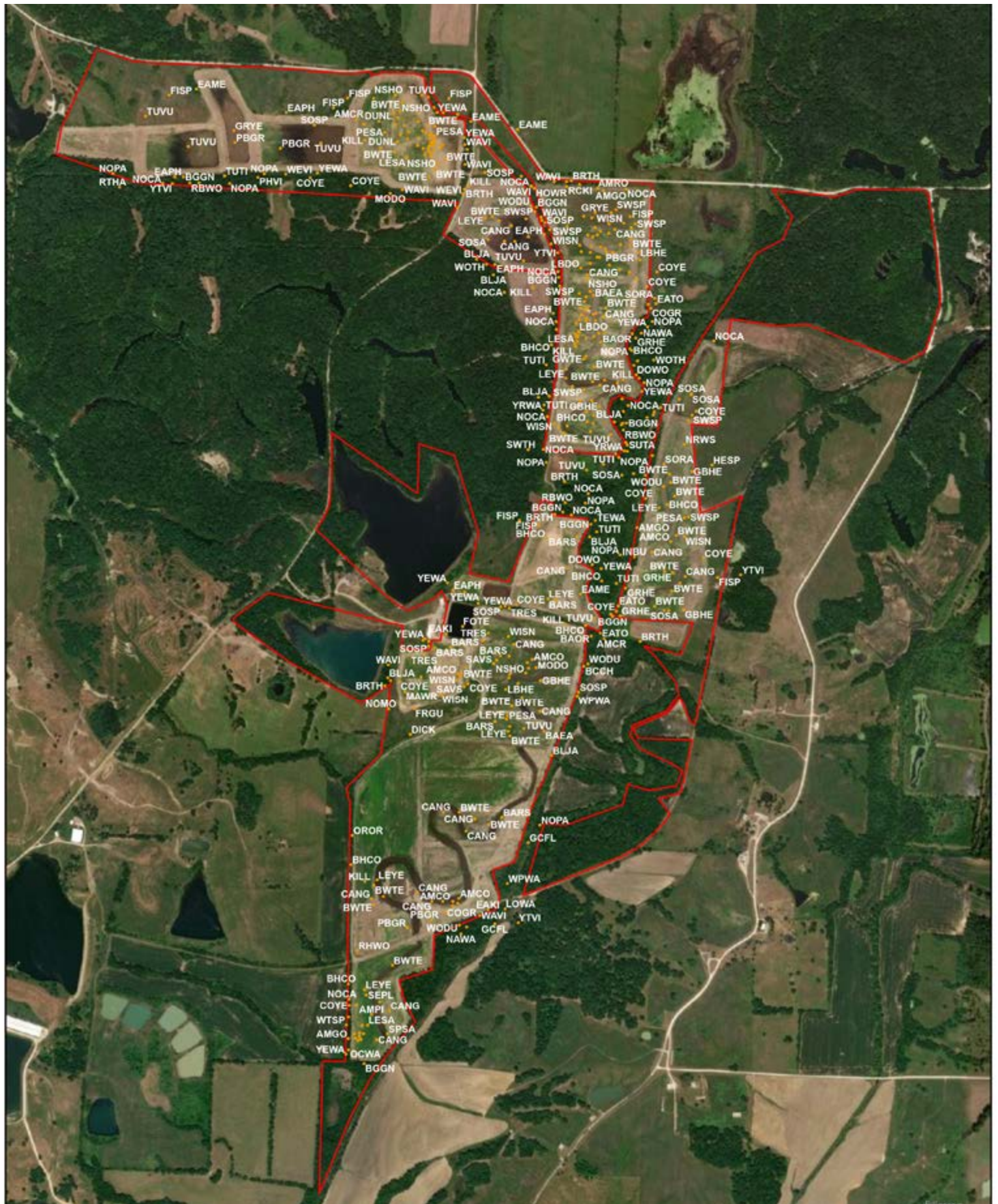
Species	Migration		Breeding Season	
	2019	2021	2019	2021
Purple Martin		1	5	
Red-bellied Woodpecker		4	2	
Red-eyed Vireo				1
Red-headed Woodpecker		1		
Red-shouldered Hawk	1			
Red-tailed Hawk	1	2		1
Ring-necked Duck	2			
Rose-breasted Grosbeak	1			2
Ruby-crowned Kinglet	1	1		
Sandpiper Sp		174		
Savannah Sparrow	5	2		
Scarlet Tanager	1			
Semipalmated Plover		9		
Semipalmated Sandpiper		1		
Solitary Sandpiper	2	7		
Song Sparrow	12	10	22	6
Sora	39	2		
Sparrow Sp	2			
Spotted Sandpiper		2		
Stilt Sandpiper		30		
Summer Tanager		1		
Swainson's Thrush		1		
Swamp Sparrow	2	13		
Tennessee Warbler	1	1		
Tree Swallow	277	15		12
Turkey Vulture	7	16	2	1
Virginia Rail	1			
Warbler Sp		1		
Warbling Vireo	4	14	3	3
Western Palm Warbler		5		
White-eyed Vireo	1	2		
White-rumped Sandpiper		1		
White-throated Sparrow	1	1		
Wild Turkey	2			3
Willow Flycatcher				1
Wilson's Phalarope		18		
Wilson's Snipe	1	8		
Wood Duck	6	12	18	20
Wood Thrush		3		
Yellow Warbler	7	14	4	1
Yellow-billed Cuckoo			2	
Yellow-breasted Chat			3	2
Yellow-crowned Night-Heron	1			
Yellow-rumped Warbler	1	2		
Yellow-throated Vireo	1	5	1	
Grand Total	891	2349	316	233



Photo: Lesser Yellowlegs by MRBO Staff



6664241000NKC - MIGRATION



66642412018GC - E

2021 Survey Dates

Migration: April 16th

Breeding Season: June 26th

Acreage: 73

Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Bittern	1			
American Coot		1		
American Goldfinch		1	1	
American Robin	1	1		1
American Woodcock	3			
Bald Eagle	2	1		
Baltimore Oriole	1			
Barn Swallow	5		1	
Barred Owl	1			1
Black-and-white Warbler	2			
Blue Jay	1			
Blue-winged Teal	40	49		
Brown Thrasher			1	
Brown-headed Cowbird	1	2		
Canada Goose	12	4		
Carolina Wren			1	
Cliff Swallow				4
Common Grackle	3			
Common Yellowthroat	4		4	4
Dickcissel				2
Downy Woodpecker		1		
Eastern Kingbird	3		1	
Eastern Meadowlark		1		
Eastern Phoebe				1
Eastern Tufted Titmouse	1	2		1
Eastern Wood-Pewee			1	
European Starling				2
Field Sparrow		1		
Golden-winged Warbler	2			
Gray Catbird	1		2	
Great Blue Heron	1			
Great Crested Flycatcher			1	1
Green Heron			1	
Hairy Woodpecker				1
Indigo Bunting			2	5
Killdeer			1	
Le Conte's Sparrow		1		
Northern Cardinal	1	2	1	1
Northern Parula	1		1	
Northern Rough-winged Swallow	5			

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Northern Shoveler		1		
Northern Waterthrush	2			
Pectoral Sandpiper		6		
Pileated Woodpecker	1	1		
Red-bellied Woodpecker	1		1	1
Red-headed Woodpecker	1	3	2	
Sedge Wren	2			
Solitary Sandpiper	2			
Song Sparrow	1	1	4	1
Sora	14	2		
Spotted Sandpiper	2			
Swamp Sparrow	1	5		
Tree Swallow			4	
Warbling Vireo	2			
Western Palm Warbler	1			
White-throated Sparrow	1	3		
Wild Turkey	1			
Wilson's Snipe		1		
Wilson's Warbler	1			
Wood Duck	3		1	
Yellow Warbler	2			
Yellow-billed Cuckoo			1	
Yellow-rumped Warbler	2			
Yellow-throated Vireo	2		2	
Grand Total	134	90	34	26



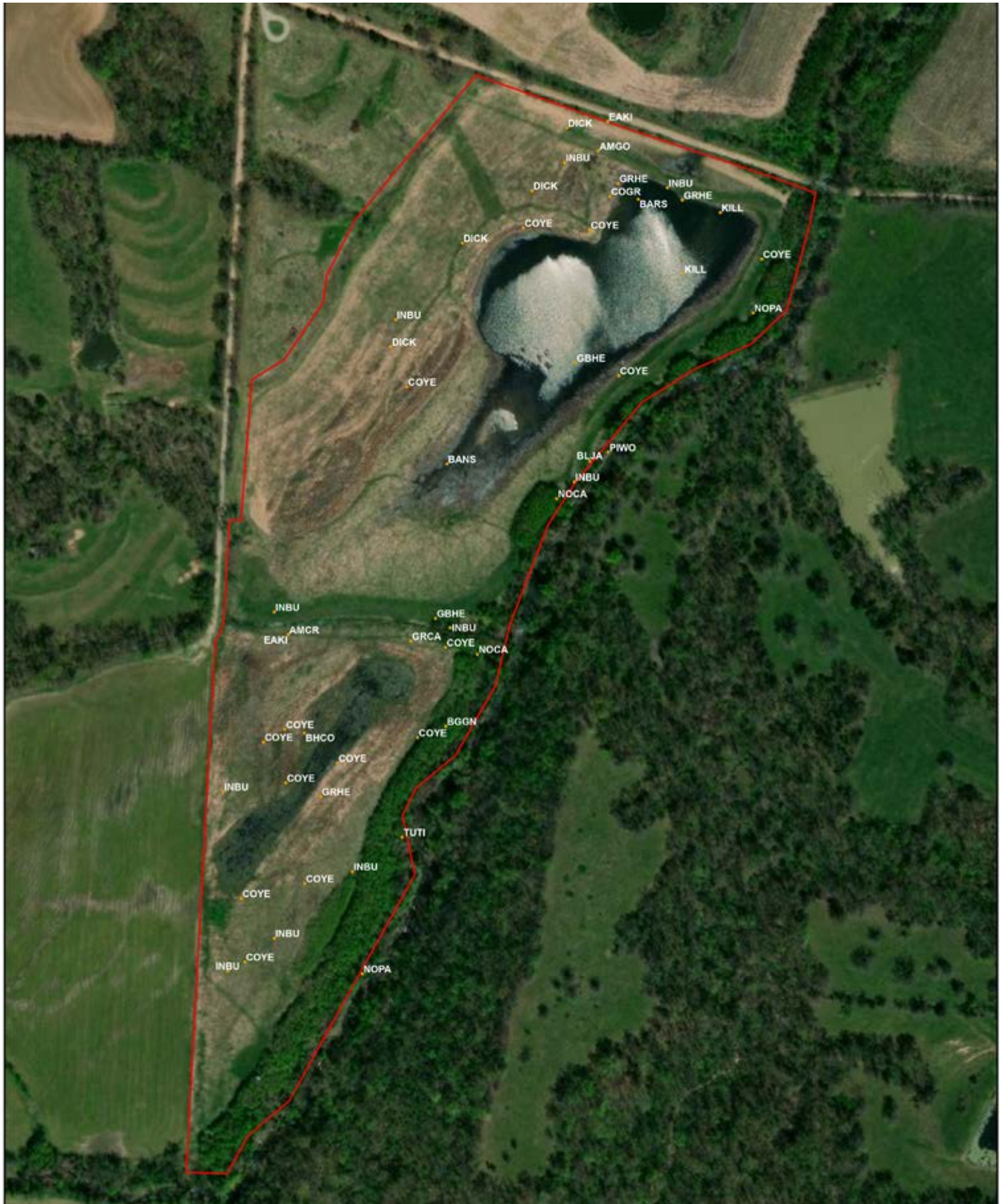


6664241101527

2021 Survey Dates
 Migration: April 23rd
 Breeding Season: July 5th
Acres: 49

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
American Bittern	1					
American Coot	8					
American Crow	3	2		3		1
American Goldfinch				2		1
American Redstart					1	
Bald Eagle		1	1			
Bank Swallow	1			8		9
Barn Swallow	1	1	3			1
Barred Owl		2	1			
Belted Kingfisher	1	1	1	1	1	
Black-capped Chickadee			3			
Blue Jay		2	4			1
Blue-gray Gnatcatcher				1		1
Blue-winged Teal	33		42			
Brown Thrasher			1		1	
Brown-headed Cowbird	1	3	2	1		1
Canada Goose	2	2	4			
Carolina Wren		3		1		
Common Grackle						1
Common Yellowthroat				7	5	14
Dickcissel				12	13	4
Double-crested Cormorant	2					
Downy Woodpecker					1	
Eastern Bluebird	1	1				
Eastern Kingbird				1		2
Eastern Meadowlark				1		
Eastern Phoebe		1	1			
Eastern Towhee	1		1			
Eastern Tufted Titmouse		1	1	1		1
Eastern Wood-Pewee					1	
Field Sparrow		2	4		2	
Gadwall	2					
Gray Catbird				2	4	1
Great Blue Heron	1	1	3		1	2
Great Horned Owl	1		1			
Greater Yellowlegs	4		1			
Green Heron						3
Green-winged Teal	1		4			
Hooded Merganser			1			
Indigo Bunting				5	6	10
Killdeer	1	1	1	1		2
Least Sandpiper			7			
Lesser Scaup	6					

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Lesser Yellowlegs	1		26			
Louisiana Waterthrush		1	2			
Mallard	20					
Marsh Wren	1					
Mourning Dove			1		1	
Northern Bobwhite				2	1	
Northern Cardinal	1	3	5	3	1	2
Northern Flicker	1			1		
Northern Parula			1	1	2	2
Northern Rough-winged Swallow			1			
Northern Shoveler	2					
Orchard Oriole				1		
Pectoral Sandpiper			15			
Pied-billed Grebe	1					
Pileated Woodpecker	1		1		1	1
Rail Sp	1					
Red-bellied Woodpecker	1	2	2	5	1	
Red-shouldered Hawk	1					
Red-tailed Hawk	1			1	1	
Ruby-crowned Kinglet		1				
Sandpiper Sp	2					
Savannah Sparrow			1			
Song Sparrow	3	2	1	1		
Sora	1	4	1			
Sparrow Sp	1					
Swamp Sparrow	6	23	10			
Tree Swallow	4	1			2	
Turkey Vulture		1	2			
Virginia Rail			1			
White-breasted Nuthatch			1			
White-eyed Vireo			1			
White-throated Sparrow	2	1	1			
Wild Turkey			2			
Willow Flycatcher				1		
Wilson's Snipe	4	4	13			
Wood Duck	1	2	2	9	2	
Wood Thrush				1	1	
Yellow Warbler				3	3	
Yellow-billed Cuckoo					1	
Yellow-breasted Chat					1	
Yellow-throated Vireo					1	
Grand Total	127	69	177	76	55	60

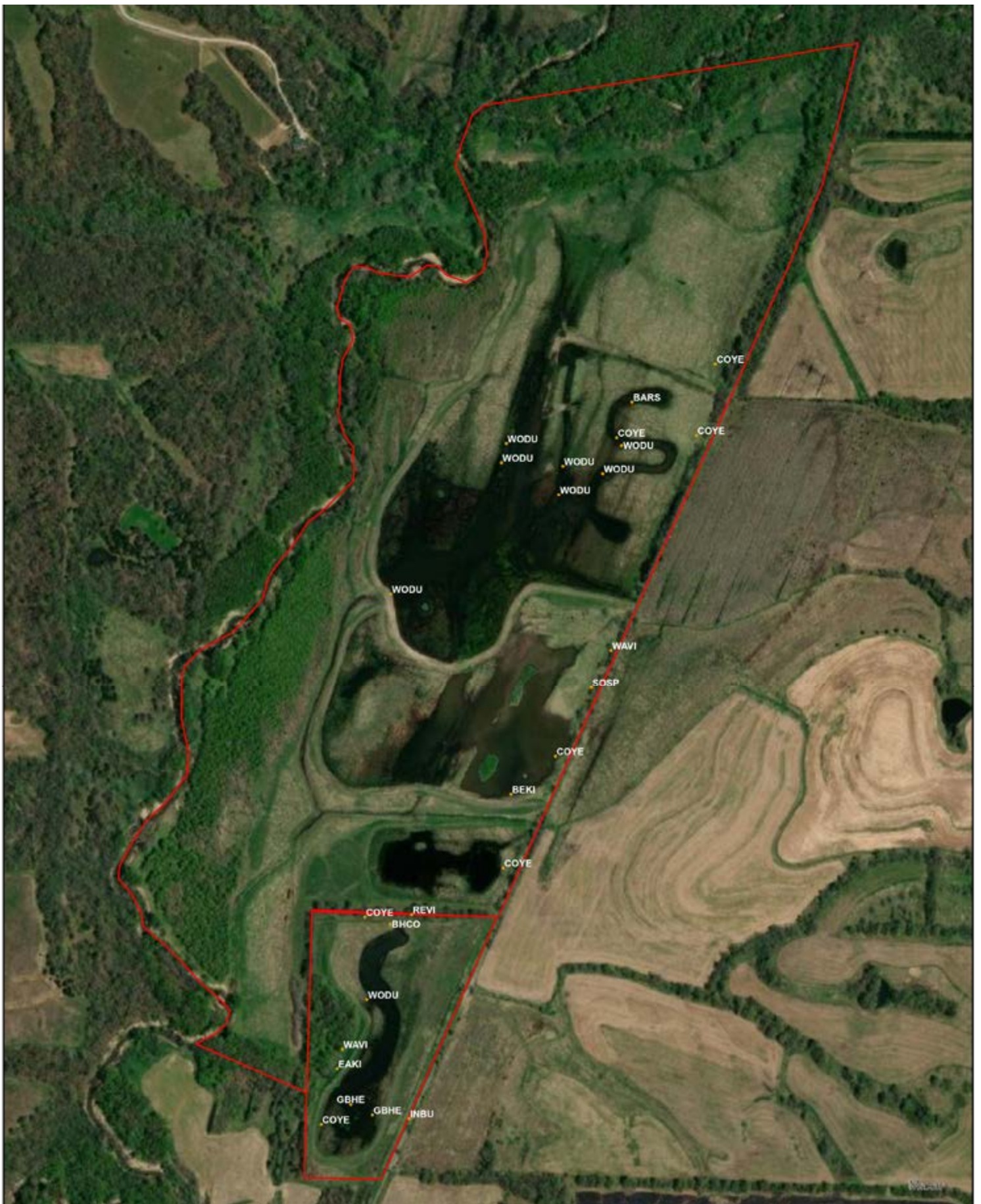


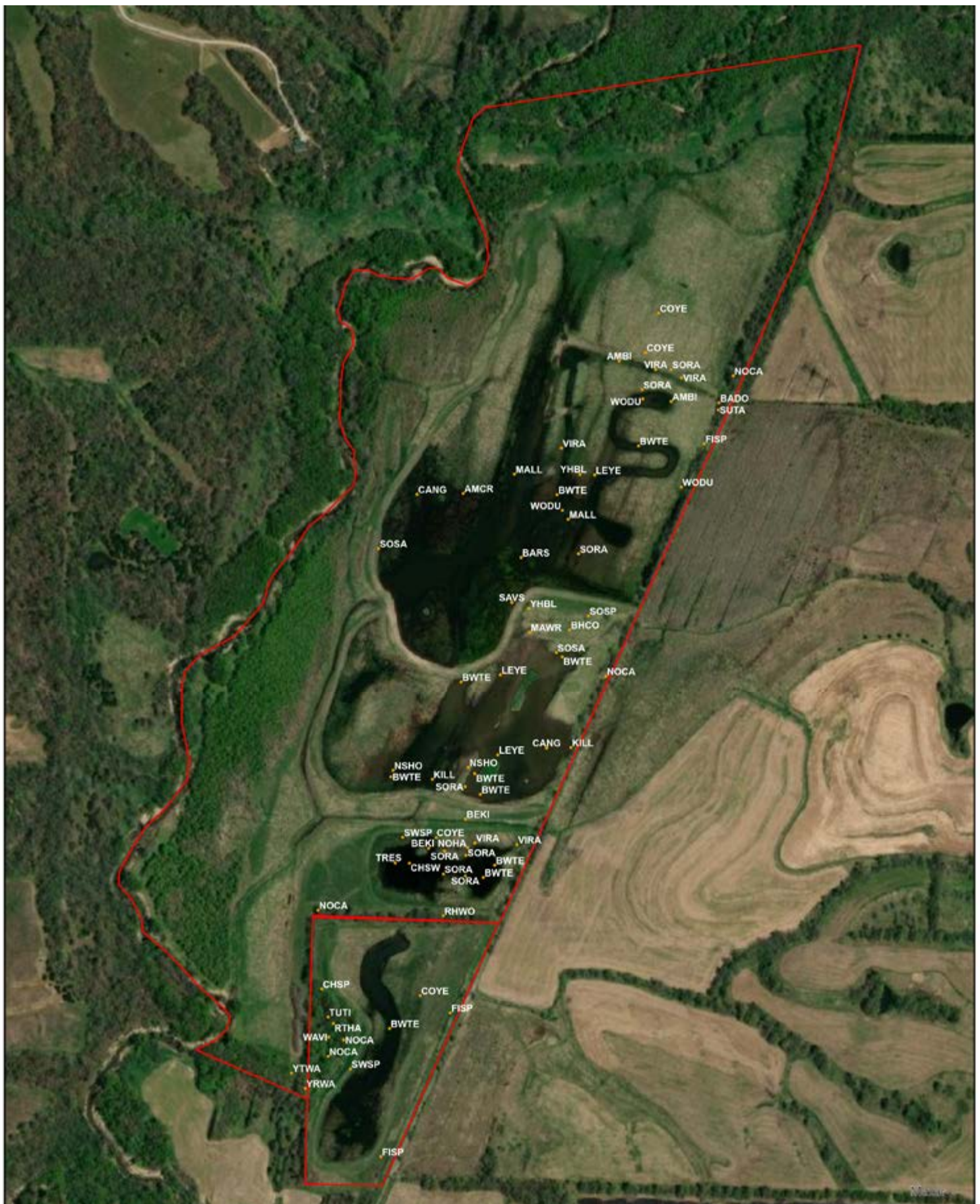


Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
American Bittern		4	2			
American Crow	2	1	1	1		
American Goldfinch	2	1			1	
Baltimore Oriole		1			2	
Barn Swallow		2	1		5	1
Barred Owl	1		1			
Belted Kingfisher			3			1
Black-capped Chickadee	1					
Blue Jay	1	1		1		
Blue-gray Gnatcatcher		1			1	
Blue-winged Teal		23	50			
Brown Thrasher		1				
Brown-headed Cowbird	1	1	1	2		1
Canada Goose	2	35	47	1		
Carolina Wren	1	2			4	
Chimney Swift			1			
Chipping Sparrow			1			
Common Grackle		7			6	
Common Yellowthroat		15	4	3	7	7
Dickcissel		1			3	
Downy Woodpecker	1	1			4	
Duck Sp					1	
Eastern Bluebird	1	4				
Eastern Kingbird		3			3	1
Eastern Meadowlark					2	
Eastern Tufted Titmouse	1		1	1		
Eastern Wood-Pewee				1	3	
Field Sparrow	3	2	3			
Forster's Tern		1				
Gray Catbird		1			1	
Great Blue Heron		1			4	2
Great Crested Flycatcher					1	
Greater Yellowlegs		5				
Green Heron		1				
Green-winged Teal					2	
Hooded Merganser		3				
House Wren		3		1		
Indigo Bunting		5		5	9	1
Killdeer		3	2			
Least Flycatcher		1				
Lesser Yellowlegs		6	5			
Louisiana Waterthrush					1	
Mallard		3	4		2	
Marsh Wren		3	1			

66642495009DQ & 6664241000YC6

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Mourning Dove	1					
Northern Bobwhite		3		4	1	
Northern Cardinal	3	4	5		5	
Northern Flicker	1					
Northern Harrier			1			
Northern Parula					1	
Northern Rough-winged Swallow		6			1	
Northern Shoveler			4			
Northern Waterthrush		3				
Orchard Oriole		1				
Ovenbird				1		
Pectoral Sandpiper		2				
Pied-billed Grebe		4			5	
Pileated Woodpecker					1	
Red-bellied Woodpecker	1	1		1		
Red-eyed Vireo						1
Red-headed Woodpecker	1	1	1			
Red-shouldered Hawk					1	
Red-tailed Hawk			1			
Rose-breasted Grosbeak		5				
Ruby-crowned Kinglet	1					
Savannah Sparrow		2	2			
Solitary Sandpiper		3	11			
Song Sparrow	1	2	1			1
Sora		20	8			
Summer Tanager			1	1		
Swamp Sparrow	1		2			
Tree Swallow		10	5	1	5	
Virginia Rail		8	5			
Warbling Vireo		3	1		1	2
Western Palm Warbler		3				
White-breasted Nuthatch	1					
White-eyed Vireo				1		
White-throated Sparrow	1					
Wild Turkey	1					
Wood Duck		7	13		24	15
Woodpecker Sp	1					
Yellow Warbler		2			2	
Yellow-billed Cuckoo				2	2	
Yellow-breasted Chat		2		1	2	
Yellow-headed Blackbird			2			
Yellow-rumped Warbler	1	3	1			
Yellow-throated Vireo		1				
Yellow-throated Warbler			1			
Grand Total	32	238	193	28	113	33

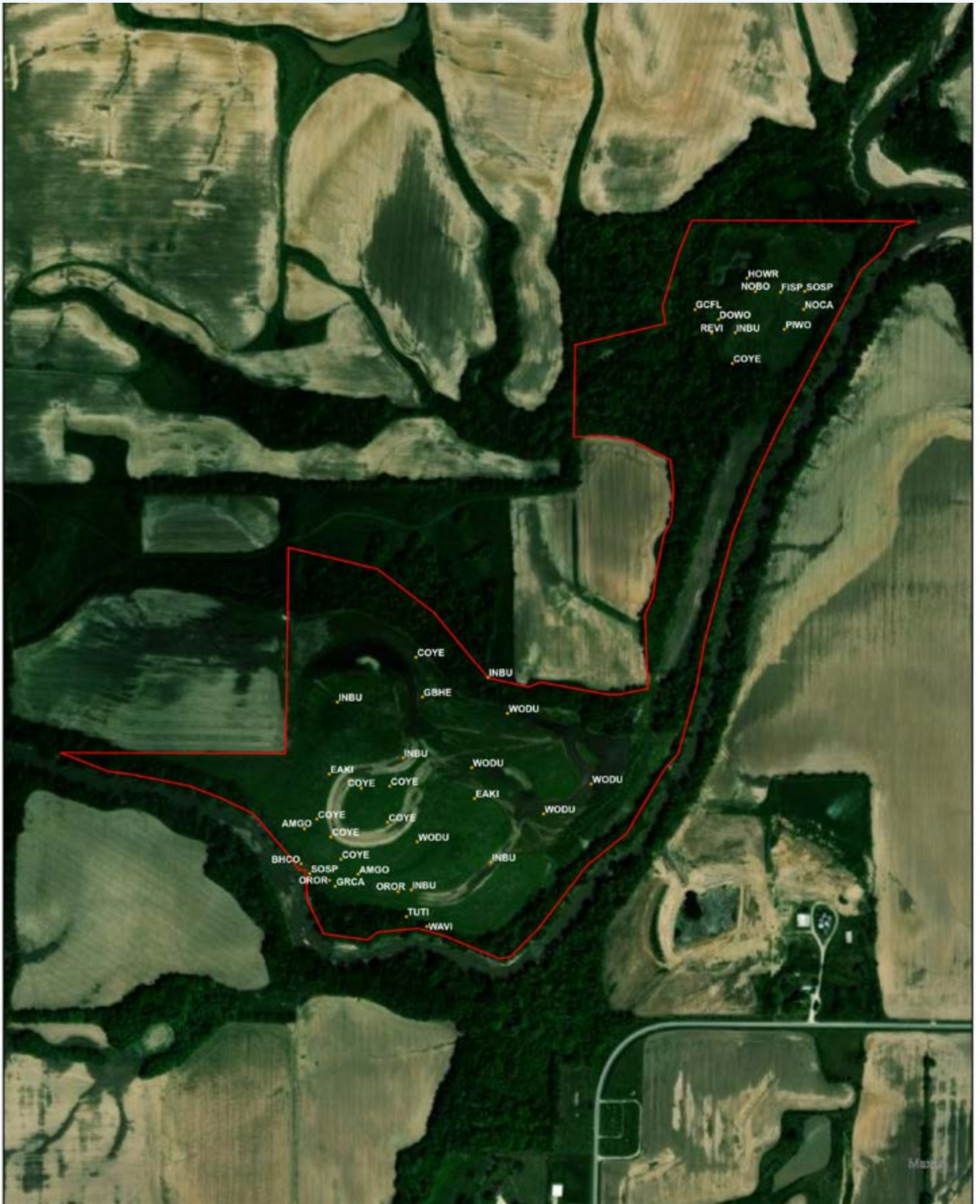


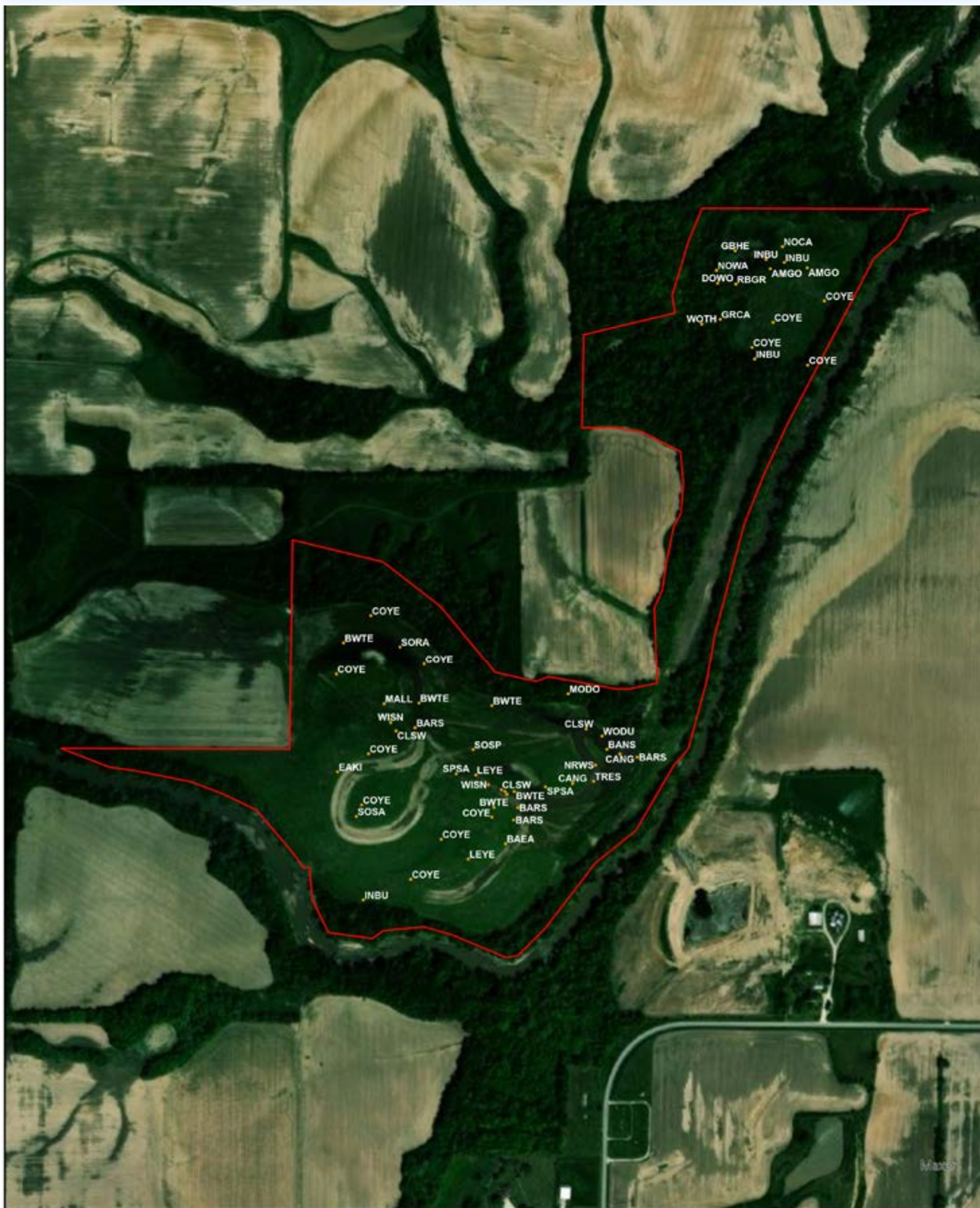


6664241201973

2021 Survey Dates
 Migration: May 4th
 Breeding Season: June 28th
Acreage: 98

	Migration	Breeding Season
Species	2021	2021
American Goldfinch	2	3
Bald Eagle	1	
Bank Swallow	1	
Barn Swallow	5	
Blue-winged Teal	8	
Brown-headed Cowbird		1
Canada Goose	3	
Cliff Swallow	26	
Common Yellowthroat	12	8
Downy Woodpecker	1	1
Eastern Kingbird	2	3
Eastern Tufted Titmouse		1
Field Sparrow		1
Gray Catbird	2	1
Great Blue Heron	1	2
Great Crested Flycatcher		1
House Wren		1
Indigo Bunting	4	6
Lesser Yellowlegs	9	
Mallard	1	
Mourning Dove	1	
Northern Bobwhite		1
Northern Cardinal	1	1
Northern Rough-winged Swallow	4	
Northern Waterthrush	1	
Orchard Oriole		2
Pileated Woodpecker		1
Red-eyed Vireo		1
Rose-breasted Grosbeak	1	
Solitary Sandpiper	1	
Song Sparrow	1	2
Sora	1	
Spotted Sandpiper	2	
Tree Swallow	9	
Warbling Vireo		1
Wilson's Snipe	2	
Wood Duck	1	16
Wood Thrush	1	
Grand Total	104	54





Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Bittern	2			
American Crow	1			
American Goldfinch	1			
American Redstart	1			
Bald Eagle	1	2		3
Baltimore Oriole	4			
Barn Swallow	5			
Barred Owl		2		
Belted Kingfisher				1
Black-and-white Warbler	2			
Black-capped Chickadee				3
Blue Jay	2	4		
Blue-gray Gnatcatcher	1	1		2
Blue-winged Teal	3	4		
Blue-winged Warbler	3			
Brown Thrasher	1			
Brown-headed Cowbird		3		2
Canada Goose	4	9		8
Carolina Wren	1		1	
Cliff Swallow				1
Common Grackle		1		
Common Yellowthroat	8		3	4
Dickcissel				1
Downy Woodpecker	1	1		4
Eastern Kingbird	1			1
Eastern Towhee				2
Eastern Tufted Titmouse	1	2		
Eastern Wood-Pewee			1	
Field Sparrow		1		
Golden-winged Warbler	1			
Gray Catbird	2		3	1
Great Blue Heron			1	10
Great Crested Flycatcher	1		1	2
Great Egret	1			
Greater Yellowlegs	11			
Green Heron	2			3
Indigo Bunting	1		2	6
Louisiana Waterthrush				2
Mallard		2		
Marsh Wren	1			
Mourning Dove	2		1	
Northern Cardinal	2	5	4	2
Northern Parula	3	4	1	1
Northern Rough-winged Swallow	5			

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Northern Waterthrush	7			
Orchard Oriole	1			1
Pied-billed Grebe	1	1		
Pileated Woodpecker		1		
Prothonotary Warbler				1
Purple Martin			3	
Red-bellied Woodpecker	1	1	1	
Red-headed Woodpecker	2	2		4
Red-shouldered Hawk	1			
Rose-breasted Grosbeak	1			2
Ruby-crowned Kinglet		1		
Ruby-throated Hummingbird				1
Sedge Wren	1			
Solitary Sandpiper	2			
Song Sparrow	4	3		2
Sora	10	4		
Summer Tanager	1			
Swamp Sparrow	5	13		
Turkey Vulture	3			
Virginia Rail		1		
Warbling Vireo	2			
Western Palm Warbler	3			
White-eyed Vireo	1			
White-throated Sparrow	2	3		
Wild Turkey		3		
Wood Duck	5	11		13
Yellow Warbler			2	
Yellow-billed Cuckoo				1
Yellow-rumped Warbler	6			
Yellow-throated Vireo	3			
Yellow-throated Warbler		1	1	
Grand Total	137	86	25	84

Photo: **Great Blue Heron** by Bob Estes





66642412018JK

2021 Survey Dates
 Migration: May 2nd
 Breeding Season: June 26th
Acreage: 44

Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Crow	1		1	
American Goldfinch	2	1	1	
American Robin			2	
American White Pelican	31			
Baltimore Oriole	1	1		
Barred Owl			1	2
Black-capped Chickadee				3
Blackpoll Warbler		1		
Blue Grosbeak			1	
Blue Jay				1
Blue-gray Gnatcatcher		1	2	2
Blue-winged Teal	9	16		
Brown-headed Cowbird	2		1	
Canada Goose	2	53		
Chimney Swift				2
Common Yellowthroat	8	2	3	3
Dickcissel	1		2	2
Downy Woodpecker				1
Eastern Kingbird	1	3	1	2
Eastern Tufted Titmouse	1	1		
Field Sparrow			1	1
Gray Catbird	1		2	1
Great Blue Heron	1		1	
Great Crested Flycatcher		1	2	1
Greater Yellowlegs		1		
Indigo Bunting	2		6	2
Killdeer		1		1
Least Sandpiper		1		
Lesser Yellowlegs	20	10		
Mallard	1		1	
Mourning Dove	2	2	1	
Northern Cardinal	3	1	4	3
Northern Flicker			1	
Northern Parula			1	
Northern Waterthrush	1	5		
Pectoral Sandpiper		1		
Peregrine Falcon		1		
Red-headed Woodpecker	1	1		3
Rose-breasted Grosbeak		1		2
Semipalmated Plover		1		
Semipalmated Sandpiper		1		
Solitary Sandpiper	6	7		
Song Sparrow	2	1	5	1

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Sora	1			
Tennessee Warbler		2		
Tree Swallow				1
Warbling Vireo	1	1		
Western Palm Warbler		2		
White-breasted Nuthatch		1		
White-rumped Sandpiper		3		
White-throated Sparrow	2			
Wilson's Snipe		1		
Wood Duck	2	2	2	2
Yellow-billed Cuckoo			2	
Yellow-rumped Warbler		4		
Yellow-throated Vireo		1		
Grand Total	105	132	44	36



Photo: **American White Pelicans** by Buddy Woods Jr.





Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Bittern		1		1
American Coot		5		
American Crow	5			
American Goldfinch		6		
Bald Eagle	2			
Baltimore Oriole	2		1	
Barn Swallow	2	3		4
Belted Kingfisher				1
Black-and-white Warbler	1			
Black-capped Chickadee	1			
Black-crowned Night-Heron	2			
Blue Jay	2			
Blue-winged Teal	64	28		1
Brown-headed Cowbird	1			
Canada Goose	3	5		8
Cliff Swallow				2
Common Grackle	1		3	6
Common Yellowthroat	19	13	9	13
Dickcissel	2		4	1
Downy Woodpecker	2		1	
Duck Sp				1
Eastern Kingbird	5	1	1	4
Eastern Meadowlark	3		1	
Eastern Wood-Pewee			1	
Gray Catbird	2			1
Great Blue Heron	1	4	2	1
Great Crested Flycatcher	1			
Greater Yellowlegs	1			
Green Heron	1		1	
House Wren	1			
Indigo Bunting			5	
Killdeer	1			2
Least Bittern			1	3
Lesser Yellowlegs		7		
Mallard	2		7	1
Marsh Wren		2		3
Northern Cardinal	4		3	
Northern Rough-winged Swallow		3		
Northern Shoveler		1		
Orchard Oriole		1		
Pied-billed Grebe		2		
Pileated Woodpecker	1			
Prothonotary Warbler		1	1	1

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Red-bellied Woodpecker	3			
Red-headed Woodpecker	1		3	
Red-shouldered Hawk	1			
Sedge Wren		1		
Song Sparrow	12	3	12	1
Sora	9	4		
Tree Swallow	53		2	
Warbling Vireo	1	1		
Western Palm Warbler	1			
White-breasted Nuthatch	1			
White-throated Sparrow	1			
Willow Flycatcher		1		2
Wood Duck	2	7	15	5
Yellow-rumped Warbler	1			
Yellow-throated Vireo	2		1	
Grand Total	220	100	74	62



Photo: **American Goldfinch** by Shirley Piggott



Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Bittern		1		
American Coot	7	87		
American Robin	1		2	
American White Pelican		22		
Bald Eagle	2		1	
Baltimore Oriole				1
Barn Swallow	1			
Blackpoll Warbler		1		
Blue Jay	2		1	2
Blue-winged Teal	45	26		4
Brown Thrasher	1			
Brown-headed Cowbird	1	1		
Canada Goose	6	46		2
Chimney Swift	9			
Cliff Swallow	1			2
Common Grackle	1			
Common Yellowthroat	22	1	11	6
Double-crested Cormorant		1	1	
Downy Woodpecker				1
Eastern Kingbird	2		1	1
Eastern Wood-Pewee			2	
Gray Catbird	3		3	
Great Blue Heron		1	1	5
Great Crested Flycatcher	2	1	1	1
Great Egret		3		
Great Horned Owl	1			
Green Heron		1	1	5
Hairy Woodpecker			1	
House Wren	2		1	
King Rail	1			
Mallard	2	4		4
Marsh Wren	21	4		
Mourning Dove	2			1
Nashville Warbler	1			
Northern Bobwhite				1
Northern Cardinal	3			
Northern Flicker			1	1
Northern Shoveler	11			
Northern Waterthrush	1			
Orchard Oriole	1			
Pied-billed Grebe	5	1		
Purple Martin			1	1
Red-bellied Woodpecker	1		1	

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Red-headed Woodpecker			4	
Red-shouldered Hawk				1
Ring-necked Duck	2			
Rose-breasted Grosbeak	2			
Ruby-crowned Kinglet	1			
Sedge Wren	2			
Song Sparrow	4	1	3	5
Sora	24	6		
Spotted Sandpiper	1			
Swamp Sparrow	5			
Tree Swallow	49			
Trumpeter Swan		6		
Virginia Rail	10			
Warbling Vireo	3		3	
Western Palm Warbler	2			
White-breasted Nuthatch			2	
White-throated Sparrow	1			
Wood Duck	2	1	3	8
Yellow Warbler	2			
Yellow-billed Cuckoo			1	
Yellow-rumped Warbler	3			
Grand Total	271	215	46	52





Species	Migration		Breeding Season	
	2019	2021	2019	2021
American Crow	1			
American Goldfinch	1		1	2
American Redstart	1	1		
Baltimore Oriole	2	1		
Barn Swallow	4			
Barred Owl	1			
Belted Kingfisher	1			
Black-and-white Warbler		1		
Blue Jay	4	1		
Blue-gray Gnatcatcher	1			1
Blue-winged Teal	30	17	1	
Blue-winged Warbler	2			
Brown-headed Cowbird	1		1	
Canada Goose	6	4		
Carolina Wren	1		1	
Chimney Swift	1			
Common Grackle	4			1
Common Yellowthroat	9	8	1	7
Dickcissel	3	4	13	5
Downy Woodpecker			2	
Eastern Kingbird		2	3	1
Eastern Meadowlark	1		1	
Eastern Tufted Titmouse	2	2		
Eastern Wood-Pewee			2	
Gadwall	1			
Golden-winged Warbler	2			
Gray Catbird	3	1	2	2
Great Blue Heron	3		3	1
Great Crested Flycatcher	2	2	1	
Great Egret	2			1
Great Horned Owl	1			
Green Heron	1	1		1
Hairy Woodpecker		2		
Hooded Merganser		1		
House Wren			2	
Indigo Bunting	1	2	9	2
Killdeer	3	1	5	3
Least Bittern			1	
Least Sandpiper	1			
Lesser Yellowlegs	7	13		
Lincoln's Sparrow	1			
Mallard	3	1	1	2
Marsh Wren	1	1		

Species	Migration		Breeding Season	
	2019	2021	2019	2021
Northern Cardinal	1	3	1	
Northern Parula	1	1	2	
Northern Rough-winged Swallow	1			
Northern Waterthrush	1			
Orchard Oriole			1	2
Pileated Woodpecker	1			
Prothonotary Warbler		1	1	1
Red-bellied Woodpecker	1		2	
Red-eyed Vireo	1			
Red-headed Woodpecker		1		
Red-shouldered Hawk	1	1		
Rose-breasted Grosbeak		1		
Savannah Sparrow	1			
Sedge Wren			1	
Solitary Sandpiper		1		
Song Sparrow	4	3	4	4
Sora	1			
Spotted Sandpiper	4	1		
Swamp Sparrow	1			
Tennessee Warbler		1		
Warbling Vireo	4	2		2
White-breasted Nuthatch	1			
Wild Turkey	1			
Wilson's Phalarope		1		
Wilson's Warbler		1		
Wood Duck	17	5	5	4
Yellow Warbler	1	1		
Yellow-billed Cuckoo				1
Yellow-rumped Warbler	1			
Yellow-throated Vireo	1			
Grand Total	153	90	67	43





WET REGION 3 OVERVIEW

Survey coverage in WET Region 3 in 2021.

<i>Easement</i>	<i>County</i>	<i>Site Acreage</i>	<i># Transects</i>	<i>Migration Visit</i>	<i>Breeding Visit</i>
666424030098J	Pemiscot	194	8	4/9	5/22
5464241701N69	New Madrid	832	13	4/8	5/17 & 5/21
5464241401FSR	Stoddard	660	5	4/9	5/28
6664240800N20	Dunklin	362	5	4/2	5/14
66642404009BL	Bollinger	208	5	4/7	5/24
6664240300931	Bollinger	120	2	4/3	5/23
66642407009TC	Pemiscot	4511	31	inaccessible	5/15 & 5/16 (half of area not surveyed due to inaccessibility)
66642412018FD	Stoddard	79	2	4/5	5/23
666424040099Y	Dunklin	178	5	4/2	5/24
6664241000YT1 - S	Dunklin	173	5	4/1	5/13
66642496009JY	Bollinger	277	8	4/4	5/18
6664241000YT1 - N	Dunklin	52	3	4/1	5/11
6664240000B3V	Bollinger	88	4	4/7	5/28
66642412018ZW	New Madrid	66	3	4/6	5/18
66642412018DW & 6664240900X2K	Bollinger	253	10	4/6	5/25
6664241000ZN0	Stoddard	80	2	4/4	5/27
66642407009TT	New Madrid	271	7	4/5	5/20
66642496009JZ	Stoddard	132	3	4/7	5/27
6664240800MYJ	New Madrid	147	4	4/3	5/21
66642405009GX	New Madrid	386	8	4/4	5/19

666424030098J

2021 Survey Dates

Migration: April 9th

Breeding Season: May 22nd

Acreage: 194

Species	Migration			Breeding Season	
	2016	2020	2021	2016	2021
Alder Flycatcher				1	
American Bittern	2				
American Coot	55	6	19		
American Crow	5	5	1	2	1
American Golden-Plover			1		
American Goldfinch		6	4	2	2
American Robin		2	1		
American White Pelican				14	
Bald Eagle	1	1	1	7	
Baltimore Oriole				5	
Barn Swallow		2	2	2	
Barred Owl	1		1		1
Bell's Vireo					1
Belted Kingfisher			4	1	
Blue Jay			7		
Blue-gray Gnatcatcher		11	13		7
Blue-winged Teal	90	8	86	5	
Brown Thrasher		2			
Brown-headed Cowbird	7	37	8		5
Carolina Chickadee		1	6		1
Carolina Wren	1	10			1
Cedar Waxwing					28
Chipping Sparrow					1
Common Grackle		4	1	7	17
Common Tern				4	
Common Yellowthroat		3	9	21	12
Dickcissel				98	26
Double-crested Cormorant				6	
Downy Woodpecker	1		1	1	1
Duck Sp			18	6	
Eastern Meadowlark	4	2	2	3	
Eastern Phoebe		1			
Eastern Towhee		16	13		4
Eastern Tufted Titmouse		4			1
Eastern Wood-Pewee				1	
Field Sparrow	21	67	84	32	10
Fish Crow		1			
Gadwall			6		
Golden-crowned Kinglet		2			
Goose Sp		1			
Gray Catbird				3	
Great Blue Heron	4	4	2		
Great Egret	45	3		4	20

666424030098J

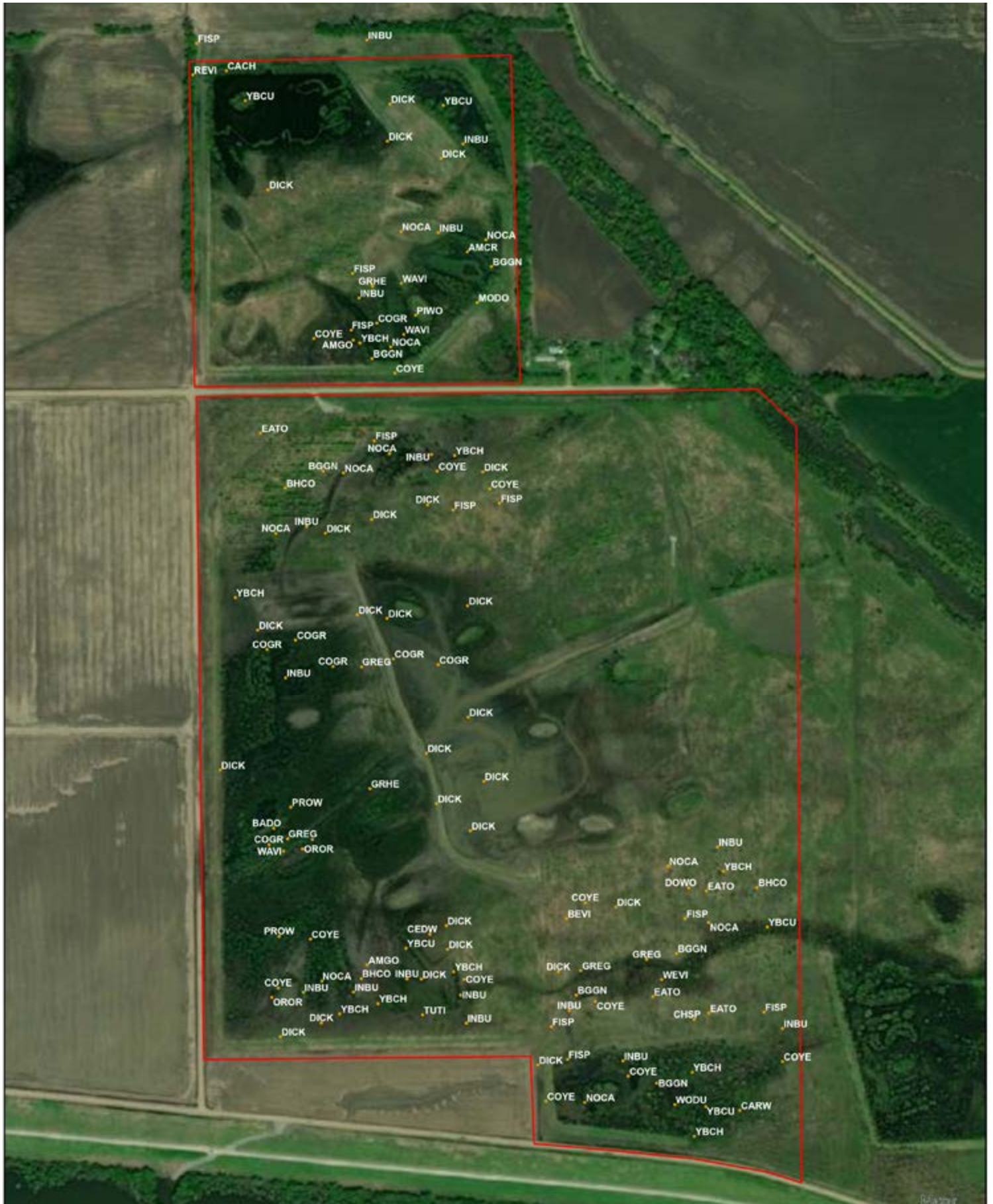
Species	Migration			Breeding Season	
	2016	2020	2021	2016	2021
Greater Yellowlegs	73	10	1		
Green Heron				2	2
Green-winged Teal		1			
Hooded Merganser		5	14		
Horned Lark			1		
House Wren		2		2	
Indigo Bunting				40	17
Killdeer	3	1	5	2	
King Rail	1				
Lesser Yellowlegs	8	5	1		
Little Blue Heron			1		
Long-billed Dowitcher	6				
Louisiana Waterthrush			2	2	
Mallard	17	3	3	5	
Marsh Wren		3			
Mourning Dove	1	6	4	4	1
Northern Bobwhite			1	2	
Northern Cardinal	2	22	25	5	10
Northern Flicker	2	3	1	1	
Northern Harrier	3	2	1		
Northern Parula		2	1		
Northern Rough-winged Swallow				3	
Northern Shoveler	29	4	34		
Orchard Oriole				2	2
Pectoral Sandpiper	19		1		
Pied-billed Grebe	4	3	1		
Pileated Woodpecker			2		1
Prothonotary Warbler				5	2
Red-bellied Woodpecker		1	4	2	
Red-breasted Merganser			4		
Red-eyed Vireo					1
Red-shouldered Hawk			1	1	
Ruby-crowned Kinglet			1		
Sandpiper Sp	1	1			
Savannah Sparrow			4		
Sedge Wren		2			
Solitary Sandpiper		2			
Song Sparrow	2		1	1	
Sora		5	1	1	
Sparrow Sp	2		1		
Swamp Sparrow	8	81	35	1	
Tree Swallow	8				
Virginia Rail		2			

666424030098J

Species	Migration			Breeding Season	
	2016	2020	2021	2016	2021
Warbling Vireo		4		1	3
White-eyed Vireo					1
White-throated Sparrow		1			
Wild Turkey		1	1		
Wilson's Snipe	7	8	1	1	
Wood Duck		7		53	1
Yellow Warbler				1	
Yellow-billed Cuckoo				2	5
Yellow-breasted Chat				3	9
Yellow-rumped Warbler		1	1		
Grand Total	433	387	444	367	194



Photo: Cedar Waxwing by Marvin De Jong





5464241701N69

2021 Survey Dates

Migration: April 8th

Breeding Season: May 17th & May 21st

Acres: 832

Species	Migration		Breeding Season	
	2018	2021	2018	2021
Acadian Flycatcher			1	
American Crow	1	3	3	
American Golden-Plover		1		
American Robin	1	2		
American White Pelican	150			
Bald Eagle	5	4	4	2
Baltimore Oriole			2	
Barn Swallow	1	2	2	1
Barred Owl	1	2	1	
Black-necked Stilt	2			
Blue Grosbeak			1	2
Blue Jay	5		3	
Blue-gray Gnatcatcher	2	1	3	
Blue-winged Teal	30	8		
Brown-headed Cowbird	4	29	24	1
Canada Goose		1		
Carolina Chickadee	1	7	1	
Carolina Wren	11	2	8	
Chimney Swift				2
Chipping Sparrow	1	1		
Common Grackle	2	1		
Common Nighthawk			1	
Common Yellowthroat			3	
Dickcissel			8	93
Double-crested Cormorant		1		
Downy Woodpecker		5	3	
Dunlin	2			
Eastern Bluebird	1			
Eastern Meadowlark		14		3
Eastern Phoebe		4		
Eastern Towhee	2			
Eastern Tufted Titmouse	5	3	13	
Eastern Wood-Pewee			9	1
Field Sparrow	5	13	7	
Fish Crow	8	2	1	5
Great Blue Heron	1			
Great Crested Flycatcher			17	3
Great Egret	4			
Great Horned Owl		1		

Species	Migration		Breeding Season	
	2018	2021	2018	2021
Greater White-fronted Goose	140			
Greater Yellowlegs	28	10		
Horned Lark	13	8	11	
House Wren		1		
Indigo Bunting			23	13
Killdeer	28	9	14	4
Lark Sparrow			2	2
Least Sandpiper	7			
Lesser Yellowlegs	31	40		
Long-billed Dowitcher		7		
Mourning Dove	4	4	10	2
Northern Bobwhite		1		1
Northern Cardinal	4	11	6	3
Northern Flicker	2		4	
Northern Harrier	1			
Northern Mockingbird			1	
Northern Parula		3		
Northern Rough-winged Swallow		1		
Orange Crowned Warbler		1		
Pectoral Sandpiper	181	175		
Pileated Woodpecker	2	1	1	
Prothonotary Warbler			1	
Red-bellied Woodpecker	7	6	8	
Red-headed Woodpecker			3	1
Red-shouldered Hawk		1		
Red-tailed Hawk	1	1		
Ring-billed Gull	3			
Rose-breasted Grosbeak				1
Ruby-crowned Kinglet		1		
Ruby-throated Hummingbird			1	
Sandpiper Sp	706			
Savannah Sparrow	6	137		2
Sedge Wren		1		
Snow Goose	15			
Solitary Sandpiper	3	8		
Song Sparrow	1			
Sparrow Sp	1	25		

5464241701N69

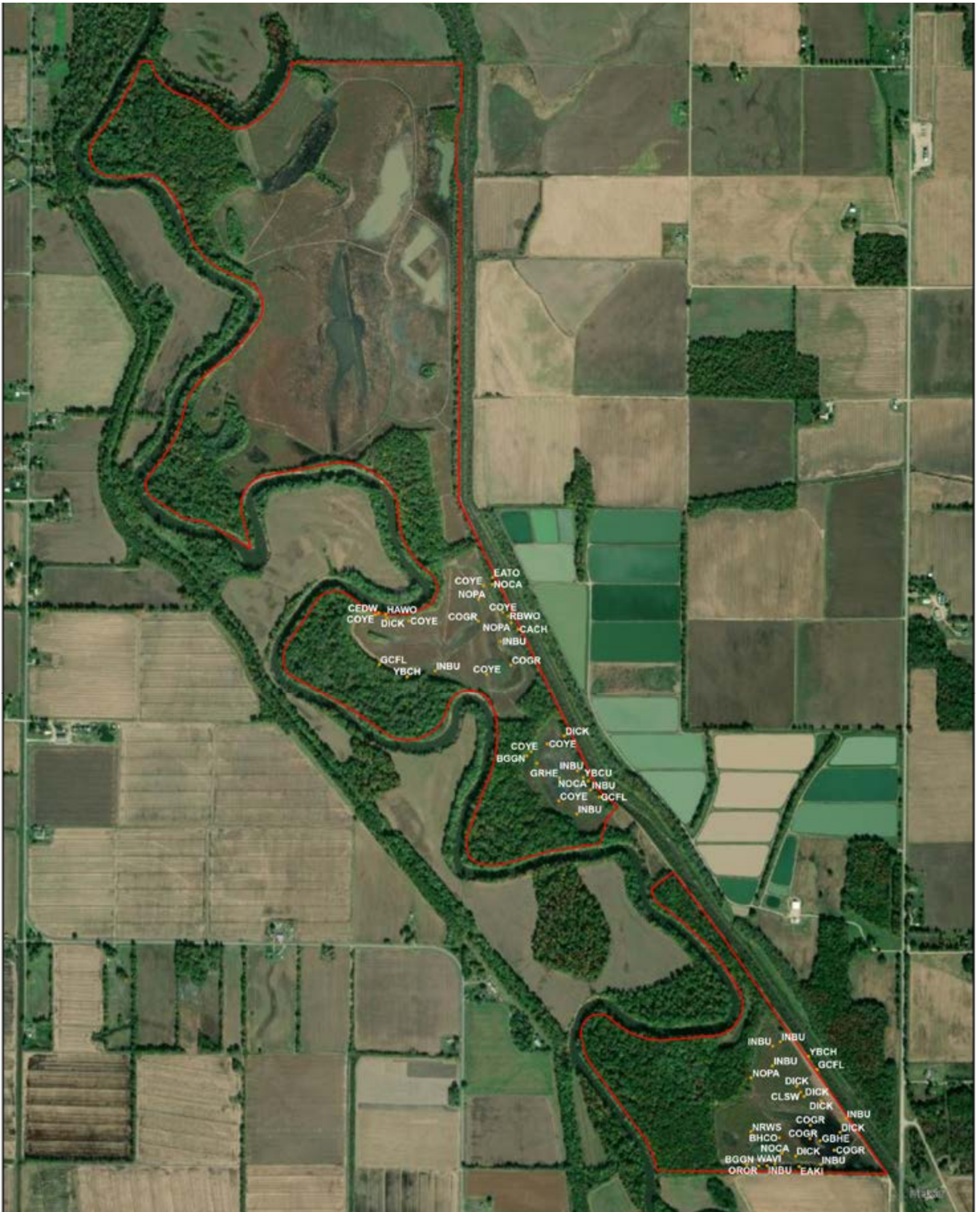
Species	Migration		Breeding Season	
	2018	2021	2018	2021
Summer Tanager			3	1
Swallow Sp	1			
Swamp Sparrow	1	64		
Tree Swallow		1		
Turkey Vulture	1	1		
White-breasted Nuthatch	1	1	1	
White-eyed Vireo		2		
White-rumped Sandpiper	12			
White-throated Sparrow	3			
Wild Turkey		1		1
Wilson's Snipe	80	68		
Wood Duck	2	2		
Woodpecker			1	
Yellow-billed Cuckoo			4	
Yellow-breasted Chat			1	1
Yellow-rumped Warbler		1		
Yellow-throated Vireo			3	
Yellowlegs Sparrow	2			
Grand Total	1532	700	213	145

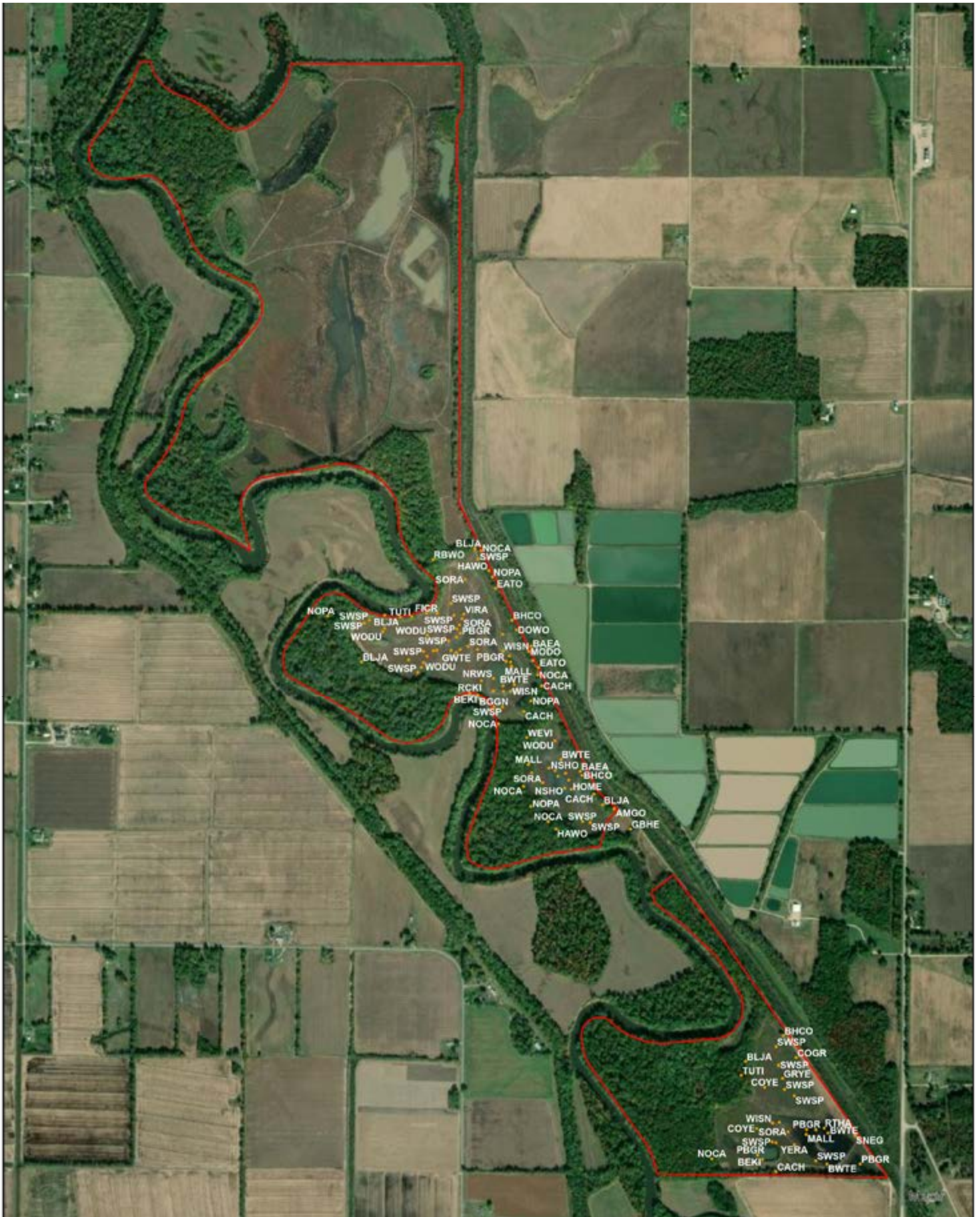




Species	Migration			Breeding Season	
	2018	2020	2021	2018	2021
Acadian Flycatcher				1	
American Crow	4	1	2	3	
American Goldfinch	1	3	1	1	
American Robin			2		
American Wigeon	18				
Bald Eagle	4				
Baltimore Oriole				1	
Barn Swallow	1				
Barred Owl			1	2	
Bell's Vireo					2
Belted Kingfisher				1	
Blue Jay	4		3	1	1
Blue-gray Gnatcatcher		9	2	1	2
Blue-winged Teal	61		20		
Brown Thrasher	2				1
Brown-headed Cowbird	2	9	14	1	4
Canada Goose	2	2	3		
Carolina Chickadee	1	1		1	1
Carolina Wren	5	2		8	
Cedar Waxwing				5	
Chickadee Sp	1				
Cliff Swallow				6	
Common Grackle	1			4	1
Common Yellowthroat				2	2
Dickcissel				8	12
Double-crested Cormorant	1				
Downy Woodpecker		1			
Eastern Bluebird	1				
Eastern Kingbird				4	
Eastern Towhee	1	6	3		
Eastern Tufted Titmouse	4		1	4	1
Eastern Wood-Pewee				1	1
Field Sparrow		13	11		4
Fish Crow	4			2	
Gadwall	5				
Great Crested Flycatcher					1
Great Egret	8				
Greater Yellowlegs	18	2	3		
Green-winged Teal	74				
Hairy Woodpecker			1	1	
Hooded Merganser	2				
House Wren		1			
Indigo Bunting				19	11

Species	Migration			Breeding Season	
	2018	2020	2021	2018	2021
Killdeer	6	3	2	2	
Lesser Yellowlegs	1				
Lincoln's Sparrow		1			
Mallard	10		2	1	
Marsh Wren		2			
Mourning Dove		4	1		2
Northern Cardinal	2	12	3	8	3
Northern Flicker	1	1		2	
Northern Harrier			1		
Northern Parula				1	
Northern Rough-winged Swallow	2				
Northern Shoveler	80		2		
Orange-crowned Warbler		1			
Pied-billed Grebe		1			
Pileated Woodpecker		1	1	2	
Prothonotary Warbler				2	
Purple Martin	1				
Red-bellied Woodpecker	2	1		4	1
Red-eyed Vireo				2	
Red-tailed Hawk	2				
Ruby-crowned Kinglet		3			
Savannah Sparrow	9	2			
Solitary Sandpiper	1		1		
Song Sparrow	1				
Swamp Sparrow		62	4		
Tree Swallow		1			
Warbler Sp				1	
Warbling Vireo		1			
White-throated Sparrow		2	1		
Wild Turkey				1	
Wilson's Snipe		2	7		
Wood Duck	2			2	
Woodpecker Sp				1	
Yellow-bellied Sapsucker	3				
Yellow-billed Cuckoo				2	4
Yellow-breasted Chat					1
Yellow-rumped Warbler	1				
Grand Total	349	150	92	108	55





6664240800N20

2021 Survey Dates

Migration: April 2nd

Breeding Season: May 14th

Acreage: 362

Species	Migration		Breeding Season
	2020	2021	2021
Alder Flycatcher			3
American Bittern	5	12	
American Crow	4		2
Baltimore Oriole			2
Barred Owl		1	
Bell's Vireo			26
Black-capped/Carolina Chickadee	3		
Blackpoll Warbler			1
Blue-gray Gnatcatcher	1		1
Blue-winged Teal	4		
Brown Thrasher	1		
Brown-headed Cowbird	3	1	1
Canada Goose	1		
Carolina Chickadee	2		1
Carolina Wren	2		
Cedar Waxwing			12
Chimney Swift			2
Common Grackle	10		
Common Yellowthroat	1	1	16
Cooper's Hawk	1		
Dickcissel			9
Downy Woodpecker			2
Duck Sp	1		
Eastern Phoebe	1		
Eastern Towhee	1		
Eastern Tufted Titmouse	1	1	
Field Sparrow	5	1	3
Fish Crow	1		
Great Blue Heron	1		
Great Egret	1		12
Green Heron			2
Hairy Woodpecker		1	1
Hooded Merganser			1
Indigo Bunting			22
Lesser Yellowlegs	3		
Lincoln's Sparrow			2
Louisiana Waterthrush			1
Mallard	4	4	

Species	Migration		Breeding Season
	2020	2021	2021
Marsh Wren			1
Mourning Dove	3		1
Northern Bobwhite	8		5
Northern Cardinal	11	5	3
Northern Flicker	2	1	
Orchard Oriole			1
Pied-billed Grebe	3	1	
Pileated Woodpecker	2		2
Purple Martin			1
Red-bellied Woodpecker	1		
Red-shouldered Hawk	1		
Red-tailed Hawk	1		
Ruby-crowned Kinglet	1		
Ruby-throated Hummingbird			1
Sedge Wren	7		
Sparrow Sp	1		
Summer Tanager			1
Swamp Sparrow	36	2	
Tennessee Warbler			1
Virginia Rail	1		
Warbling Vireo			1
Western Palm Warbler			3
White-eyed Vireo			1
White-throated Sparrow	3	1	
Wood Duck	11	6	5
Yellow Warbler			4
Yellow-billed Cuckoo			1
Yellow-breasted Chat			5
Yellow-crowned Night-Heron			4
Grand Total	149	38	163





66642404009BL

2021 Survey Dates
 Migration: April 7th
 Breeding Season: May 24th
 Acreage: 208

	Migration				Breeding Season		
Species	2015	2016	2020	2021	2015	2016	2021
Acadian Flycatcher					1		
American Bittern		1	2	1			
American Coot	60	7	16	36			
American Crow		2	4	40	2	2	3
American Goldfinch			17	44	5	1	
American Robin				1			
American/Fish Crow			3				
Bald Eagle			1	1			
Barn Swallow		3				2	
Barred Owl			1	1	1		
Bell's Vireo					1	2	1
Belted Kingfisher		1	2	5	1	2	
Blue Jay		3	2	8	1		
Blue-gray Gnatcatcher			7	6	1		3
Blue-winged Teal	249	71	36	102			
Brown-headed Cowbird			14	1			4
Canada Goose		7	8	21	15	11	
Carolina Chickadee			6	5			1
Carolina Wren			2	3			
Chimney Swift					1		
Chipping Sparrow	1			2			
Common Grackle		122	2	6	2	38	12
Common Merganser			1				
Common Yellowthroat	1		2	5	15	13	20
Cooper's Hawk		1					
Crow Sp		1				1	
Dickcissel							1
Double-crested Cormorant			9				
Downy Woodpecker			3	3			
Duck Sp	1				1		
Eastern Bluebird				1			
Eastern Meadowlark				1			
Eastern Phoebe			3	3			
Eastern Towhee			2	3	1	1	3
Eastern Tufted Titmouse			5	2		1	
Field Sparrow	3	2	1	2		3	
Fish Crow	1	1	4	9			
Gadwall				5			
Golden-crowned Kinglet			2				
Gray Catbird						1	4
Great Blue Heron	2	4	7	5	4	4	2
Great Crested Flycatcher					1		1

66642404009BL

Species	Migration				Breeding Season		
	2015	2016	2020	2021	2015	2016	2021
Great Egret	7	2	4		14	4	
Greater Yellowlegs	1	96	6				
Green Heron					3	1	7
Green-winged Teal	2		2		2		
Hooded Merganser				2			2
House Wren				2			
Indigo Bunting					9	5	15
Killdeer		2	1			1	
Lesser Yellowlegs				10			
Little Blue Heron							1
Louisiana Waterthrush		1		1			
Mallard	4	2	1	10	1		1
Marsh Wren	2			1		1	
Mourning Dove		1	1	2			2
Northern Bobwhite					1		
Northern Cardinal		1	15	19	2	2	5
Northern Flicker			1				
Northern Harrier			1	2			
Northern Parula		3	2	11	1		1
Northern Rough-winged Swallow			1				
Northern Shoveler	184	252	51	55			
Pectoral Sandpiper		30					
Pied-billed Grebe		2	5	2			
Pileated Woodpecker		1	1	1			1
Prothonotary Warbler				3			
Red-bellied Woodpecker		1	3	2			
Red-eyed Vireo					1		2
Red-shouldered Hawk			1	4	1	1	
Ruby-crowned Kinglet			3				
Ruby-throated Hummingbird							1
Rusty Blackbird				2			
Sandpiper Sp		1					
Savannah Sparrow				1			
Solitary Sandpiper				3			
Song Sparrow			1	3			
Sora	1						
Sparrow Sp		2		1			
Swallow Sp	5	2					
Swamp Sparrow		9	6	18			
Tree Swallow		5	5	27		1	
Tufted Titmouse					1		
Turkey Vulture		1		3			

66642404009BL

Species	Migration				Breeding Season		
	2015	2016	2020	2021	2015	2016	2021
White-eyed Vireo				1	3		2
White-throated Sparrow			4				
Wild Turkey				2			
Willow Flycatcher						1	1
Wilson's Snipe		92		83			
Wood Duck	2	3	10		3	1	
Yellow-billed Cuckoo						1	2
Yellow-breasted Chat					3	3	3
Yellow-crowned Night-Heron						3	
Yellow-rumped Warbler			6	11			
Grand Total	526	735	293	604	98	107	101



Photo: Tree Swallow by Amy Watts



Species	Migration			Breeding Season	
	2016	2020	2021	2016	2021
Acadian Flycatcher					1
Alder Flycatcher				1	
American Bittern	8				
American Crow		1	3		2
American Goldfinch		1			1
Barn Swallow	1			1	
Barred Owl			1		
Bell's Vireo				3	
Blue Jay		2	1	1	1
Blue-gray Gnatcatcher		4		2	1
Blue-winged Teal	4	6			
Brown-headed Cowbird		4	3		1
Carolina Chickadee		1			
Carolina Wren	1	1			
Chimney Swift				4	
Common Grackle				2	
Common Yellowthroat				12	10
Downy Woodpecker			1		1
Eastern Phoebe	2	1			
Eastern Towhee		2		1	
Eastern Tufted Titmouse		5	1		4
Fish Crow			1		1
Gray Catbird				1	
Great Blue Heron	3		1	5	1
Greater Yellowlegs	3				
Green Heron					1
Hairy Woodpecker			1		
Hooded Merganser	10				
Indigo Bunting				5	4
Killdeer				2	
Least Flycatcher				1	
Louisiana Waterthrush	1				
Magnolia Warbler				1	
Mallard		2			
Mourning Dove		1	1		
Northern Cardinal		7	6	1	2
Northern Parula	1			1	1
Orchard Oriole				2	
Prothonotary Warbler		1			

Species	Migration			Breeding Season	
	2016	2020	2021	2016	2021
Purple Martin				1	
Red-bellied Woodpecker		1	1		
Red-eyed Vireo					4
Red-shouldered Hawk		1			1
Rose-breasted Grosbeak					1
Solitary Sandpiper	1				
Sora	1				
Swallow Sp				6	
Swamp Sparrow	4	4	5		
Turkey Vulture		2			
White-eyed Vireo	1	1		2	
White-throated Sparrow		7			
Willow Flycatcher				3	
Wilson's Snipe	2				
Wood Duck	2	1	5		
Yellow-billed Cuckoo				1	3
Yellow-breasted Chat				2	1
Grand Total	45	56	31	61	42



Photo: Common Yellowthroat by MRBO staff

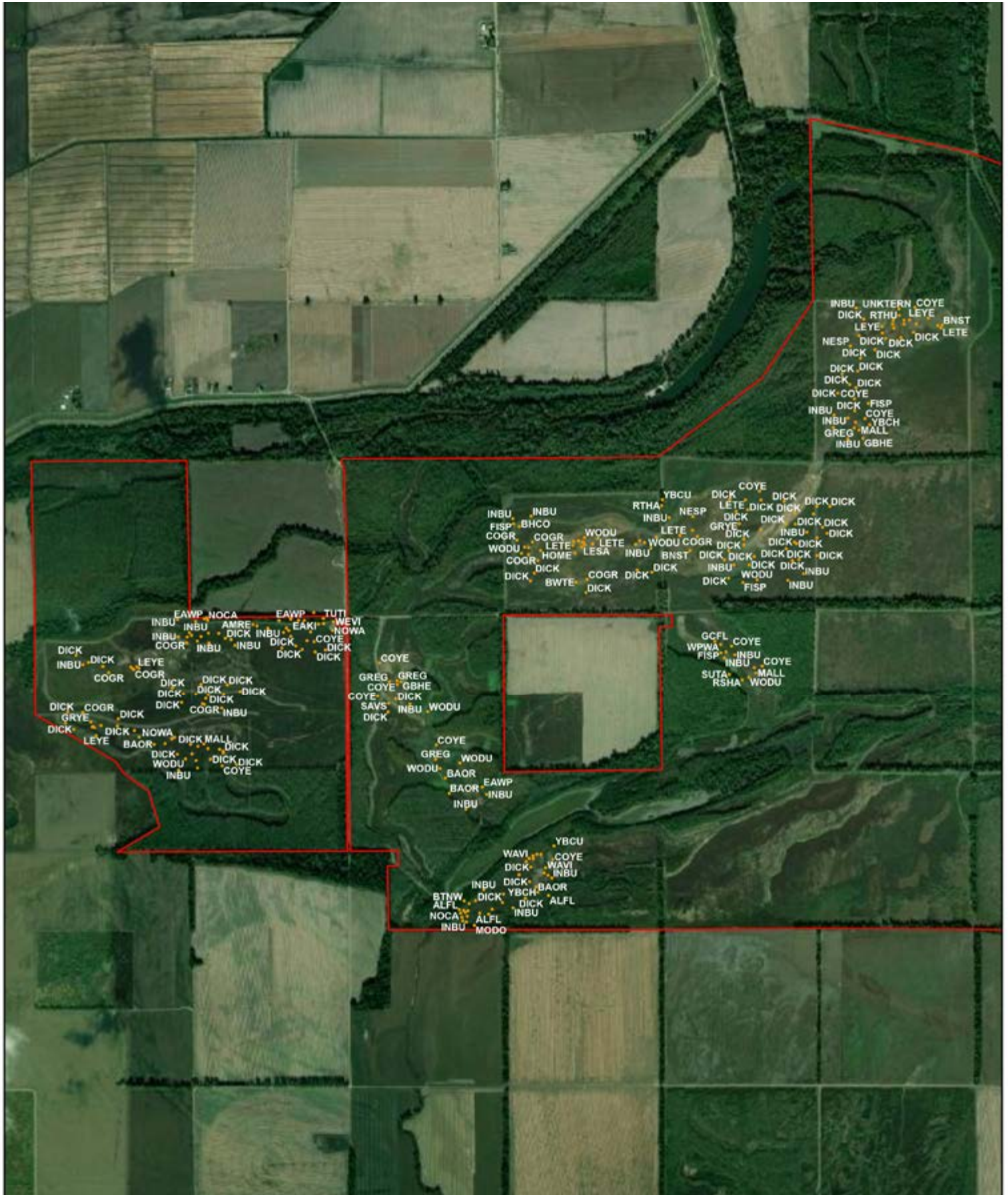




Species	Breeding Season	
	2018	2021
Alder Flycatcher		4
American Crow	19	
American Golden-Plover	9	
American Redstart		1
Bald Eagle	5	
Baltimore Oriole	24	5
Barn Swallow	4	
Barred Owl	2	
Black-bellied Plover		1
Black-necked Stilt	55	11
Blackpoll Warbler	6	1
Blue Grosbeak	1	
Blue Jay	1	
Blue-gray Gnatcatcher	1	1
Blue-winged Teal	27	3
Bobolink	31	
Brown-headed Cowbird	10	3
Canada Goose	1	
Canada Warbler	1	
Carolina Chickadee	3	
Carolina Wren	20	1
Chestnut-sided Warbler		1
Common Grackle	37	26
Common Nighthawk	1	
Common Yellowthroat	31	17
Dickcissel	216	104
Double-crested Cormorant	13	
Downy Woodpecker	2	
Dunlin	20	8
Eastern Kingbird	5	1
Eastern Phoebe	1	
Eastern Towhee	11	
Eastern Tufted Titmouse	12	1
Eastern Wood-Pewee	5	4
Field Sparrow	32	4
Fish Crow	4	
Gadwall	11	
Gray Catbird	3	1
Great Blue Heron	13	2
Great Crested Flycatcher	4	1
Great Egret	110	32
Great Horned Owl	2	

Species	Breeding Season	
	2018	2021
Greater Yellowlegs	36	7
Green Heron	7	
Green-winged Teal	1	
Hairy Woodpecker		1
Hooded Merganser	7	1
Indigo Bunting	73	45
Killdeer	16	
Least Bittern	1	
Least Flycatcher	1	1
Least Sandpiper	103	12
Least Tern	2	12
Lesser Yellowlegs	113	10
Lincoln's Sparrow	2	
Long-billed Dowitcher	12	
Magnolia Warbler	2	
Mallard	19	14
Marsh Wren	1	
Mississippi Kite	3	
Mourning Dove	9	1
Northern Cardinal	20	2
Northern Flicker	5	
Northern Parula	3	
Northern Shoveler	3	
Northern Waterthrush	5	3
Orchard Oriole	5	1
Ovenbird	1	
Pectoral Sandpiper	517	
Peregrine Falcon	2	
Pied-billed Grebe	1	
Pileated Woodpecker	5	
Prothonotary Warbler	9	
Purple Martin	3	
Red-bellied Woodpecker	9	
Red-eyed Vireo	3	
Red-headed Woodpecker	1	
Red-shouldered Hawk	3	1
Red-tailed Hawk	1	1
Rose-breasted Grosbeak		1
Ruby-throated Hummingbird		3
Sandpiper Sp	114	
Savannah Sparrow	3	2
Scarlet Tanager	1	

Species	Breeding Season	
	2018	2021
Sedge Wren	1	
Semipalmated Plover	14	
Semipalmated Sandpiper	30	
Short-billed Dowitcher	2	
Snowy Egret	4	
Solitary Sandpiper	13	3
Song Sparrow	3	
Sora	1	
Sparrow Sp	1	1
Spotted Sandpiper	12	4
Stilt Sandpiper	1	
Summer Tanager	1	1
Swainson's Thrush	1	
Swamp Sparrow		1
Tennessee Warbler	5	
Tern Sp		16
Turkey Vulture	1	
Veery	1	
Warbler Sp		1
Warbling Vireo	6	5
Western Palm Warbler		1
White-crowned Sparrow	2	
White-eyed Vireo	1	1
White-rumped Sandpiper	5	
Wild Turkey	8	
Willet	1	
Wood Duck	10	30
Wood Thrush	1	
Woodpecker Sp	1	
Wren Sp	1	
Yellow Warbler	1	4
Yellow-billed Cuckoo	9	2
Yellow-breasted Chat	5	2
Yellow-throated Vireo	1	
Grand Total	2018	423



Species	Migration			Breeding Season		
	2016	2018	2021	2016	2018	2021
American Crow		2	1			
American Goldfinch	1					
Bald Eagle			2		1	
Barred Owl				1		
Blue Jay	2	1	4		1	
Blue-gray Gnatcatcher						1
Brown-headed Cowbird		1	3		1	
Canada Goose		8				2
Carolina Chickadee			2			
Carolina Wren		2			3	
Common Yellowthroat						6
Crow Sp			1			
Dickcissel				5		2
Downy Woodpecker		2	1		1	
Eastern Bluebird	2					
Eastern Towhee		1				
Eastern Tufted Titmouse	2		2		4	1
Eastern Wood-Pewee				2	1	1
Field Sparrow	1		6	1		1
Great Blue Heron			1			
Great Crested Flycatcher				2	2	2
Great Horned Owl			3			
Greater Yellowlegs		6	6			
Green Heron			1			1
Hooded Merganser			2			
Indigo Bunting				4	5	5
Kentucky Warbler				1		
Killdeer			1			
Lesser Yellowlegs		4				
Marsh Wren						2
Mourning Dove		1	4	1		2
Northern Bobwhite						1
Northern Cardinal	2	3	10		1	
Northern Flicker		6				
Northern Shoveler			1			
Pied-billed Grebe			1			

Species	Migration			Breeding Season		
	2016	2018	2021	2016	2018	2021
Pileated Woodpecker		1	1			
Red-bellied Woodpecker	1	3	1	1	2	
Red-eyed Vireo				1		
Red-tailed Hawk	1	3		2	1	1
Sandpiper Sp			1			
Semipalmated Sandpiper						1
Swamp Sparrow			22			
Turkey Vulture					2	
Warbling Vireo						2
White-throated Sparrow			1			
Wild Turkey			8			1
Wood Duck			1			
Yellow-bellied Sapsucker		1				
Yellow-billed Cuckoo				2	2	
Grand Total	12	45	87	23	27	32





Species	Migration				Breeding Season		
	2015	2016	2020	2021	2015	2016	2021
American Bittern	6			2			
American Coot	40	36	4	1			
American Crow			2				
American Goldfinch						1	
American White Pelican				15			
Bald Eagle						2	
Barn Swallow	1			1		6	1
Bell's Vireo					2	3	7
Belted Kingfisher				1			
Black-necked Stilt	2				4		
Blue Jay			2			1	
Blue-gray Gnatcatcher	1						
Blue-winged Teal	13		1	13			
Bobolink						6	
Brown Thrasher			1				1
Brown-headed Cowbird			19	3			
Canada Goose				2		2	
Carolina Chickadee	1		1				
Carolina Wren		2	1			1	
Cedar Waxwing						21	
Cliff Swallow						24	
Common Grackle				1		2	
Common Yellowthroat					2	5	8
Crow Sp				2			
Dickcissel					52	47	47
Duck Sp	2				2		1
Eastern Kingbird							2
Eastern Meadowlark	15	15	9	1	12	12	1
Field Sparrow		5	5	5			1
Fish Crow	7	4		2			
Flycatcher Sp							1
Great Blue Heron			1		1		
Greater Yellowlegs	2	7					
Indigo Bunting					2	1	15
Killdeer	2	3	3	1	2		
King Rail						1	
Least Sandpiper					3		
Lesser Yellowlegs	4	2					
Lincoln's Sparrow	1						
Mallard	6			3	4	2	
Marsh Wren		6	2				1
Mourning Dove	2		4	1	8	4	
Northern Bobwhite	2	2	1		2	3	3

Species	Migration				Breeding Season		
	2015	2016	2020	2021	2015	2016	2021
Northern Cardinal	3	1	7	6	3		2
Northern Harrier	1		1				
Northern Shoveler				5			
Pectoral Sandpiper		2					
Pied-billed Grebe	4		6	10			
Red-bellied Woodpecker			1				
Rock Pigeon						2	
Ruby-crowned Kinglet			1				
Sandpiper Sp					1		
Savannah Sparrow		1					
Sedge Wren	2		6				
Solitary Sandpiper			1				
Song Sparrow		8		3			
Sora	5	2	2	1		1	
Sparrow Sp	9					1	
Spotted Sandpiper					1		
Swallow Sp						4	
Swamp Sparrow	25	41	90	70			
Tree Swallow				2		3	
Virginia Rail			1				
White-eyed Vireo							1
White-throated Sparrow			1				
Wilson's Snipe	4	3		3			
Wilson's Warbler						1	
Wood Duck						7	2
Wood Thrush							1
Yellow-billed Cuckoo							1
Yellow-breasted Chat						1	5
Grand Total	160	140	173	154	101	164	101

Photo: **Dickcissels** by Andy Reago & Chrissy McClaren





Species	Migration			Breeding Season	
	2015	2020	2021	2015	2021
American Bittern	13	13	1		
American Coot	82	100	18		
American Crow		1			
Bald Eagle		1			
Baltimore Oriole					9
Barn Swallow	1				
Bell's Vireo				1	1
Belted Kingfisher			1		
Black-necked Stilt	3			5	
Blue Grosbeak					1
Blue Jay		1			2
Blue-gray Gnatcatcher		5			1
Blue-winged Teal	140	22	8	4	
Brown-headed Cowbird		2	5		1
Carolina Chickadee		1			1
Carolina Wren			1		
Common Grackle				6	2
Common Yellowthroat		1		7	7
Dickcissel				37	22
Duck Sp			1	1	
Eastern Meadowlark				7	
Eastern Towhee		3			1
Field Sparrow		11	14	1	6
Great Blue Heron			1		
Greater Yellowlegs	1	1			
Green Heron				1	
Green-winged Teal	5	37			
Indigo Bunting				5	1
Killdeer				2	
King Rail	1	1			
Lesser Yellowlegs		1			
Mallard		10		3	
Marsh Wren		3			
Mourning Dove		7	2	3	4
Northern Bobwhite				6	
Northern Cardinal		1	3		
Northern Flicker			1		
Northern Harrier		3	2		
Northern Shoveler	69	23			
Northern Waterthrush					2
Orchard Oriole					2

Species	Migration			Breeding Season	
	2015	2020	2021	2015	2021
Pied-billed Grebe		4	20		
Pileated Woodpecker					1
Red-shouldered Hawk	1				
Sandpiper Sp			60		
Savannah Sparrow	1		1		
Sedge Wren		2			
Song Sparrow		1			
Sora	20	8	5	2	
Sparrow Sp			1		
Summer Tanager				1	
Swamp Sparrow	7	20	34		
Virginia Rail		5			
Willow Flycatcher					2
Wilson's Snipe	3				
Wood Duck		1		1	
Yellow Warbler					2
Yellow-billed Cuckoo				1	
Yellow-breasted Chat				3	
Grand Total	347	289	179	97	68



Photo: **Sandpiper** by Karen Davis

66642496009JY

2021 Survey Dates
Migration: April 4th
Breeding Season: May 18th
Acres: 277

	Migration	Breeding Season
Species	2021	2021
American Crow	4	
American Goldfinch		1
Bald Eagle	1	
Baltimore Oriole		1
Barred Owl	2	
Bell's Vireo		2
Blue Jay	2	1
Blue-gray Gnatcatcher		5
Blue-winged Teal	74	
Brown Thrasher	1	
Brown-headed Cowbird	12	27
Carolina Chickadee	5	1
Carolina Wren		1
Cedar Waxwing		20
Common Grackle	2	
Common Yellowthroat		12
Dickcissel		1
Downy Woodpecker	3	5
Duck Sp	4	
Eastern Tufted Titmouse	2	4
Eastern Wood-Pewee		3
European Starling		1
Field Sparrow	9	5
Great Crested Flycatcher		3
Green Heron		1
Hairy Woodpecker	2	
Indigo Bunting		30
Mallard	5	
Mourning Dove	5	2
Northern Bobwhite		
Northern Cardinal	15	16
Northern Parula		1
Northern Shoveler	3	
Orchard Oriole		2
Pileated Woodpecker	2	1
Prothonotary Warbler		4
Red-bellied Woodpecker	2	
Red-eyed Vireo		1
Ruby-throated Hummingbird		1
Solitary Sandpiper	2	
Summer Tanager		1

	Migration	Breeding Season
Species	2021	2021
Swamp Sparrow	11	
White-eyed Vireo	1	1
White-throated Sparrow	3	
Willow Flycatcher		2
Wood Duck	2	
Yellow-billed Cuckoo		3
Yellow-breasted Chat		5
Grand Total	174	164

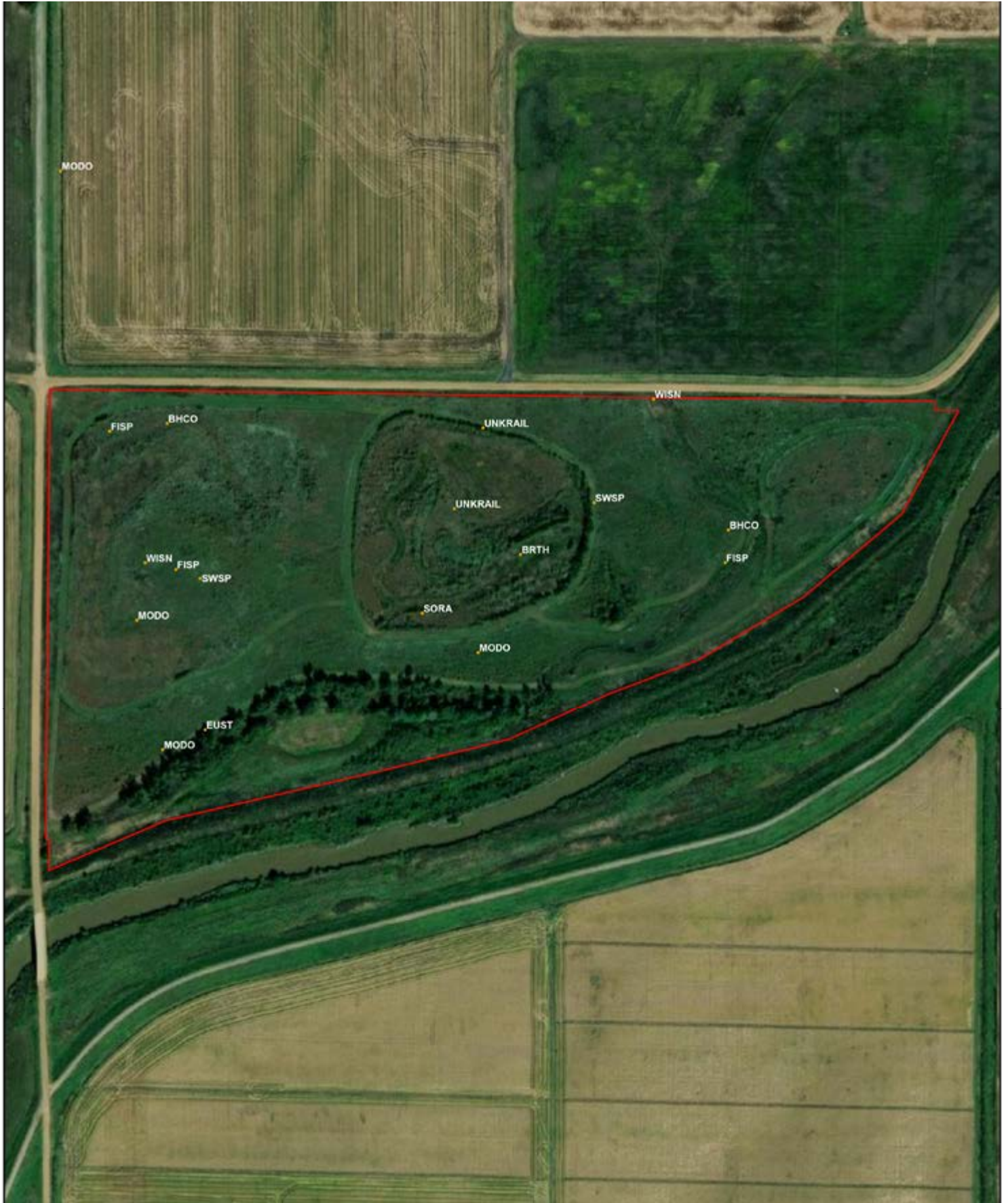


Photo: **Indigo Bunting** by Chris Valentine



Species	Migration		Breeding Season	
	2016	2021	2016	2021
American Goldfinch			3	3
Barn Swallow			3	1
Bell's Vireo				5
Black-necked Stilt	11		2	
Blue Jay			1	
Blue-winged Teal	5			1
Bobolink				2
Brown Thrasher		1		
Brown-headed Cowbird		2	1	
Carolina Wren	1			
Cedar Waxwing			25	
Common Grackle			2	6
Common Yellowthroat			3	1
Dickcissel			23	23
Eastern Meadowlark	2			
Eastern Towhee			1	
European Starling		3	1	
Field Sparrow	6	3	2	3
Flycatcher Sp			1	
Gray Catbird			1	
Greater Yellowlegs	6			
Indigo Bunting			3	2
Killdeer	2		3	
Mourning Dove		4	4	3
Northern Bobwhite			2	
Northern Cardinal	1		1	2
Orchard Oriole			3	
Prothonotary Warbler	1			
Rail Sp		2		
Red-bellied Woodpecker	1			
Savannah Sparrow				1
Solitary Sandpiper				1
Song Sparrow	1			
Sora	2	1		
Swamp Sparrow	1	2		
Warbling Vireo				2
White-eyed Vireo			1	
White-throated Sparrow	1			
Wilson's Snipe	5	3		
Yellow-breasted Chat			1	1
Yellow-throated Vireo	1			
Grand Total	47	21	87	57





Species	Migration						Breeding Season				
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2021
Acadian Flycatcher									3	1	1
Alder Flycatcher							6			2	
American Bittern							1				
American Coot	1		95		43	15					
American Crow	1	3	7	2	2	4	8	10	10		2
American Goldfinch	1	3			4	2	2		1	1	3
American Redstart								2			
American Robin				1							
American Wigeon			10			1					
Bald Eagle						1		1	1	1	
Barn Swallow			1					2	3		
Barred Owl			2	1	1		1		1		
Belted Kingfisher			1	1		1	1				
Black Vulture						2					
Black-crowned Night-Heron			3			1			2		
Blackpoll Warbler								1			
Blue Jay	5	1	1		1	2	1	2	3	1	
Blue-gray Gnatcatcher	1	2	6	1	7	2	1		2	1	2
Blue-winged Teal	15		62	4	4	40	1	12			
Brown Thrasher				2						1	
Brown-headed Cowbird			1	5	16	8		1	4	1	12
Canada Goose	5	2	2	2	3	6	19	6	1		
Carolina Chickadee	1	4	1	3	2	5	2	3	3	1	1
Carolina Wren			2								
Chimney Swift						2	1				3
Common Grackle				9	1	23	17	41	1	1	7
Common Merganser	9										
Common Nighthawk								2		1	
Common Yellowthroat		1					1	1	2	9	9
Dickcissel									1		
Double-crested Cormorant	10										
Downy Woodpecker	1		1	2		4			3	1	2
Duck Sp	2			7		33					
Eastern Kingbird								2			
Eastern Tufted Titmouse		3	1		1	3	1		1		
Eastern Wood-Pewee							2	1	1		
Fish Crow			2	3	1	1					1
Gadwall			861								
Golden-crowned Kinglet		2									
Gray Catbird							2	1	1	1	
Great Blue Heron	20		4		1	2	9	3	2	1	
Great Crested Flycatcher								2	1		1
Great Egret							22	20	1		

Species	Migration						Breeding Season				
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2021
Greater Yellowlegs	15		10	1							
Great-tailed Grackle								2			
Green Heron							1	1		1	
Green-winged Teal			500			8					
Hairy Woodpecker											1
Hooded Merganser			1			3					
Indigo Bunting							2	5	7	4	5
Killdeer								1	2		
Least Bittern									1		
Least Flycatcher							1				
Lesser Yellowlegs			1		1						
Little Blue Heron								23	2		
Louisiana Waterthrush							1	2			
Mallard	6		4		7	1		2	2		
Mourning Dove				3		2			1		
Northern Cardinal		4	2	6	7	4		9	5	4	3
Northern Parula			1						1		
Northern Shoveler			6		3	3		15			
Northern Waterthrush								1			
Orchard Oriole									1		
Pectoral Sandpiper			300			14					
Peregrine Falcon			1								
Pied-billed Grebe			3			2					
Pileated Woodpecker						1					
Prothonotary Warbler					4		3		4	4	8
Purple Martin									2	2	
Red-bellied Woodpecker		1	1	1			2	1			
Red-eyed Vireo							1		3	1	1
Red-shouldered Hawk	1		1	1			2	1	1		
Red-tailed Hawk								1			
Ring-necked Duck			6	2	1						
Ruby-crowned Kinglet		1			1						
Ruby-throated Hummingbird								1			
Rusty Blackbird			270	4							
Solitary Sandpiper		1	2			9					
Song Sparrow				1		1				1	
Summer Tanager							1				
Swamp Sparrow				6	1	5					
Tennessee Warbler								1			
Tree Swallow	10				3	4					
Warbling Vireo									1	1	
Western Palm Warbler		5									
White-eyed Vireo									2	1	
White-throated Sparrow				2							

Species	Migration						Breeding Season				
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2021
Wild Turkey							1				
Willow Flycatcher								1			
Wilson's Snipe			1	1		2					
Wood Duck	2		9	5		5	3	7			3
Wood Thrush		2					2	2	3	1	
Woodpecker Sp				1							
Yellow-billed Cuckoo							5	2	4	1	2
Yellow-crowned Night-Heron								1			
Yellow-rumped Warbler			19	6	4	2					
Yellow-throated Warbler	1		4		1	1					
Grand Total	107	35	2205	83	120	225	123	192	90	45	67



Photo: **Prothonotary Warbler** by Clay Guthrie



6664240000B3V - MIGRATION



Species	Migration						Breeding Season				
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2021
American Bittern				2						1	
American Coot			12								
American Golden-Plover						2					
American Goldfinch					1			2			
American Kestrel							1				
American Robin	1		1	3	1			1	1	1	
Bald Eagle		2									
Baltimore Oriole								3	4		
Barn Swallow		4	3		4	2	10	10	5	4	
Barred Owl				1							
Bell's Vireo											1
Belted Kingfisher				1							
Black-necked Stilt							2				
Blue Jay		3	1		2	2			2	2	
Blue-winged Teal	8	111	72	10			1		1		
Bobolink				1					1		
Brown Thrasher	1		1	1	1						
Brown-headed Cowbird			2	2	2					1	
Canada Goose	6		3								
Carolina Chickadee					1	1					
Carolina Wren	1		2	1	3		1	1	3		
Cedar Waxwing										20	
Chipping Sparrow		6	1								
Cliff Swallow					1		5	10	15	12	
Common Grackle		10	3	9	16	1	4	6	2		
Common Nighthawk							1		1		
Common Yellowthroat									6	3	5
Dickcissel							14	16	18	9	7
Double-crested Cormorant				25	27						
Downy Woodpecker										1	
Eastern Kingbird								1			
Eastern Meadowlark		8					1		1		
Eastern Towhee			1	2	1				1		
Eastern Tufted Titmouse		1	2						3	1	
Eurasian Collared-Dove											2
European Starling		5			1	1	2	1			
Field Sparrow	3	6	5	5	6	1	1		2	2	3
Gadwall			8								
Golden-crowned Kinglet					1						
Grasshopper Sparrow							3	3	5		
Great Blue Heron					1		5				
Great Crested Flycatcher									1	1	
Great Egret							14	4			
Greater Yellowlegs	16	14	2						1		

Species	Migration						Breeding Season				
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2021
Green Heron							2		3	1	9
Green-winged Teal		3	2								
Horned Lark		1			1				2		
House Wren				1				1			
Indigo Bunting							2		5	5	5
Killdeer	2	2	1		1	1	2		4	1	
Least Bittern									3	1	
Lesser Yellowlegs	16	12	1								
Lincoln's Sparrow	2	1									
Little Blue Heron							4				
Loggerhead Shrike		1									
Mallard		4	2	2	1		5		5	9	
Marsh Wren					2						
Mourning Dove	2	3	3	7	3		4	6	2	1	
Northern Bobwhite		7	1		3		1	3	3	3	4
Northern Cardinal	1	10	2	4	10	4	6	3	5	6	
Northern Flicker			1		1						
Northern Harrier			1								
Northern Mockingbird		1						1			
Northern Parula	2				1						
Northern Rough-winged Swallow	1						3		4		
Northern Shoveler	33	12									
Pectoral Sandpiper	6										
Pied-billed Grebe				3							
Raptor Sp					1						
Red-bellied Woodpecker				1	1						
Red-headed Woodpecker								1			
Red-tailed Hawk				1						1	
Ring-billed Gull				3							
Rock Pigeon			14				5	11		21	
Sandpiper Sp		10	1		45				6		
Savannah Sparrow		22	2	12					1		
Semipalmated Plover	1										
Semipalmated Sandpiper									10		
Snowy Egret							6				
Solitary Sandpiper	2	4									
Song Sparrow	1			2							
Sora	1	1		3	4				4		
Sparrow Sp				9							
Swallow Sp									1		
Swamp Sparrow	2	14	13	31	22	5					
Tree Swallow	5	3	5	5			5				

Species	Migration						Breeding Season				
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2021
Virginia Rail				4	2						
Warbling Vireo											2
White-eyed Vireo											1
White-throated Sparrow					4						
Wild Turkey					1						
Wilson's Snipe	4	15									
Wood Duck		10	3	8	6			6	9	2	
Yellow-rumped Warbler	1										
Yellow-throated Vireo									1		
Yellow-throated Warbler							1				
Grand Total	118	306	171	159	178	20	111	90	141	109	39



Photo: **Green Heron** by Marvin De Jong





Species	Migration					Breeding Season			
	2017	2018	2019	2020	2021	2017	2018	2019	2021
Acadian Flycatcher									1
American Bittern		1			3	2		1	
American Coot		137	1	28	78				
American Crow	8	8	4		7	1	4	1	
American Golden-Plover	1								
American Goldfinch	1			1	27	8			
American Pipit		5							
American Robin			1						
American Wigeon	2								
American/Fish Crow				1					
Bald Eagle		2	1	1	2		1	1	1
Baltimore Oriole							2		
Bank Swallow		10				8			
Barn Swallow	14	10	2	4		27	4	3	3
Barred Owl			3		4	1			
Bell's Vireo								3	1
Belted Kingfisher			1						
Black-necked Stilt	10			2		4			
Blue Grosbeak								1	1
Blue Jay		2	1	1	1		5		
Blue-gray Gnatcatcher		2		2	2	2	2	4	1
Blue-winged Teal	41	320	22	56	243	3		1	8
Brown Thrasher		1	2	2	2	2	2		
Brown-headed Cowbird			43	12	4		5	5	
Bufflehead	1	1		2					
Canada Goose		10	4	3	43	4	13	15	
Carolina Chickadee			3	4	6				1
Carolina Wren		1	2	1	2	1	4		
Cedar Waxwing								5	
Chimney Swift								2	
Chipping Sparrow					2				
Clay-colored Sparrow						1			
Cliff Swallow						16	1		
Common Grackle		3			11	4	4	1	8
Common Yellowthroat				1	1	9	12	27	29
Crow Sp		2							
Dickcissel							119	36	65
Downy Woodpecker		1	1	1	3			1	
Duck Sp		2			3		4	8	
Dunlin	7						4		
Eastern Bluebird	1	2	1				1		
Eastern Kingbird						5	1	2	2
Eastern Meadowlark	1		11	1	2		2		

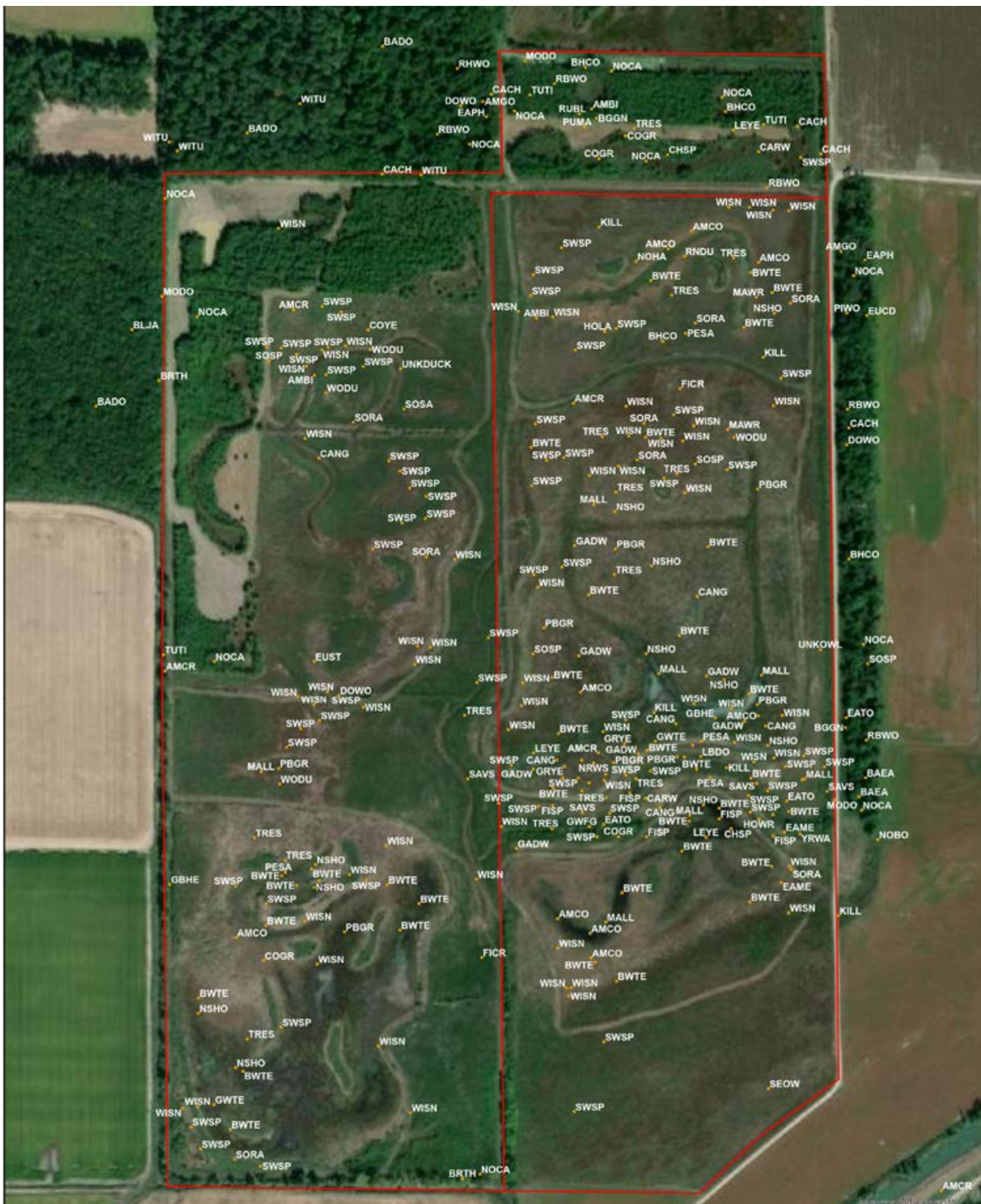
66642412018DW & 6664240900X2K

Species	Migration					Breeding Season			
	2017	2018	2019	2020	2021	2017	2018	2019	2021
Eastern Phoebe		2		1	2				
Eastern Towhee			1		4				
Eastern Tufted Titmouse	1	1			3	1	1		
Eastern Wood-Pewee						4	6	2	
Eurasian Collared-Dove					1				
European Starling		1	30		1				
Field Sparrow	2	1	8		5	4	3	3	
Fish Crow	2		8	4	2	2			
Gadwall		12			13				
Great Blue Heron	5		1	2	3	2	3	2	13
Great Crested Flycatcher							1	1	
Great Egret			6			1	14		11
Great Horned Owl			1						
Greater White-fronted Goose					1				
Greater Yellowlegs	26	24	2	16	5		1		
Green Heron						2	2		2
Green-winged Teal	1	197		6	10				
Henslow's Sparrow								1	
Hermit Thrush		1							
Hooded Merganser				2					
Horned Lark	1				1				
House Wren					1				
Indigo Bunting						4	5	12	7
Killdeer	13			2	5	7	7	3	3
King Rail								1	
Le Conte's Sparrow	1	1							
Least Bittern							1	4	1
Least Flycatcher							1		
Least Sandpiper	45					1			
Lesser Yellowlegs	53	14			15	2	1		
Lincoln's Sparrow	1								
Little Blue Heron						8			
Long-billed Dowitcher	13				1				
Louisiana Waterthrush								1	
Mallard		26	3	6	9	3			2
Marsh Wren					2	2		2	3
Mourning Dove		2	4	1	4	1	3	1	
Northern Bobwhite					1				
Northern Cardinal	2		6	6	13	2	5	6	3
Northern Flicker			1				1		
Northern Harrier		1	3		1				
Northern Parula				1					
Northern Rough-winged Swallow			1		6				
Northern Shoveler	7	35	16	89	55				
Orchard Oriole									2
Ovenbird								3	

66642412018DW & 6664240900X2K

Species	Migration					Breeding Season			
	2017	2018	2019	2020	2021	2017	2018	2019	2021
Owl Sp					1				
Palm Warbler						1			
Pectoral Sandpiper	362	2	22	36	39	38	1		
Pied-billed Grebe		2		4	9	2		5	
Pileated Woodpecker					1				
Prothonotary Warbler								1	
Purple Martin					9		3		
Red-bellied Woodpecker		1		2	5	2	4	2	
Red-breasted Merganser						3			
Red-headed Woodpecker					1		1		
Red-shouldered Hawk				1		1	1		
Red-tailed Hawk		1							
Ring-necked Duck		1			2				
Ruby-crowned Kinglet	1			3					
Rusty Blackbird		2			1				
Sandpiper Sp	8		5				16		
Savannah Sparrow	14	6	7	20	4	1			
Short-eared Owl					1				
Snow Goose			1						
Solitary Sandpiper	32	1			1				
Song Sparrow	1	3	2		4	3			
Sora	5	1	1	4	8	2			
Sparrow Sp		4	4	8	1				
Spotted Sandpiper	6					8			
Summer Tanager						1	1	1	
Swallow Sp			1					4	
Swamp Sparrow	10	54	25	56	65				
Tree Swallow	117	12	57	7	196	12	7		
Virginia Rail				2					
Warbling Vireo							1		2
White-eyed Vireo								2	2
White-throated Sparrow			3						
Wild Turkey			1	7	4				
Willow Flycatcher								1	
Wilson's Snipe	38	49	52	39	70				1
Wood Duck		16	3	4	6	5	5	2	22
Woodpecker Sp							1		
Yellow Warbler						3		1	
Yellow-billed Cuckoo								2	2
Yellow-breasted Chat							1	1	
Yellow-rumped Warbler		1	1	1	1				
Grand Total	854	994	379	453	1039	226	287	181	197





Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
American Coot		5	4		
American Crow	1	1			
American Goldfinch		4			
American Pipit	1				
American White Pelican			65		
Bald Eagle			1		1
Barn Swallow				4	
Bell's Vireo					2
Belted Kingfisher	2			1	
Blue Jay	2	4			
Blue-gray Gnatcatcher	2	1			
Blue-winged Teal	14	56	36		
Brown Thrasher	2	1			
Brown-headed Cowbird	4	4	2	1	
Canada Goose	2	6	25	7	
Carolina Chickadee	2	1			
Carolina Wren		2			
Cedar Waxwing					40
Common Grackle				1	1
Common Yellowthroat				3	7
Crow Sp					1
Dickcissel				7	3
Downy Woodpecker	1	1			
Eastern Bluebird	2	2			
Eastern Kingbird				3	2
Eastern Meadowlark	1			1	
Eastern Phoebe		1			
Eastern Towhee	3	1	1		
Eastern Tufted Titmouse	1				
European Starling	6	2			
Field Sparrow	4	7	6	2	1
Fish Crow			2		
Gadwall	4		18		
Great Blue Heron	1	3	1		1
Greater Yellowlegs	5	3	5		
Green Heron					1
Green-winged Teal			6		
Hooded Merganser	10				
Indigo Bunting				4	3
Killdeer	3	2		2	1
Lesser Yellowlegs		2	1		
Mallard	2		4	5	5
Mourning Dove	5	6			
Northern Bobwhite		1			2

Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Northern Cardinal	8	8	1	2	1
Northern Harrier	1				
Northern Mockingbird				1	
Northern Pintail				1	
Northern Shoveler	16	1	17		
Orchard Oriole					1
Pectoral Sandpiper		6			
Pied-billed Grebe	2	1	11		
Purple Martin		1			4
Red-bellied Woodpecker	1	1	1	1	1
Red-shouldered Hawk			1		
Red-tailed Hawk	1				
Red-winged Blackbird				6	
Ring-necked Duck			1		
Ruby-throated Hummingbird					1
Sandpiper Sp	30			1	
Snow Goose	1				
Solitary Sandpiper		4			
Song Sparrow	3				
Sora		1	1		
Sparrow Sp	1				
Swamp Sparrow	2	20	6		
Tree Swallow		6	1		
White-eyed Vireo		1			
White-throated Sparrow	1	4			
Wilson's Snipe	4	11	9		
Wood Duck	1	2	4		11
Yellow-breasted Chat				2	3
Yellow-rumped Warbler	1				
Grand Total	153	183	230	55	93



Photo: Northern Shoveler by Amy Petersen





Species	Migration				Breeding Season		
	2018	2019	2020	2021	2018	2019	2021
American Bittern			3				
American Coot		100	36	5			
American Crow		1					
American Golden-Plover				115			
American Goldfinch			1		1		1
American Robin		3					
American Woodcock				3			
Bald Eagle		2		2			2
Barn Swallow					2		
Bell's Vireo					2	2	1
Belted Kingfisher				1			
Blackbird Sp		11					
Black-necked Stilt	15					1	
Blue Grosbeak						2	
Blue Jay		3	1	2			
Blue-gray Gnatcatcher						1	
Blue-winged Teal	67	22	19	84	2		
Bonaparte's Gull	3						
Brown Thrasher	1	3	1	2			
Brown-headed Cowbird	1	2	8	8		1	1
Canada Goose			2	12			
Carolina Chickadee			1	4			
Carolina Wren	1	2	2		2		1
Chipping Sparrow	1					1	
Common Grackle	1	14	4	132	15	4	12
Common Yellowthroat					9	2	7
Dickcissel					84	78	65
Dowitcher Sp	1						
Downy Woodpecker		1		1			
Duck Sp		15					
Eastern Kingbird					5	2	4
Eastern Meadowlark	10	24	12	12	7	8	2
Eastern Phoebe	1		1				
Eastern Towhee	1	3	1	14	1	3	1
Eastern Tufted Titmouse				1			
Eurasian Collared-Dove				1			
European Starling			2				
Field Sparrow	8	26	24	41	16	10	6
Flycatcher Sp					1		
Fox Sparrow	1						
Gadwall	38	4	3	1			
Golden-crowned Kinglet		1					
Grasshopper Sparrow					3		
Great Blue Heron		1	1	1	1		1

Species	Migration				Breeding Season		
	2018	2019	2020	2021	2018	2019	2021
Great Crested Flycatcher						1	
Great Egret		4					
Great Horned Owl					1		
Greater Yellowlegs	41	13	5	12			
Green Heron						2	
Green-winged Teal	150	60	2	35			
Hairy Woodpecker		1					
Horned Lark				1			
House Wren	1			1			
Indigo Bunting					5	8	4
Killdeer	12	5		5	7	5	2
King Rail			3	1		1	
Least Bittern						1	
Lesser Yellowlegs	64		2	70	1		
Lincoln's Sparrow					1		
Long-billed Dowitcher		42		6			
Mallard	10	12	7	10	4	4	4
Marsh Wren			1	1			1
Mourning Dove	2	3	3	7	3		
Northern Bobwhite		7	5	18	16	17	9
Northern Cardinal	2	7	6	10	6	4	1
Northern Flicker	2	4	2		1		
Northern Harrier	4	2	3	4			
Northern Mockingbird			1	1	1		1
Northern Shoveler	67	8	40	106			
Orchard Oriole					3	1	1
Pectoral Sandpiper	17	315	10	189			
Peregrine Falcon	1						
Pied-billed Grebe	2	1	8	1			
Pileated Woodpecker		1					
Purple Martin					1		
Rail Sp				1			
Red-bellied Woodpecker	1	2	1	2	6	2	
Red-tailed Hawk		1		1			
Red-winged Blackbird		122					
Ring-billed Gull		1					
Ring-necked Duck	4						
Rusty Blackbird		1					
Sandpiper Sp		232	38		2		
Savannah Sparrow	6			1	1		
Sedge Wren			5				
Semipalmated Plover	1						
Solitary Sandpiper				2			

Species	Migration				Breeding Season		
	2018	2019	2020	2021	2018	2019	2021
Song Sparrow		6		2			
Sora		4	13	1			
Sparrow Sp		1	4				
Spotted Sandpiper	4						
Swamp Sparrow	14	36	100	19			
Tree Swallow		12		1			
Virginia Rail			6				
White-breasted Nuthatch					1		
White-eyed Vireo						2	
White-throated Sparrow				1			
Wilson's Snipe	194	18	9	129			
Yellow Rail				1			
Yellow-billed Cuckoo					1	5	
Yellow-breasted Chat					8	5	4
Yellow-rumped Warbler				3			
Grand Total	749	1159	396	1084	220	173	131



Photo: **Northern Bobwhite** by Mark Ramsey



Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Alder Flycatcher				1	
American Coot	2	4	1		
American Crow	1	1			
American Goldfinch		2	1		
American Robin	1	1			
Bald Eagle		2	2		
Barn Swallow		5			
Bell's Vireo				4	
Belted Kingfisher		2	2	1	
Blue Jay	1	1	7		
Blue-gray Gnatcatcher	1	2	1	5	2
Blue-winged Teal	37	28	22		
Brown Thrasher	2	2	1	2	
Brown-headed Cowbird	4	2	8	1	1
Canada Goose	8				
Carolina Chickadee	3	4	4		1
Carolina Wren	2	5		1	
Cedar Waxwing			35		9
Cliff Swallow					1
Common Grackle		5	41	1	7
Common Yellowthroat			2	3	8
Dickcissel				8	7
Downy Woodpecker	2	1	1		
Eastern Bluebird	2				
Eastern Kingbird				1	1
Eastern Phoebe	1	2			
Eastern Towhee	5	1	2	1	1
Eastern Tufted Titmouse	1	4	2		
Eastern Wood-Pewee				1	
Field Sparrow	19	5		5	
Fish Crow			1		
Fox Sparrow	2				
Great Blue Heron		2	2	1	1
Great Crested Flycatcher				1	3
Great Horned Owl		1			
Greater Yellowlegs	2	2	1		
Green Heron					1
Green-winged Teal			5		
Hairy Woodpecker	1		2		1
Hooded Merganser		13	13		
Indigo Bunting				13	13
Killdeer	1			6	
Least Bittern				1	
Mallard	4	5	5		

66642496009JZ

Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Marsh Wren			1		
Mourning Dove	4	8	1	2	
Northern Cardinal	7	7	6	2	3
Northern Flicker	1				
Northern Harrier	1				
Northern Parula		4	4		3
Northern Rough-winged Swallow		3	2		2
Northern Shoveler	12	4	18		
Orchard Oriole					1
Pied-billed Grebe		2	16	1	
Pileated Woodpecker		2		1	
Red-bellied Woodpecker	2	1	1		1
Red-shouldered Hawk	1	1			
Red-tailed Hawk		1	1		
Ruby-crowned Kinglet		1	1		
Savannah Sparrow		3	1		
Snowy Egret			3		
Song Sparrow	1				
Sora	1	4	7		
Swallow Sp		2			
Swamp Sparrow	13	25	31		
Virginia Rail			1		
Warbling Vireo					1
White-crowned Sparrow	1				
White-eyed Vireo		2	1		
White-throated Sparrow		4			
Wild Turkey		2			
Wilson's Snipe	1	2	9		
Wood Duck	4	10	5		
Wood Thrush				1	
Yellow Rail			1		
Yellow-billed Cuckoo					1
Yellow-breasted Chat				6	2
Yellow-rumped Warbler		1			
Yellow-throated Vireo				1	
Grand Total	151	191	271	71	71





Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Alder Flycatcher				1	
American Bittern	1	2	4	2	
American Coot		1	20		
American Crow	2		1		
American Goldfinch					1
American Robin	1				
Barn Swallow				1	
Bell's Vireo				1	
Black-bellied Whistling-Duck					2
Black-necked Stilt					2
Blue Jay			2	2	
Blue-gray Gnatcatcher		1			
Blue-winged Teal	2	23	61		
Brown Thrasher	1		1		
Brown-headed Cowbird			8	2	
Carolina Wren	2	2		3	
Common Grackle	10		30	2	2
Common Yellowthroat				5	2
Dickcissel				66	49
Downy Woodpecker	1		1		
Eastern Kingbird				2	
Eastern Meadowlark	15	7	9	6	1
Eastern Towhee				1	
Field Sparrow	15	16	31	3	5
Gadwall			1		
Great Blue Heron	2		1		
Great Egret			1		
Greater Yellowlegs		44	1		
Green-winged Teal			69		
Hooded Merganser	4				
Indigo Bunting				5	
Killdeer	5	4	1	2	3
Mallard	7	8	3	2	
Marsh Wren		1	2		1
Mourning Dove	4	4	7	2	
Northern Bobwhite	3	4	14	4	9
Northern Cardinal		3	5		
Northern Flicker			1		
Northern Harrier	4	4			
Northern Mockingbird		1	1		
Northern Shoveler		1	1		
Pectoral Sandpiper	1				
Pied-billed Grebe			2		
Rail Sp			1		

Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Red-bellied Woodpecker		1	1		
Red-tailed Hawk	1	1			
Rusty Blackbird	1				
Sandpiper Sp					1
Savannah Sparrow	11				
Sedge Wren	2	2			
Semipalmated Sandpiper					3
Solitary Sandpiper		2		1	1
Song Sparrow		1	2		
Sora		2	5		
Sparrow Sp	1		1		
Swamp Sparrow	32	37	55		
Tree Swallow		1	1		
White-breasted Nuthatch			1		
Wilson's Snipe	45	54	41		
Wood Duck		2			
Woodpecker Sp			2		
Yellow Warbler					1
Yellow-breasted Chat				1	
Grand Total	173	229	388	114	83



Photo: **Wilson's Snipe** by Paul Moffett



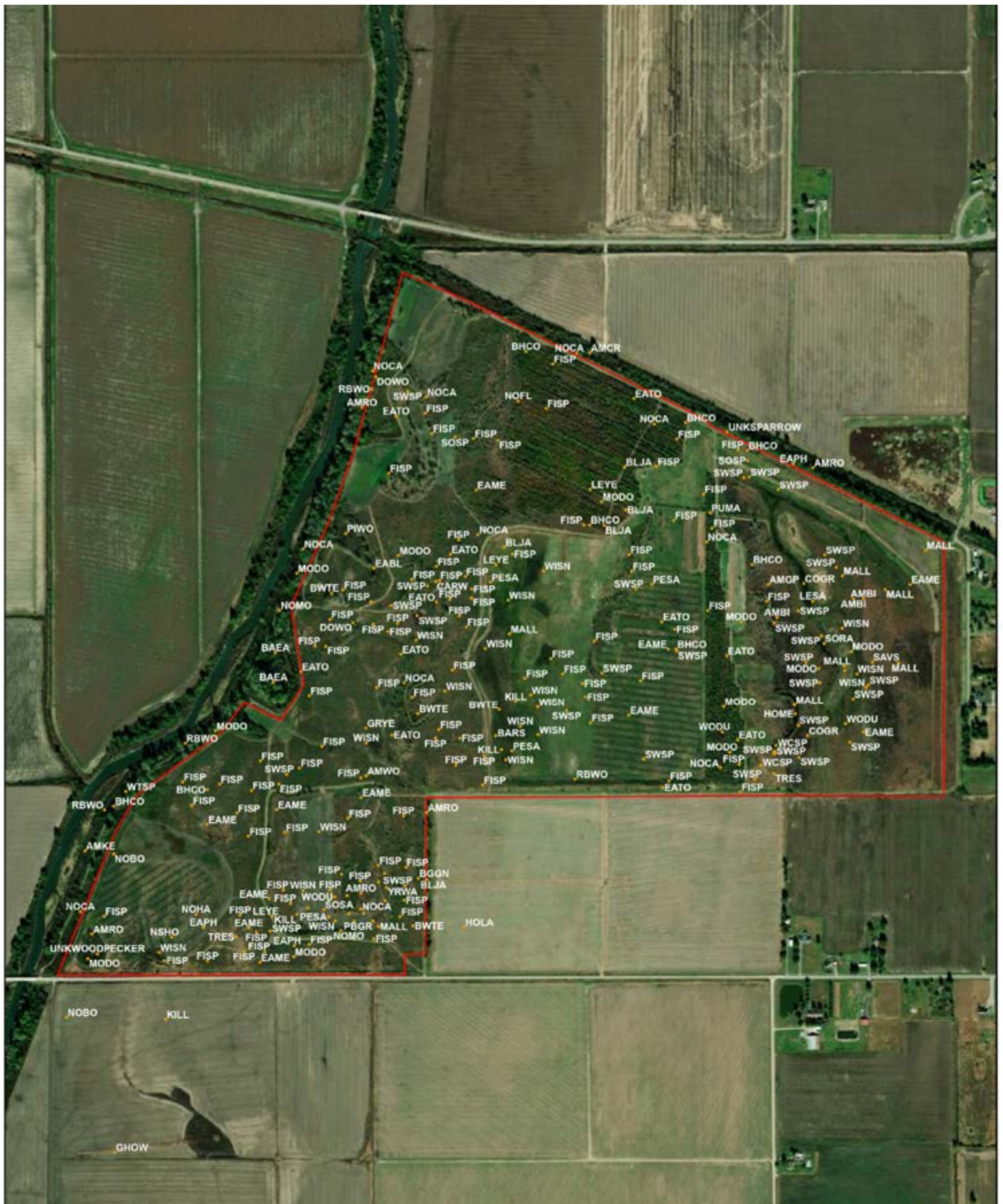


Species	Migration							Breeding Season					
	2015	2016	2017	2018	2019	2020	2021	2015	2016	2017	2018	2019	2021
Alder Flycatcher												1	2
American Bittern		3	1	4	7	7	3				1		
American Coot	9	1		7	1								
American Crow						1	1				2		
American Golden-Plover							5						
American Goldfinch			7			13		2	8	27	6	4	1
American Kestrel							1		1				
American Robin	2	1	3	11	7	7	6	2		5	2		
American Tree Sparrow		3											
American Woodcock				1			1						
Bald Eagle		1		2	1	1	3			1	2	1	
Baltimore Oriole										1	3		2
Barn Swallow	1				4	1	1			2	1	2	1
Barred Owl										1	1	1	
Bell's Vireo								7	6	7	2	3	7
Black-necked Stilt	10	3	21					2		8			
Blue Grosbeak									1			1	
Blue Jay		1	5	2	1	2	5		1	3	3		2
Blue-gray Gnatcatcher				1		1	1					2	
Blue-headed Vireo		2											
Blue-winged Teal	53	253	114	19	18	1	61				2		
Bobolink										2		2	2
Brown Thrasher	2		2	5	3	2	1		1	1	1	3	
Brown-headed Cowbird			9	4	5	17	18		1	5	1	5	8
Canada Goose										18			
Carolina Chickadee					2	1						1	1
Carolina Wren		1		4	1	4	1				4		
Cedar Waxwing											3		
Chipping Sparrow		1	7	1								1	1
Cliff Swallow								2		2			
Common Grackle		9	6	1			11		8	44	8	3	
Common Nighthawk										1			
Common Yellowthroat						1		5	9	14	16	8	7
Dickcissel								79	89	144	130	50	60
Double-crested Cormorant				18									
Downy Woodpecker				1		1	3					2	1
Duck Sp	1		2					1					
Eastern Bluebird				1			1						
Eastern Kingbird												1	
Eastern Meadowlark	7	9	5	7	8	19	11	10	12	8	5	3	
Eastern Phoebe							3						
Eastern Towhee		2	6	8	5	14	11	2	2	4	4	1	3

	Migration							Breeding Season					
Species	2015	2016	2017	2018	2019	2020	2021	2015	2016	2017	2018	2019	2021
Eastern Tufted Titmouse				2		1					1		
Eastern Wood-Pewee									1	1	1		
European Starling		1			3				1	2			
Field Sparrow	7	33	34	37	51	78	95	7	3	24	18	10	17
Fish Crow											2		
Golden-crowned Kinglet						1							
Grasshopper Sparrow			5					3			1	1	
Gray Catbird										1			
Great Blue Heron	1		1	1	1	2							1
Great Crested Flycatcher											1		
Great Horned Owl							1						
Greater Yellowlegs	13	212	36	6	2	1	2						
Green Heron								1		5	1	1	
Green-winged Teal	6	78		7									
Hairy Woodpecker											1		
Henslow's Sparrow										2			
Hooded Merganser							3						
Horned Lark							1						
House Finch			5										
House Wren				1									
Indigo Bunting								4	4	13	14	4	14
Killdeer	18	3	6	10	9		13	6	6	9	9	3	
King Rail		2	1	1				2	2	1	2		
Le Conte's Sparrow			1										
Least Bittern			1								2		
Least Sandpiper							2						
Lesser Yellowlegs	2	6	27	2		1	17			3			
Lincoln's Sparrow		3	6			1				2	1		
Little Blue Heron										1			
Long-billed Dowitcher										1			
Louisiana Waterthrush												3	
Mallard	10	3	6	12	3	8	17	2	1	10	3	1	3
Marsh Wren					2	1							1
Mississippi Kite										1			
Mourning Dove	3	2	5	3	9	4	14	4	7	14	9	3	
Northern Bobwhite					2	1	15				4	6	4
Northern Cardinal	1	1	4	7	6	10	11		2	5	3	7	4
Northern Flicker	1	1	1	4	9	1	1				3		
Northern Harrier		4	1	1	7	3	1						
Northern Mockingbird							2			2	1		
Northern Parula						1							
Northern Shoveler	4	22		20	8	2	4						
Orchard Oriole									3	2	1		4

	Migration							Breeding Season					
Species	2015	2016	2017	2018	2019	2020	2021	2015	2016	2017	2018	2019	2021
Pectoral Sandpiper		501	35	5		6	10				1		
Pied-billed Grebe	1	1		2			1						
Pileated Woodpecker							1				1		
Purple Martin							1			1			
Rail Sp							1						
Raptor Sp			1										
Red-bellied Woodpecker		2	1	2	1	1	4				1	1	
Red-eyed Vireo													1
Red-headed Woodpecker											1	1	
Red-shouldered Hawk						1							
Red-tailed Hawk					1								
Ruby-throated Hummingbird								1					
Sandpiper Sp	6	3	1		147						5	1	
Savannah Sparrow	6	2		18	5	4	1				1		
Scarlet Tanager								1					
Sedge Wren						4						2	
Short-billed Dowitcher													2
Solitary Sandpiper		2	30				1						
Song Sparrow			3	1	2		3						
Sora	1	1	3	1		3	1	1			1		1
Sparrow Sp	2				3		4						
Spotted Sandpiper										1		1	
Summer Tanager									1				2
Swallow Sp				1									
Swamp Sparrow	35	31	49	110	9	83	32						
Tree Swallow		8					3			1			
Vesper Sparrow				3									
Virginia Rail					3	2							
Warbling Vireo											1		
Western Sandpiper	3		20										
White-crowned Sparrow					4		7						
White-eyed Vireo								1			1	1	1
White-throated Sparrow						1	11						
Wilson's Snipe	1	99	134	57	57	1	52				1		
Wood Duck	2		10			3	16		2	13	13		
Wood Thrush													1
Woodpecker Sp							1			1			
Yellow Warbler													1
Yellow-bellied Flycatcher													1
Yellow-billed Cuckoo								1	1		2	2	
Yellow-breasted Chat								2	1	5	6	7	1
Yellow-rumped Warbler						5	1						
Yellow-throated Warbler												1	
Grand Total	208	1311	615	411	407	323	498	148	174	419	310	151	157





WET REGION 4 OVERVIEW

Survey coverage in WET Region 4 in 2021.

<i>Easement</i>	<i>County</i>	<i>Site Acreage</i>	<i># Transects</i>	<i>Migration Visit</i>	<i>Breeding Visit</i>
66642412018CF	Bates	83	3	4/14	6/3
65642497009XR	Henry	124	3	4/14	6/4
66642497009S1 & 66642495009FG	Lafayette	133	5	4/28 (northern easement inaccessible due to flooding)	6/6
66642405009G7 - E	Saline	94	3	4/11	6/2
66642400008YJ	Johnson	147	3	4/15	6/4
666424020096S	Henry	166	5	4/14	6/5
6664249900B3K	Johnson	186	4	Excluded	6/7
6664241000Y51	Pettis	33	1	4/15	6/7
66642412018CM	Saline	82	3	4/26	6/17
66642400008YH	Johnson	240	4	4/15	6/5
66642404009B2	Vernon	205	4	4/13	6/4
66642496009PQ	Pettis	70	2	4/15	6/7
66642405009G7 - W	Saline	157	3	4/11	6/2
75642400000LM	Vernon	787	11	4/13	6/1
66642411013WF	Vernon	40	2	4/12	6/2
66642497009R2	Vernon	456	8	4/12	5/31

Species	Migration				Breeding Season			
	2016	2017	2018	2021	2016	2017	2018	2021
Acadian Flycatcher						1	1	
Alder Flycatcher								1
American Bittern		1		3				
American Coot	3	1						
American Crow		3	1	1	1	3	7	1
American Goldfinch	2	6				4	5	1
American Robin		3						
Bald Eagle				1				
Baltimore Oriole								1
Barn Swallow	1					1		
Barred Owl		1	2	2		2		
Bell's Vireo							1	2
Belted Kingfisher				1				
Black-capped Chickadee		2			2		1	2
Black-crowned Night-Heron						2		
Blue Jay	10	3	4	3	1	3	1	
Blue-gray Gnatcatcher	3	2		1	2	2	1	3
Blue-winged Teal	53	36	15	15				
Brown Thrasher	1				1			
Brown-headed Cowbird	3	2	3	1		7	1	1
Canada Goose	2	7	2	4		11		
Carolina Chickadee			1			1		
Carolina Wren	1		3	1	1	1	4	
Cedar Waxwing						20		
Chickadee Sp	1			1			1	
Chimney Swift						1		
Cliff Swallow								3
Common Grackle			350	2				
Common Yellowthroat							3	8
Cooper's Hawk						1		
Crow Sp	1			1				
Dickeissel							1	
Double-crested Cormorant	6							
Downy Woodpecker	1	1	1	2	1			
Eastern Bluebird						1		
Eastern Meadowlark		1						
Eastern Phoebe	1	1	1	1		2	2	
Eastern Tufted Titmouse	4	4	2	4	4	1	5	2
Eastern Wood-Pewee					1	3	2	1
Field Sparrow		7		2				
Fish Crow	2		5	2			1	2
Great Blue Heron	1	3	2	2	4	3		

Species	Migration				Breeding Season			
	2016	2017	2018	2021	2016	2017	2018	2021
Great Crested Flycatcher						1	2	3
Greater Yellowlegs			1					
Green Heron						3		
Hairy Woodpecker			1		1			
Hermit Thrush			1					
Hooded Merganser						1		
Indigo Bunting					6	13	4	6
Killdeer	2				8			
Lark Sparrow					1			
Least Flycatcher						1		
Lesser Yellowlegs	12		4					
Mallard			3					
Mississippi Kite						1	1	
Northern Cardinal		7	3	2		5	3	4
Northern Flicker			1	1				
Northern Harrier			1					
Northern Parula	4	5		1		4	2	4
Northern Shoveler	4		1					
Pied-billed Grebe		1		6				
Pileated Woodpecker	1	2	1	1	1	3	2	
Prothonotary Warbler					4	2	1	
Purple Finch			1					
Red-bellied Woodpecker	3	3	1	1	2	3	2	
Red-eyed Vireo					1	1	1	
Red-headed Woodpecker			3	3		1		
Red-shouldered Hawk	1	1	1			2	1	1
Ruby-crowned Kinglet	1			1				
Ruby-throated Hummingbird					2			
Rusty Blackbird			1					
Sandpiper Sp	1							
Savannah Sparrow	12		65					
Scissor-tailed Flycatcher		1						
Solitary Sandpiper	2	1						
Song Sparrow			9	2				
Sora		1						
Spotted Sandpiper	2							
Summer Tanager					1	1	1	
Swainson's Thrush						1		
Swamp Sparrow			25	23				
Turkey Vulture	3	7		24	1	10		
Virginia Rail				1				
Warbling Vireo								2
White-breasted Nuthatch			1	1			1	
White-crowned Sparrow		9						

Species	Migration				Breeding Season			
	2016	2017	2018	2021	2016	2017	2018	2021
White-throated Sparrow	1	6		1				
Wild Turkey	1		1	4		1		
Willow Flycatcher						2		
Wilson's Snipe	1							
Wood Duck	7	8	4	4	8	21		5
Woodpecker Sp						1		
Yellow-billed Cuckoo					1	3	2	2
Yellow-crowned Night-Heron						3	1	
Yellow-throated Vireo					2		1	
Grand Total	154	136	521	126	57	154	62	55



Photo: **Turkey Vulture (juvenile)** by Dianne Van Dien





Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Acadian Flycatcher				2	1	
American Coot			5			
American Crow	2	2	6	3	2	
American Goldfinch	1	1	4			
American Pipit	4					
American White Pelican	23					
Bald Eagle	1		3	2		
Baltimore Oriole						1
Barn Swallow						1
Barred Owl	1	3	3	4		
Bell's Vireo				1		
Belted Kingfisher			3			
Black-capped Chickadee			2	2	1	
Blue Jay	2	4	5	1		
Blue-gray Gnatcatcher			6	2	7	3
Blue-winged Teal	16	3	63			
Brown Thrasher		1	1	1	1	
Brown-headed Cowbird	2	10		1	3	
Canada Goose	14		10			
Carolina Chickadee	3					
Carolina Wren	6	4	3	3	4	1
Cattle Egret					1	
Chickadee Sp		3	1		2	
Common Grackle		2				
Common Yellowthroat				6	11	3
Dark-eyed Junco	6					
Double-crested Cormorant	127	17	3			1
Downy Woodpecker	2	3	4	1		
Duck Sp	3	1	4			
Eastern Bluebird	1					
Eastern Kingbird				1	1	
Eastern Meadowlark	1					
Eastern Phoebe	2					
Eastern Tufted Titmouse	1	1	10	5		3
Eastern Wood-Pewee				1	2	1
Evening Grosbeak			1			
Fish Crow	6	1		7	1	
Gadwall			1			
Gray Catbird						1
Great Blue Heron	3	2	4	1		2
Great Crested Flycatcher				1		
Great Egret	23				16	
Great Horned Owl			1			
Greater Yellowlegs	3	4	3			

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Green-winged Teal	18		4			
Hairy Woodpecker						1
Hooded Merganser					1	
Indigo Bunting				9	13	5
Killdeer	8			1		
Least Flycatcher						1
Lesser Yellowlegs	4	1	1			
Louisiana Waterthrush			1	1		
Mallard	8				1	
Mississippi Kite						2
Mourning Dove	2	3	3			
Northern Cardinal	11	10	8	7	4	8
Northern Flicker		1				
Northern Harrier	1	1				
Northern Parula			11	2	3	2
Northern Shoveler	2		3			
Pectoral Sandpiper	3		1			
Pied-billed Grebe			5			
Pileated Woodpecker	2		4	2		1
Prothonotary Warbler				2	4	2
Purple Martin				1		
Red-bellied Woodpecker	2	4	3	4	1	
Red-eyed Vireo				2	1	
Red-headed Woodpecker		1	2	1		
Red-shouldered Hawk	1		1			
Red-tailed Hawk	1					1
Ruby-crowned Kinglet		1	3			
Ruby-throated Hummingbird				2	1	
Savannah Sparrow	6					
Solitary Sandpiper		1				
Song Sparrow	9	3	2			
Sparrow Sp		6				
Spotted Sandpiper			1			
Swamp Sparrow	17	5	30			
Tree Swallow		28				
Turkey Vulture	5	1		12	2	
White-breasted Nuthatch	1		1		1	
White-crowned Sparrow		1				
White-eyed Vireo					1	1
White-throated Sparrow	2	3	2			
Wild Turkey	1		2	3		
Willow Flycatcher						1
Wilson's Snipe		2				
Winter Wren		1				
Wood Duck	3	3	29	10	5	17

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Yellow-bellied Sapsucker	1					
Yellow-billed Cuckoo				3	2	3
Yellow-breasted Chat				1		1
Yellow-rumped Warbler	2	4	14			
Yellow-throated Vireo					1	
Grand Total	363	142	277	108	94	63



Photo: **Wood Ducks** by Mark Ramsey





Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Alder Flycatcher					9	
American Bittern	1					
American Coot	2					
American Crow	3	4	5	5	2	
American Goldfinch	1	3	23	1	4	1
American Redstart					3	
Baltimore Oriole	2			1	1	
Barn Swallow	3			1	6	2
Barred Owl	1	1	2		1	
Belted Kingfisher			1			
Black-capped Chickadee	4	1	6	3	1	3
Black-crowned Night-Heron			1			
Blackpoll Warbler					1	
Blue Jay		3	1	1		1
Blue-gray Gnatcatcher	2		6			1
Blue-winged Teal	80	79	19		2	
Brown-headed Cowbird	1		16	2	1	5
Canada Goose	15	4	1	5	10	
Carolina Wren	1		1			
Chestnut-sided Warbler			1			
Chimney Swift	16				3	
Common Grackle	2		1	1	2	1
Common Yellowthroat	4		4	7	16	2
Cooper's Hawk	1					
Dickcissel	2		1			1
Double-crested Cormorant						6
Downy Woodpecker		1	1	1		
Duck Sp				1		
Dunlin					1	
Eastern Bluebird		1		1		
Eastern Kingbird			1		2	3
Eastern Meadowlark	2	1	4	1	1	2
Eastern Phoebe			3			
Eastern Tufted Titmouse		2	2	2		
Eastern Wood-Pewee					1	
European Starling		19	13		2	
Field Sparrow		2				
Fish Crow	1			1		
Flycatcher Sp					1	
Gray Catbird			1	3	4	
Great Blue Heron	7	3	5	6	2	10
Great Crested Flycatcher	1		5	1	2	3
Great Egret	1	1		1		6

66642497009S1 & 66642495009FG

Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Great-tailed Grackle			1			
Greater Yellowlegs		6	6			
Green Heron			2	3		
Green-winged Teal					1	
Hairy Woodpecker						1
Hawk Sp	2			1		
Hooded Merganser		2			1	3
House Wren				1	1	
Indigo Bunting	5			5	10	7
Killdeer		1	2	2	1	
Least Bittern				1		
Least Flycatcher	1					
Least Sandpiper		6	1		1	
Lesser Yellowlegs	13	63	7			
Mallard	4	2		2		
Mississippi Kite				3		
Mourning Dove	1			1	2	2
Nashville Warbler	1		3		1	
Northern Bobwhite	3			6		
Northern Cardinal	3	5	13	10	5	7
Northern Parula		1	2			
Northern Pintail	1			1		
Northern Shoveler		3				
Northern Waterthrush			5			
Orange-crowned Warbler	1					
Orchard Oriole						1
Pectoral Sandpiper		76	111			
Pied-billed Grebe	1			1		
Pileated Woodpecker		1	1			
Prothonotary Warbler	2		14			1
Purple Martin						1
Red-bellied Woodpecker	2	2	1	1	2	1
Red-eyed Vireo			1		1	1
Red-headed Woodpecker			1			
Red-shouldered Hawk				1		
Red-tailed Hawk					1	
Rose-breasted Grosbeak	1		2			
Ruby-crowned Kinglet			1			
Rusty Blackbird			2			
Sandpiper Sp	4					
Scarlet Tanager				1		
Semipalmated Plover		5	14		7	
Solitary Sandpiper	1	8	1			

Species	Migration			Breeding Season		
	2016	2017	2021	2016	2017	2021
Spotted Sandpiper			5			
Summer Tanager			1	1		1
Swamp Sparrow		5				
Tree Swallow	4	2	9			
Turkey Vulture		2	1	4		
Warbling Vireo	2		1	2		1
Western Palm Warbler			5			
White-breasted Nuthatch			2			
White-eyed Vireo						1
White-throated Sparrow		14				
Wild Turkey					1	
Willow Flycatcher				1	2	
Wilson's Snipe		11	2			
Wood Duck	13		11	5	6	1
Woodpecker Sp				2		
Yellow Warbler			2	1	3	
Yellow-billed Cuckoo				4	3	4
Yellow-rumped Warbler	5	5	25			
Yellow-throated Vireo	1		3			1
Grand Total	224	345	382	105	127	81



Photo: **American Goldfinches** by Logan Hutchinson



66642497009S1 & 66642495009FG - MIGRATION



Species	Migration				Breeding Season				
	2016	2017	2018	2021	2016	2017	2018	2019	2021
American Coot			1	120					
American Crow		1							1
American Goldfinch					1				
American Kestrel		1							
American Tree Sparrow			13						
Bald Eagle			1						
Bank Swallow					9				
Barn Swallow		2				2	1		
Barred Owl									1
Bell's Vireo							1		
Belted Kingfisher	1		1		1				
Black-capped Chickadee		2							
Blue Jay		1				1			
Blue-gray Gnatcatcher		1							
Blue-winged Teal	29	16	100	20					
Brown Thrasher	1	1					2		
Brown-headed Cowbird		2							
Canada Goose	1	2		9					1
Carolina Wren		1						1	1
Cliff Swallow					97	33	67	19	129
Common Grackle						36		29	
Common Yellowthroat		2			2	3	1	2	4
Dickcissel					1		11	1	3
Duck Sp						1			
Eastern Bluebird	2								
Eastern Kingbird					1				
Eastern Meadowlark	1		2			1			
Eastern Phoebe		1							
Eastern Wood-Pewee								1	
Field Sparrow	3		3						
Gadwall			1	2					
Gray Catbird	1							1	
Great Blue Heron		1	2	2	1	2	3	2	2
Great Egret			1						
Greater Yellowlegs	11	1	5						
Green Heron					1	1			
Green-winged Teal			139						
Hooded Merganser							3		
Ibis Sp									1
Indigo Bunting					6	3	3	4	1
Killdeer	2	1	8		4	3	11		

Species	Migration				Breeding Season				
	2016	2017	2018	2021	2016	2017	2018	2019	2021
Least Sandpiper	2								
Lesser Yellowlegs	6	17	1						
Long-billed Dowitcher			4						
Mallard			78	23					
Marsh Wren		1							
Mourning Dove					2				
Northern Cardinal		3	1				1		1
Northern Harrier			1						
Northern Rough-winged Swallow	4	1				8		7	
Northern Shoveler			3	6					
Orange-crowned Warbler		2							
Pectoral Sandpiper		1							
Pied-billed Grebe				4					
Pileated Woodpecker					1				
Prothonotary Warbler	1				1				
Purple Martin					2				
Red-bellied Woodpecker	1						1		
Red-shouldered Hawk			1		1				
Ring-necked Duck			30	12					
Savannah Sparrow	29		9						
Sedge Wren		1							
Song Sparrow		2	10						
Spotted Sandpiper	1	1							
Swamp Sparrow	11	6	42	5					
Tree Swallow	3	120	2	92		1		2	10
Turkey Vulture	1	1				1			
Warbling Vireo					1				
Western Palm Warbler	1								
White-eyed Vireo							1		
White-throated Sparrow			5						
Wild Turkey						1			
Wilson's Snipe			5						
Wood Duck						11	20	16	
Yellow-billed Cuckoo								2	
Yellow-crowned Night-Heron								4	
Grand Total	112	192	469	295	132	108	126	91	155





Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
American Bittern	2									
American Coot	58	6	260	90	461					
American Crow		3			1		2			
American Golden-Plover					1					
American Goldfinch		2				2	1			
American White Pelican	14		15	15	43					
American Wigeon			1							
Bald Eagle	1	1		1		1				1
Baltimore Oriole									1	
Bank Swallow						2	15			
Barn Swallow		2	1	1			18	14		
Barred Owl					2			1		
Bell's Vireo						1	2		4	1
Belted Kingfisher		1			1			2		
Black Tern								1		
Black-capped Chickadee			1							
Blue Grosbeak									1	
Blue Jay					2	1		1		
Blue-gray Gnatcatcher	3						1	2	1	
Blue-winged Teal	136	50	81	69	221	6	1			
Brown Thrasher				2				2	1	
Brown-headed Cowbird	1									
Canada Goose	12	14	10	18	40	28	28		30	3
Carolina Wren			1							
Cliff Swallow							82			
Common Grackle		1					1	6	2	
Common Nighthawk							5			
Common Yellowthroat	4					4	8	5	7	2
Cooper's Hawk		1								
Dickcissel								4		
Double-crested Cormorant	9	24	16	70	1					
Downy Woodpecker		1		1	1				1	
Duck Sp						3				
Eastern Bluebird								1		
Eastern Kingbird	1						3	1	2	1
Eastern Meadowlark				1						
Eastern Tufted Titmouse		2			3					
Field Sparrow		2			1					
Fish Crow	8		1					1		
Forster's Tern									1	

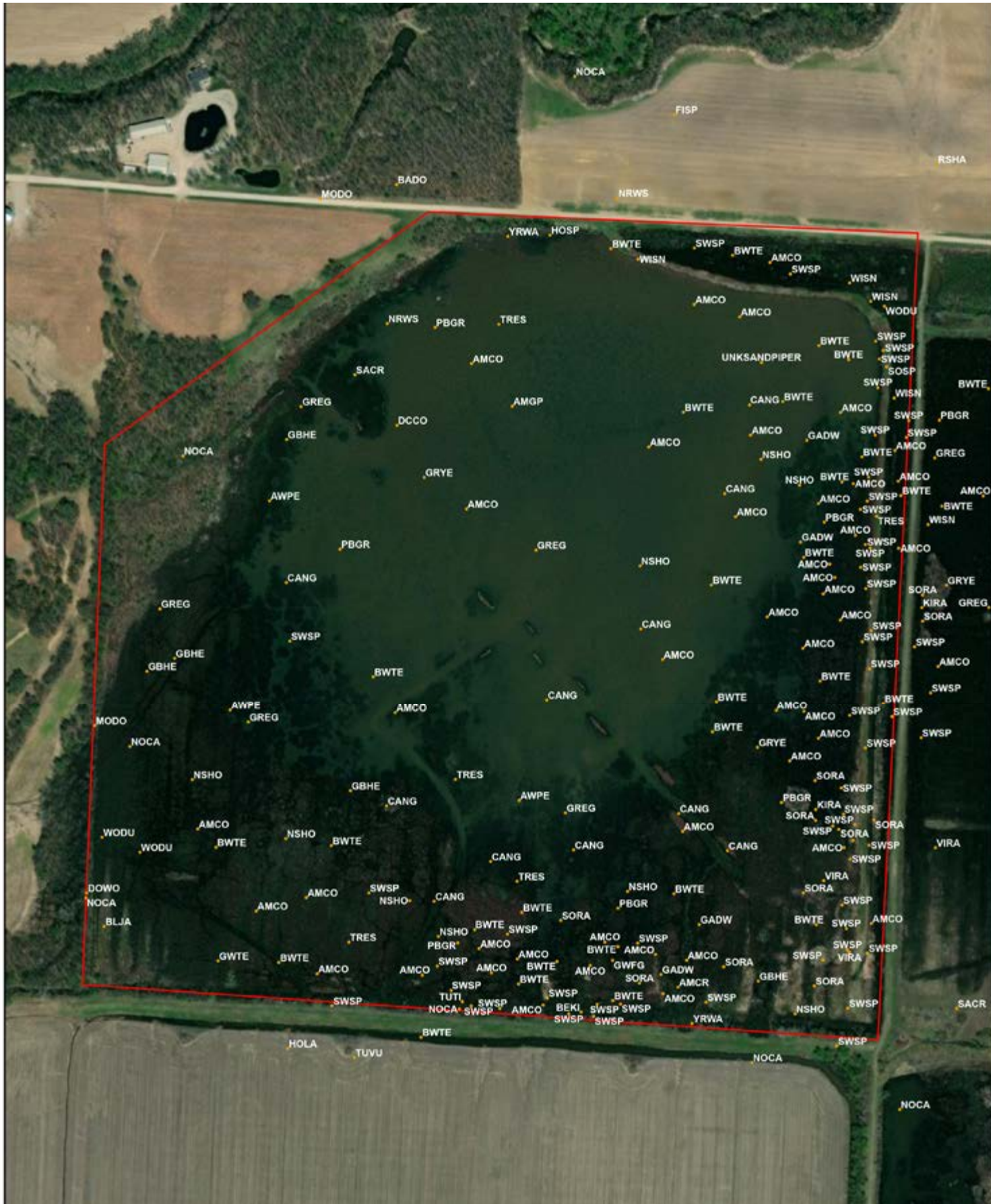
	Migration					Breeding Season				
Species	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Franklin's Gull			12							
Gadwall			595	34	10					
Goose Sp					1					
Gray Catbird							1		1	
Great Blue Heron	9	2	2	1	6	2	1	28	1	6
Great Egret		14	17		41		5	7		4
Great Horned Owl					1					
Greater White-fronted Goose							1			
Greater Yellowlegs	10	1	2	9	3					
Green Heron		2						1		
Green-winged Teal			43		1					
Henslow's Sparrow									1	
Hooded Merganser				1						
Horned Lark					1					
House Sparrow					1					
Indigo Bunting						1	1		2	
Killdeer		1		2		2			2	
King Rail					2					
Lark Sparrow	1									
Least Bittern			1			9	13	2		
Least Sandpiper							5			
Lesser Scaup			5	2						
Lesser Yellowlegs	2	8	6	2						
Louisiana Waterthrush									1	
Mallard			2				1	5		3
Marsh Wren	1	1	2							
Mourning Dove		1		2	2		1	2	2	2
Night-heron Sp								1		
Northern Cardinal	2	3			8	1	3	1	3	
Northern Rough-winged Swallow					14					
Northern Shoveler	2	15	29	7	41					
Orchard Oriole						1	2		2	2
Palm Warbler	1									
Pectoral Sandpiper			5	5						
Peregrine Falcon				2						
Pied-billed Grebe		5	4	1	7		2			
Pileated Woodpecker		1			1					
Prothonotary Warbler	1									
Purple Martin			2							
Red-bellied Woodpecker		1			1	2	1		2	
Red-eyed Vireo								1		
Red-shouldered Hawk		1			2			1		

	Migration					Breeding Season				
Species	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Red-tailed Hawk		1					1			
Redhead	1									
Ring-necked Duck	3			3				1		
Ruddy Duck				17						
Sandhill Crane	2	2		2	4	1	2	2		
Sandpiper Sp				13	150					
Savannah Sparrow	2									
Sedge Wren		4								
Slate-colored Junco				1						
Solitary Sandpiper		1								
Song Sparrow					1					
Sora	12	13	1		11		3			
Swamp Sparrow	2	5	1	6	54					
Tree Swallow	26	8	13	18	153		69			
Turkey Vulture		1		6	1		1			
Virginia Rail	1				3					
Warbling Vireo	4					2		1		1
Western Palm Warbler		1								
Willow Flycatcher							2		2	
Wilson's Snipe	3		3		19					
Wood Duck	2	9		1	19	21	6	47	6	4
Yellow Warbler							3			
Yellow-billed Cuckoo						1			1	1
Yellow-breasted Chat									1	
Yellow-rumped Warbler					2					
Grand Total	336	211	1132	403	1338	91	291	141	78	31



Photo: Canada Geese by Nikki Madole





Species	Migration				Breeding Season		
	2015	2016	2019	2021	2015	2016	2021
American Bittern			1	1			
American Coot			3	21			
American Crow		7		4			
American Goldfinch	1	2		4			2
American Kestrel					1	2	
American Pipit			2				
American White Pelican			1				
Bald Eagle	1	2	4	1	2		
Barn Swallow	2	4				1	4
Barred Owl			2				
Bell's Vireo					1	3	4
Black-crowned Night-Heron							1
Blue Jay		3	2	1			
Blue-gray Gnatcatcher							3
Blue-winged Teal	87	46	273	276			2
Bonaparte's Gull			1				
Brown Thrasher	2		1				1
Brown-headed Cowbird	3	2	4			1	1
Canada Goose	1		8	5			
Carolina Chickadee		1	1				
Carolina Wren			1				
Chimney Swift							1
Common Grackle						2	18
Common Yellowthroat		1			2	3	6
Crow Sp	4						
Dickcissel						35	17
Double-crested Cormorant		1	127	33	19	1	
Downy Woodpecker							1
Eastern Kingbird						1	
Eastern Meadowlark		4				2	
Eastern Tufted Titmouse				2			1
European Starling	1	1	5	3		3	8
Field Sparrow	3	6	6			3	
Fish Crow	1		8	3			
Gadwall				1			
Gray Catbird						2	
Great Blue Heron	8	1	4	2	6	5	4
Great Egret	4			6	10		
Great Horned Owl		1					
Greater Yellowlegs	128	4	39				
Green Heron							6
Green-winged Teal		2	48	17			

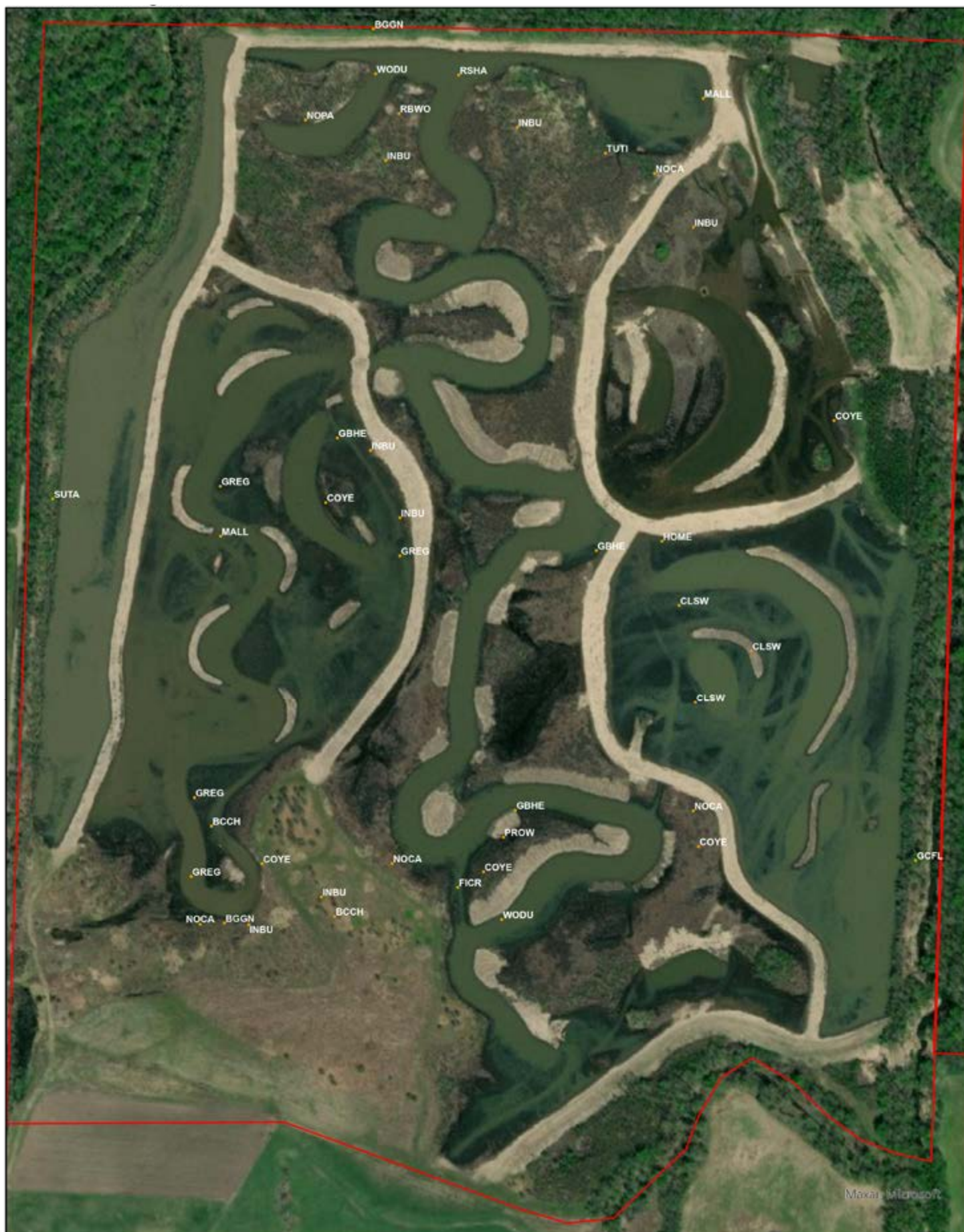
Species	Migration				Breeding Season		
	2015	2016	2019	2021	2015	2016	2021
Hooded Merganser							1
House Wren							1
Hudsonian Godwit	2						
Indigo Bunting					1	4	11
Killdeer		2	1				
Lesser Yellowlegs		33	17	4			
Mallard			11				
Mourning Dove	4	1	1			3	
Northern Cardinal	1	4	7	7		1	2
Northern Harrier		1					
Northern Parula		1					
Northern Rough-winged Swallow				2			
Northern Shoveler		3	91	91			
Orchard Oriole						2	
Pectoral Sandpiper		53		1			
Prothonotary Warbler							1
Purple Martin		3					
Red-bellied Woodpecker			1			1	
Red-eyed Vireo		1					
Red-shouldered Hawk		2					
Ring-billed Gull			3				
Savannah Sparrow	5	7		1			
Sedge Wren	1						
Sharp-shinned Hawk				1			
Solitary Sandpiper		1					
Song Sparrow			3		1		
Sora		1		1	4		
Sparrow	2		1				
Swamp Sparrow	4		6	2			
Tree Swallow		1	2	37			
Turkey Vulture				2			2
Unidentified Blackbird	1						
Warbling Vireo							2
Western Palm Warbler		1					
White-throated Sparrow			1	1			
Wilson's Snipe	14	20		1			
Wood Duck		4	2		2		
Yellow-billed Cuckoo					2		1
Yellow-breasted Chat					1	2	4
Yellow-headed Blackbird				4			
Yellow-rumped Warbler	1						
Grand Total	281	227	688	535	52	77	105





Species	Migration		Breeding Season		
	2015	2019	2015	2019	2021
Alder Flycatcher				2	
American Coot	7	2			
American Goldfinch		1			
American Robin		1			
Bald Eagle				1	
Baltimore Oriole				1	
Barn Swallow		1		1	
Black-capped Chickadee		2			2
Blue Jay		1			
Blue-gray Gnatcatcher		2		1	2
Blue-winged Teal	210	32		1	
Brown Thrasher		5			
Brown-headed Cowbird		5		1	
Canada Goose	11	5	1	50	
Carolina Chickadee	1				
Carolina Wren		2			
Cliff Swallow					5
Common Grackle		3			
Common Yellowthroat				5	5
Dickcissel				1	
Double-crested Cormorant	2				
Downy Woodpecker				2	
Duck Sp	5			1	
Eastern Meadowlark		2			
Eastern Tufted Titmouse		2			1
Eastern Wood-Pewee				1	
European Starling		2			
Fish Crow	8	10			3
Gray Catbird				3	
Great Blue Heron	5	1	4	1	3
Great Crested Flycatcher				1	1
Great Egret			3	1	6
Greater Yellowlegs		5			
Green Heron			1	1	
Hooded Merganser			1		1
Indigo Bunting				8	7
Killdeer		2			
Least Sandpiper		1			
Lesser Yellowlegs		17			
Mallard				2	5
Mourning Dove		1		2	
Northern Cardinal	1	5		4	6
Northern Flicker		1	1		

Species	Migration		Breeding Season		
	2015	2019	2015	2019	2021
Northern Parula					1
Northern Shoveler	10	35			
Pectoral Sandpiper		12			
Pied-billed Grebe	2				
Pileated Woodpecker	2				
Prothonotary Warbler				2	1
Red-bellied Woodpecker		2		1	1
Red-eyed Vireo				1	
Red-headed Woodpecker		1			
Red-shouldered Hawk					1
Ruby-crowned Kinglet		4			
Sandhill Crane		3		1	
Savannah Sparrow		2			
Solitary Sandpiper				1	
Sparrow Sp	1				
Spotted Sandpiper		1		1	
Summer Tanager					1
Swamp Sparrow	1	6			
Tree Swallow	28	3		3	
Turkey Vulture		2			
White-crowned Sparrow		1			
White-rumped Sandpiper				3	
White-throated Sparrow		1			
Wilson's Snipe		1			
Wood Duck	2		1	1	2
Yellow-billed Cuckoo				2	
Yellow-rumped Warbler		5			
Grand Total	296	190	12	107	54



6664241000Y51

2021 Survey Dates

Migration: April 15th

Breeding Season: June 7th - flooded, birds only on
edges of property

Acreage: 33

Species	Migration			Breeding Season	
	2018	2019	2021	2018	2019
American Coot	45		2		
American Crow				1	
American Goldfinch				1	1
Barn Swallow					2
Bell's Vireo				1	
Black-capped Chickadee				1	
Blue Jay		1	1	1	
Blue-winged Teal	9	26	57		
Brown Thrasher	3	1	1		
Brown-headed Cowbird		1	2	1	
Canada Goose	15	4	17	1	1
Carolina Wren		1		3	
Common Merganser	1				
Common Yellowthroat				4	2
Dickcissel				4	3
Double-crested Cormorant			1		
Duck Sp					1
Eastern Meadowlark		2			
Eastern Phoebe				1	
Eastern Tufted Titmouse				1	
Eastern Wood-Pewee					1
European Starling		5			
Field Sparrow	1	1			
Gadwall	9				
Gray Catbird				1	
Great Blue Heron	1			2	3
Greater Yellowlegs	4		2		
Green-winged Teal		17			
Hooded Merganser				1	
Indigo Bunting				3	2
Killdeer				1	1
Lesser Scaup	6				
Mourning Dove		5		2	
Northern Cardinal		5	1	3	3
Northern Shoveler		20	2		

6664241000Y51

Species	Migration			Breeding Season	
	2018	2019	2021	2018	2019
Orchard Oriole				1	
Pied-billed Grebe	3		10		
Purple Martin				1	
Red-bellied Woodpecker					1
Ruby-crowned Kinglet			2		
Ruby-throated Hummingbird				1	
Song Sparrow		1			
Swamp Sparrow	1	1	4		
Tree Swallow				3	
White-throated Sparrow			1		
Willow Flycatcher				1	
Wood Duck			4	4	
Yellow-billed Cuckoo				1	1
Yellow-breasted Chat				3	1
Grand Total	98	91	107	48	23



Photo: **Pied-billed Grebe** by Nic Salick



Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Acadian Flycatcher				1	
American Bittern				1	3
American Coot		29	47		
American Crow		1			4
American Redstart				2	
American Wigeon		8			
Bald Eagle			2		
Barn Swallow	1			5	11
Bell's Vireo				2	3
Belted Kingfisher		1		1	
Black-capped Chickadee		1		1	
Blue Grosbeak					2
Blue Jay	1	1			
Blue-gray Gnatcatcher	2	1	1	2	
Blue-winged Teal	3	73	72	3	
Brown Thrasher	1				
Brown-headed Cowbird		1			
Canada Goose	14	2	5		
Carolina Wren					1
Common Yellowthroat			1	14	6
Double-crested Cormorant			2		
Downy Woodpecker	1				
Eastern Bluebird		1			
Eastern Kingbird			1	1	
Eastern Phoebe		1			
Eastern Towhee		1			
Eastern Tufted Titmouse		1		1	
Eastern Wood-Pewee				1	
Field Sparrow	2	2			
Fish Crow	4		1	1	1
Flycatcher Sp	3				
Gray Catbird			2		2
Great Blue Heron	1	1		5	2
Great Crested Flycatcher				1	3
Greater Yellowlegs	1				
Great-tailed Grackle			1		
Green Heron			1		4
Indigo Bunting				5	2
Least Bittern				5	
Least Sandpiper	8				
Lesser Yellowlegs			1		
Lincoln's Sparrow	1				
Louisiana Waterthrush	1	1			

Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Mallard		5	2		
Marsh Wren	3	2			
Northern Cardinal	1			1	
Northern Mockingbird	1				
Northern Parula	1			2	1
Northern Rough-winged Swallow			1		
Northern Shoveler	9		2		
Osprey			1		
Pied-billed Grebe	1	1			1
Pileated Woodpecker	1	1	1	1	
Red-bellied Woodpecker	1		1	2	
Red-eyed Vireo					1
Red-shouldered Hawk		1			
Red-tailed Hawk	2	1			
Ruby-crowned Kinglet	1	1			
Ruby-throated Hummingbird				2	
Snowy Egret					5
Sora			4		
Swamp Sparrow	23	14	2		
Tree Swallow			1		
Turkey Vulture				1	
Virginia Rail			1		
Warbling Vireo			3	1	1
White-breasted Nuthatch	1				
White-eyed Vireo			1	1	
White-throated Sparrow	1				
Wilson's Snipe	2		1		
Wood Duck	2	2		5	3
Yellow-billed Cuckoo				5	2
Yellow-breasted Chat			1	1	2
Yellow-rumped Warbler	1				
Yellow-throated Vireo				1	
Yellow-throated Warbler	1		1		
Grand Total	96	154	160	75	60





66642400008YH

2021 Survey Dates
 Migration: April 15th
 Breeding Season: June 5th
Acreage: 240

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Alder Flycatcher							1		2	1
American Bittern	1	1		1	1					
American Coot	1		15	25	15					
American Crow		1	5		1	2	4	4	1	
American Goldfinch	3	11				2	5	2		
American Robin		1						1		
American White Pelican			7	10						
Bald Eagle		1					1			
Baltimore Oriole						1	1		2	
Barn Swallow				1	1		3	3	1	
Barred Owl		1	1	1				2		
Bell's Vireo						4	2	2	1	
Belted Kingfisher	1	1	1							
Bittern Sp	1									
Black-capped Chickadee		5	3	5	2		1			2
Blue Grosbeak								1		
Blue Jay	74	3	3	3	2	1	2	4		1
Blue-gray Gnatcatcher	1	3		4			3		1	
Blue-winged Teal	49	47	52	62	209				1	
Brown Thrasher	1		1	4			1	2	1	
Brown-headed Cowbird	30	14	1	15	4	4	3	6	8	6
Canada Goose	8	5	10	22	19	1	11	12		
Carolina Wren	2		3	1				3		
Cedar Waxwing							12		2	
Chickadee Sp									1	
Chimney Swift	2									
Cliff Swallow							10			10
Common Grackle	2			2	1	5	2	1	3	
Common Yellowthroat	7					6	15	15	15	1
Cooper's Hawk		1								
Crow Sp									1	
Dickcissel						1	6	5		
Double-crested Cormorant	3		24	1	72					1
Downy Woodpecker	1	1	1	1						
Duck Sp	7									
Eastern Bluebird	1	5							1	
Eastern Kingbird						2	1		3	
Eastern Meadowlark	2	6	6	3		2		1		
Eastern Phoebe							1			
Eastern Towhee	1			1						
Eastern Tufted Titmouse	2	3	1	1	1	2	2	2	1	
Eastern Wood-Pewee							2			
European Starling							5			
Field Sparrow							4			

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Fish Crow	12		71	2	4	3		2		
Gray Catbird	1	1					1	3	5	
Great Blue Heron	18	4	13	2	4	9	4	8	2	1
Great Crested Flycatcher	1					2	4	4	3	
Great Egret	4	13		3	10	3	4	28	4	1
Great Horned Owl				1						
Great-tailed Grackle	1									
Greater Yellowlegs	18	6	10	1						
Green Heron	2					1		3	1	
Green-winged Teal			18							
Hairy Woodpecker									1	
Henslow's Sparrow								3		
Hooded Merganser		1	4		8	1		1		
House Wren	2							1	1	1
Indigo Bunting	1					12	4	13	15	4
Killdeer	6		3			1		1		
Least Bittern	1							1		
Least Flycatcher							1			
Least Sandpiper	1									
Lesser Scaup			2							
Lesser Yellowlegs		36	130	1						
Mallard			19	1	4					
Marsh Wren	1		1							
Mourning Dove	2	1	2	2		5		3	4	
Northern Bobwhite	2					5		2		
Northern Cardinal	7	16	6	3	9	6	7	8	10	4
Northern Flicker	1	1	1			3	1			
Northern Parula							1			
Northern Pintail			7							
Northern Rough-winged Swallow	3			2						
Northern Shoveler			26		8					
Orchard Oriole						1	1		1	
Osprey		1								
Pectoral Sandpiper	1		6		2					
Pied-billed Grebe			2	3	9					
Pileated Woodpecker	1	1			1	1	3		1	1
Prothonotary Warbler	2	2				2		3	5	1
Red-bellied Woodpecker	3	3	3	2	3	4	2	1	2	
Red-eyed Vireo									1	
Red-headed Woodpecker	2	1		1		3				
Red-shouldered Hawk		2			3		1		1	
Ring-necked Duck			3							
Rose-breasted Grosbeak	1					1				
Ruby-crowned Kinglet		2		1						

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Ruby-throated Hummingbird	1									
Sandhill Crane				1					1	
Sandpiper Sparrow	15		1							
Savannah Sparrow			1							
Sedge Wren	4	2								
Solitary Sandpiper	1			1						
Song Sparrow		1	2	5	1					
Sora	2	2								
Spotted Sandpiper	3									
Summer Tanager						1				
Swainson's Thrush							1			
Swallow	8									
Swamp Sparrow	2	7	16	18	4					
Tree Swallow	10	13	1	36	3	6	13	17	1	
Turkey Vulture		1	2	1	2	4				
Warbling Vireo	1	3						1	6	
Western Palm Warbler		3								
White-breasted Nuthatch						1				
White-eyed Vireo								1		
White-throated Sparrow				2						
Wild Turkey			1							
Willow Flycatcher						1	2			
Wilson's Snipe		9	8	6	1					
Wood Duck	1	7	2	9	2	6	12	26	1	2
Wood Thrush	1						2			
Woodpecker	1					1	1	1		
Yellow Warbler							10			
Yellow-billed Cuckoo						3		3	1	2
Yellow-breasted Chat						1	2			
Yellow-rumped Warbler		7	1	5	2		1			
Yellow-throated Vireo						1				
Grand Total	344	256	496	272	408	121	176	200	112	39



Photo: Northern Cardinal by Tammy Simmons





Species	Migration				Breeding Season		
	2015	2019	2020	2021	2015	2019	2021
American Bittern	2			1	2		
American Coot	21	21	19	2			
American Crow	3	3	1	4			
American Goldfinch	1	3	1				1
American Robin		1					
American Woodcock				2			
Bald Eagle	1	2	5	2			6
Baltimore Oriole			1				
Barn Swallow		2	3	1	1	3	
Barred Owl		1	1			1	
Bell's Vireo					2	12	6
Belted Kingfisher				1		1	1
Black-capped Chickadee		3	1				
Blue Jay		3	7	3		1	
Blue-gray Gnatcatcher		4	4	1			1
Blue-winged Teal	130	32	70	104			
Brown Thrasher	2	3		3			
Brown-headed Cowbird	2	1	3	6		1	
Bufflehead		2					
Canada Goose	3	5	14	6			
Carolina Chickadee				1			
Carolina Wren		2	1			2	
Chickadee Sp				1			
Cliff Swallow			1				
Common Grackle						1	
Common Yellowthroat	2		19		4	7	13
Crow Sp				2			
Dark-eyed Junco				2			
Dickcissel					1	2	16
Double-crested Cormorant			2				
Downy Woodpecker		2	1				
Duck Sp	13					1	
Eastern Bluebird		1	1				
Eastern Kingbird			1			1	1
Eastern Phoebe		1			1		
Eastern Tufted Titmouse		2	5	1			1
Eastern Wood-Pewee						2	
Field Sparrow			1				
Fish Crow		2	31	28		1	
Gadwall	42	4					
Gray Catbird						2	
Great Blue Heron			2	3		15	12
Great Crested Flycatcher			1				1

Species	Migration				Breeding Season		
	2015	2019	2020	2021	2015	2019	2021
Great Egret		2	3		1	7	1
Greater Yellowlegs	9	6	22	14			
Green Heron					2	2	2
Green-winged Teal	2			6			
Hairy Woodpecker		1					
Hooded Merganser		21					
Indigo Bunting					5	10	12
Kentucky Warbler					1		
Killdeer	1		1			3	1
Lesser Yellowlegs		1	11	5			
Mallard		1		1			
Marsh Wren			5				
Mississippi Kite					2		
Northern Cardinal		5	8	8	1	7	3
Northern Flicker				1		1	
Northern Mockingbird	1						
Northern Parula	1	2	4	1			1
Northern Pintail						2	
Northern Rough-winged Swallow				8			
Northern Shoveler	10	9		5			
Ovenbird						1	
Pectoral Sandpiper				12			
Pied-billed Grebe	1	1	1	2			
Pileated Woodpecker	2						
Prothonotary Warbler			1				1
Red-bellied Woodpecker		2		1			
Red-eyed Vireo			1			1	
Red-headed Woodpecker			3			1	
Red-shouldered Hawk	1	1	1	2	1		1
Red-tailed Hawk			1				
Ring-necked Duck		2					
Ruby-crowned Kinglet		3		1			
Rusty Blackbird		1	1				
Sedge Wren	1		1				
Solitary Sandpiper			3				
Song Sparrow		1		1			
Sora	4		8	1			
Sparrow Sp	4	4					
Swamp Sparrow	4	16	33	12			
Tree Swallow	12	1	26	1	2		1
Turkey Vulture		1		1			
Unidentified Sandpiper Species			5				
Virginia Rail			7				
Warbling Vireo			1				
Western Palm Warbler			1				

Species	Migration				Breeding Season		
	2015	2019	2020	2021	2015	2019	2021
White-breasted Nuthatch			1				
White-eyed Vireo			2				1
White-faced Ibis			32				
White-throated Sparrow		1	9				
Wild Turkey	1		1			1	
Willow Flycatcher						2	
Wilson's Snipe	11	2		3			
Wood Duck		4	7	3	11	6	6
Yellow Warbler			2			1	
Yellow-billed Cuckoo						2	
Yellow-breasted Chat					2		2
Yellow-crowned Night-Heron		1				1	
Yellow-rumped Warbler		15	28				
Grand Total	287	204	426	263	39	101	91



Photo: **Great Blue Heron** by Hannah Smentkowski





Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
American Avocet			3			
American Bittern	10	3	2			
American Coot	36		72			
American Crow		1		3		
American Goldfinch		1				
American Robin		2	1			
Bald Eagle			1			
Baltimore Oriole					1	
Barn Swallow	11		4			1
Barred Owl	1					
Bell's Vireo					2	1
Belted Kingfisher		1	1			
Black-capped Chickadee			1			
Blue Jay		7	1			
Blue-gray Gnatcatcher		1				
Blue-winged Teal	23	12	114		1	
Brown Thrasher		1	1			
Brown-headed Cowbird				1		
Canada Goose	3	7	4		1	1
Carolina Wren				1		
Cliff Swallow	2					
Common Grackle				216		
Common Yellowthroat	6			9	6	8
Dickcissel				4		
Double-crested Cormorant			9			
Downy Woodpecker			1			
Eastern Kingbird						2
Eastern Phoebe		1				
Eastern Towhee				1		
Eastern Tufted Titmouse			1			
Eastern Wood-Pewee					1	
Fish Crow		8	6	9		
Great Blue Heron	6			1	4	
Great Egret	41			24		4
Great-tailed Grackle	1					
Greater Yellowlegs		1	1			
Green Heron				1		
Green-winged Teal		12	4			
Hooded Merganser				1		
Indigo Bunting				3	2	5
Killdeer				3		
King Rail	2					
Least Bittern					1	
Lesser Yellowlegs	1	1	1			

Species	Migration			Breeding Season		
	2018	2019	2021	2018	2019	2021
Lincoln's Sparrow	1					
Mallard			4			
Marsh Wren	13	1	1			
Mississippi Kite				1		
Mourning Dove		8	1	1		
Northern Cardinal		3	2	2	2	
Northern Flicker			1			
Northern Rough-winged Swallow	3					
Northern Shoveler	34		3			
Orchard Oriole					1	1
Pied-billed Grebe	3		3			
Pileated Woodpecker		1			1	
Prothonotary Warbler						1
Red-bellied Woodpecker		1		1		
Red-shouldered Hawk			3	1	1	
Sandpiper Sp		6				
Song Sparrow	4					
Sora	10					
Sparrow Sp		4				
Swamp Sparrow	17	4	6			
Tree Swallow	210		40		2	
Turkey Vulture		2				
Virginia Rail	1		3			
Warbling Vireo				2		1
White-throated Sparrow		2	3			
Wilson's Snipe	7		4			
Wood Duck		2	2	3		
Yellow-billed Cuckoo				1	1	
Yellow-breasted Chat				1	1	1
Yellow-rumped Warbler			1			
Grand Total	446	93	305	290	28	26





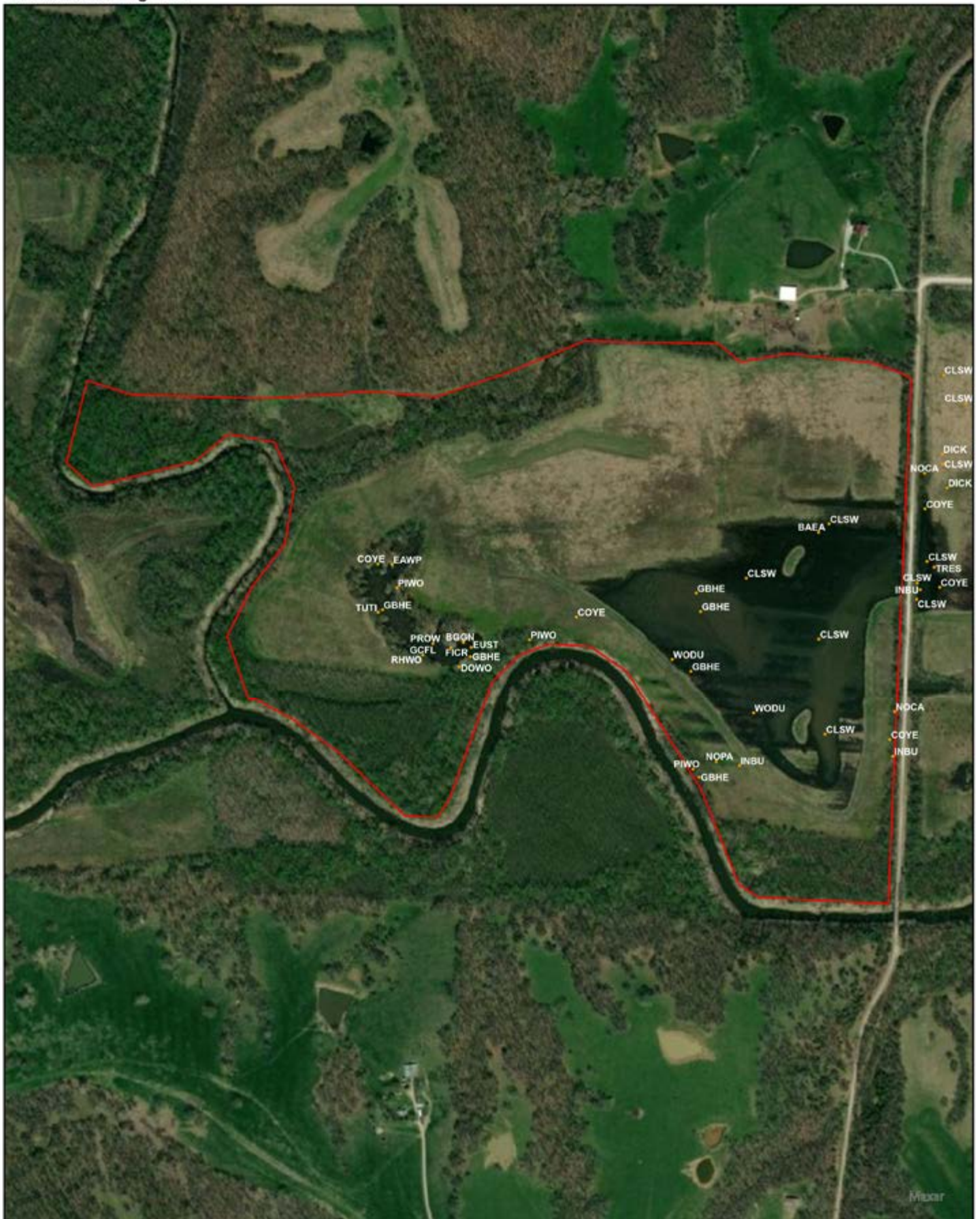
Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
American Bittern			1						1	
American Coot			8	1	1					
American Crow	1		3		1	1		3		
American Goldfinch	5	1								
American Wigeon			1		1					
Bald Eagle		1	2	2		1	1			1
Baltimore Oriole						1				
Bank Swallow									1	
Barn Swallow	1						1	2		
Bell's Vireo								1		
Belted Kingfisher	1					2		2		
Black-capped Chickadee	1					4	3		1	
Blue Grosbeak						3				
Blue Jay	26		1	1		1			3	
Blue-gray Gnatcatcher	2	1				2	4	1	1	1
Blue-winged Teal	44	18	79	13	93					
Brown Thrasher	1		1							
Brown-headed Cowbird		1	6	5	4	1			2	
Canada Goose	7	7	12	25	12			1		
Carolina Wren		2	2	3		1			3	
Cliff Swallow						11		85		12
Common Grackle						1	1	20		
Common Yellowthroat		1				6	5	2	5	3
Dickcissel								3	1	
Downy Woodpecker	1			2	1	1			1	2
Duck Sp	2									
Eastern Bluebird				1				5	1	
Eastern Kingbird		3						1		
Eastern Meadowlark	1					1	1			
Eastern Phoebe	1									
Eastern Towhee	1									
Eastern Tufted Titmouse	3	1		3		1	3	1	1	2
Eastern Wood-Pewee						1	1	1		1
European Starling	5	1	1		4	2				2
Field Sparrow	3			2	1	3		1	1	
Fish Crow		5	4	2				2	1	1
Gadwall			25							
Great Blue Heron	1		1			1	1	2	4	8
Great Crested Flycatcher						2	2	1	1	1
Greater White-fronted Goose				2						
Greater Yellowlegs	7		6	18						
Green Heron						2		2		
House Wren						2		1		

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Indigo Bunting						6	6	4	1	2
Kentucky Warbler		1								
Killdeer								2		
Lesser Yellowlegs	2			8						
Louisiana Waterthrush	1	2								
Mallard			14		2					
Marsh Wren		1								
Merlin		1								
Mourning Dove						1				
Northern Cardinal	3			1		2	4	1	1	1
Northern Flicker						2				
Northern Harrier		1	1							
Northern Parula	3	2				1	1	1		1
Northern Rough-winged Swallow	1						2			
Northern Shoveler			10							
Northern Waterthrush			1							
Owl Sp						1				
Pectoral Sandpiper	4		7							
Pied-billed Grebe	1		1							
Pileated Woodpecker	3	2	1		2	3		2	1	3
Prothonotary Warbler	2	4			1	4	1	2		1
Red-bellied Woodpecker		3		2	1	4	2	1	1	
Red-eyed Vireo		1					1			
Red-headed Woodpecker	7	1		2	1	2	4	1	3	1
Red-shouldered Hawk	1	2				1		2		
Red-tailed Hawk		1								
Ring-necked Duck			25							
Rose-breasted Grosbeak		1								
Ruby-crowned Kinglet	2									
Ruby-throated Hummingbird							1			
Sandpiper Sp		3								
Savannah Sparrow		6								
Song Sparrow	3		5		1					
Sora		4								
Sparrow Sp	3	3	1							
Swallow Sp									3	
Swamp Sparrow			3	5						
Tree Swallow	25	77		10	25			2		
Turkey Vulture	1	2	3		1	1				
Vesper Sparrow				1						
Warbling Vireo						2	1			
White-breasted Nuthatch		1				2		1		
White-throated Sparrow	1									

Species	Migration					Breeding Season				
	2016	2017	2018	2019	2021	2016	2017	2018	2019	2021
Wild Turkey						1				
Wilson's Snipe	2		1		13					
Wood Duck	6	2	3	2	2	63	16	6	23	6
Wren Sp			2							
Yellow Warbler	1									
Yellow-billed Cuckoo						2		1		
Yellow-crowned Night-Heron								1		
Yellow-rumped Warbler			1							
Yellow-throated Vireo						2				
Yellow-throated Warbler		1								
Grand Total	186	164	232	111	167	151	62	164	61	49



Photo: **Red-headed Woodpecker** by Tom Tucker

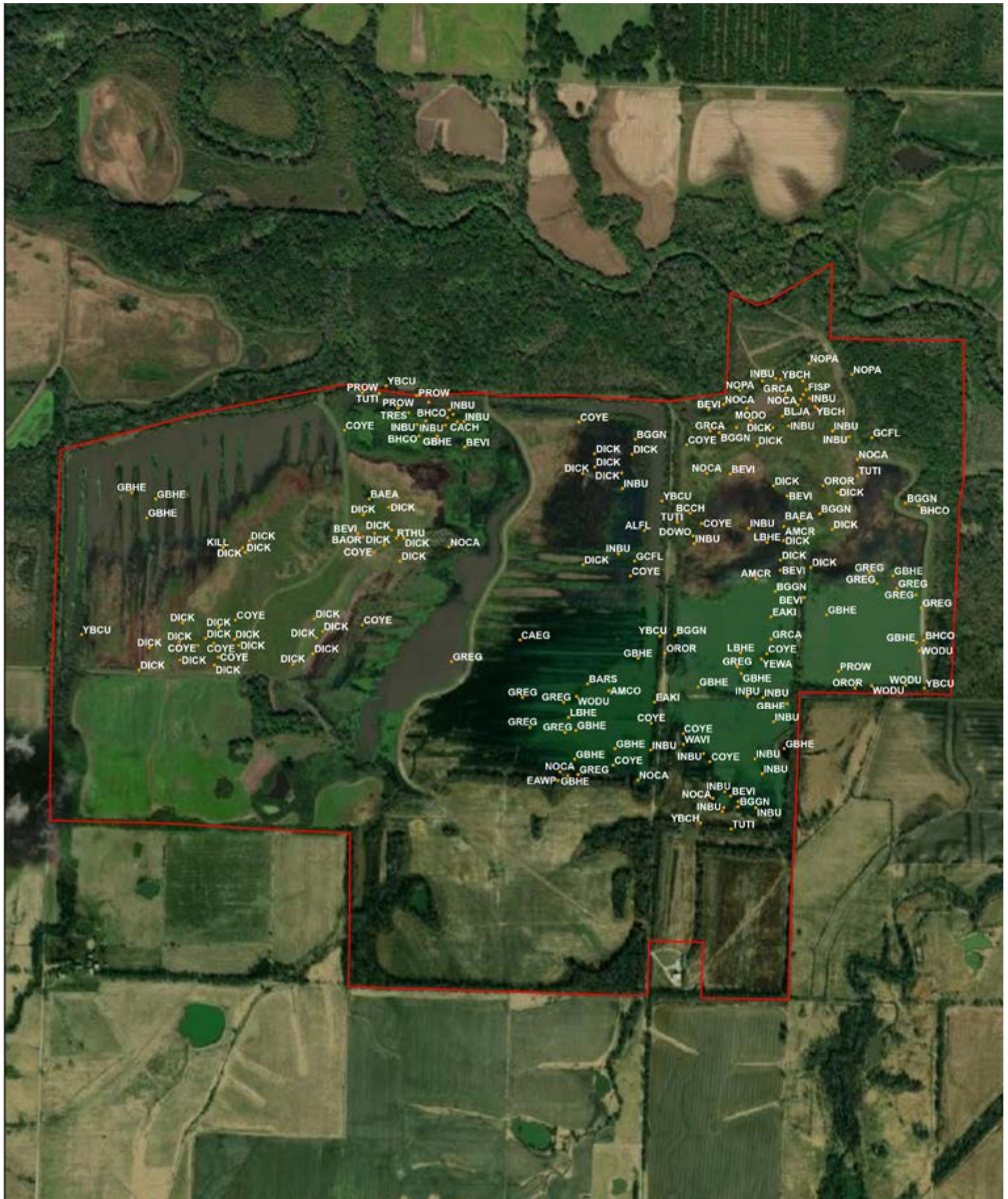


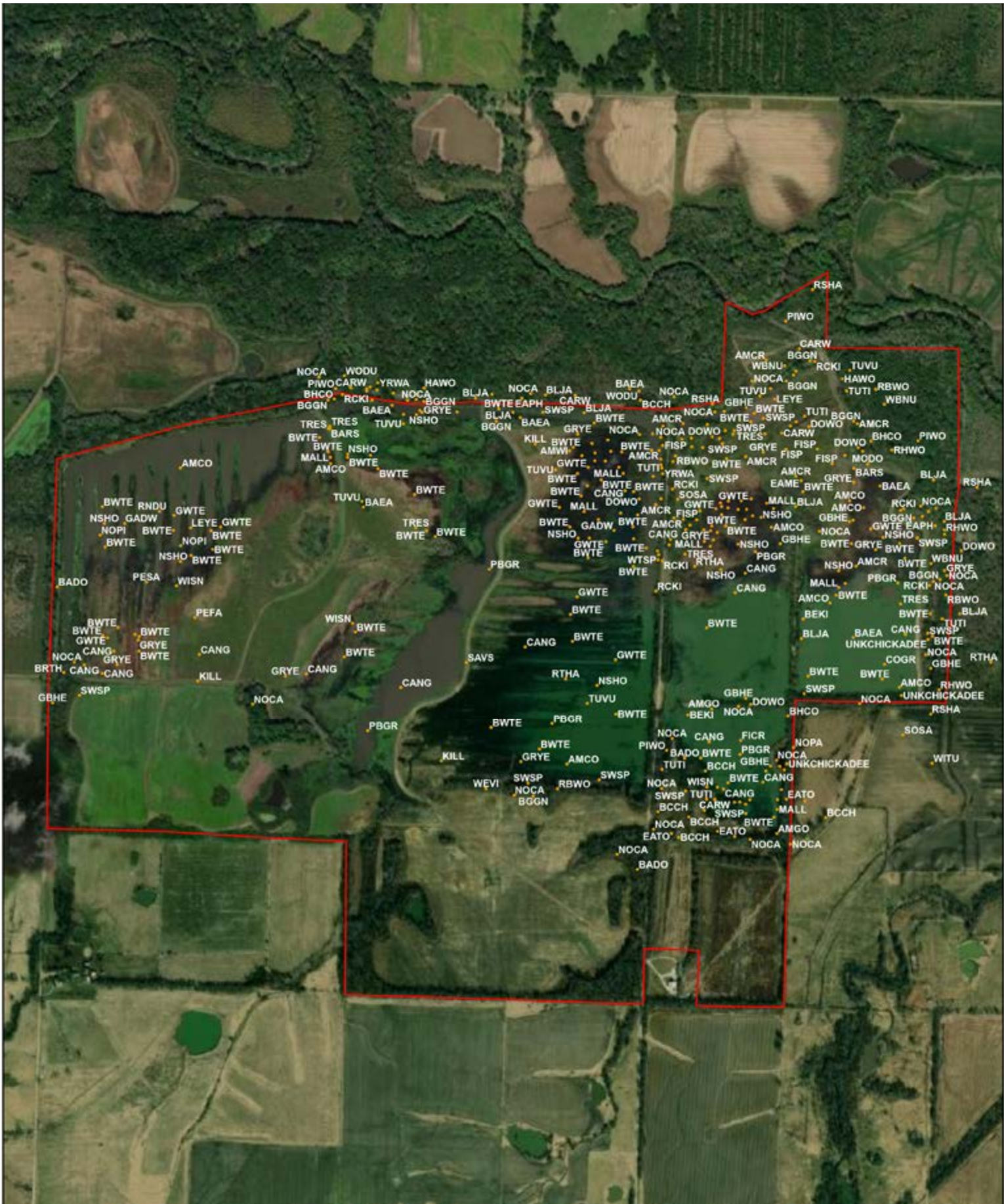


Species	Migration					Breeding Season			
	2015	2018	2019	2020	2021	2015	2018	2019	2021
Acadian Flycatcher							1		
Alder Flycatcher							1		1
American Bittern	3		4	1		1			
American Coot	204	160	23	457	130			1	2
American Crow		7	5	4	9	2	7	5	3
American Goldfinch	1	1	1	5	35	1		5	1
American Kestrel		1							
American Pipit		4	3	2					
American White Pelican	83	233	1	130				54	
American Wigeon				2	1				
Bald Eagle		4	4	4	10		1	1	3
Baltimore Oriole									1
Barn Swallow	17	3	2	17	2	2		7	1
Barred Owl	1	3	1	2	5		2	1	
Bell's Vireo						2	8	11	9
Belted Kingfisher	1	1		1	3				
Black-and-white Warbler								1	
Black-capped Chickadee			2	3	6	1	1		1
Black-crowned Night-Heron				5			1		
Blue Jay	1	4	5	5	9		1	1	3
Blue-gray Gnatcatcher			4	8	11	2	4	22	9
Blue-winged Teal	837	146	219	670	11164		2		
Brown Thrasher		3	2	1	3		3		
Brown-headed Cowbird	1	68	4	15	5	1	4	10	8
Canada Goose	21	19	12	15	46		64	7	
Carolina Chickadee		1		1		1			1
Carolina Wren	1	6	4	4	6	2	8	5	
Cattle Egret									2
Chickadee Sp		2			7			2	
Chipping Sparrow				2					
Cliff Swallow								2	
Common Gallinule		1							
Common Grackle					3		1	31	
Common Yellowthroat	3			3		14	17	22	18
Cooper's Hawk		1							
Crow Sp		1	1						
Dickcissel						23	59	27	38
Double-crested Cormorant	12	51	4	54					
Downy Woodpecker			4	1	8	1	2	1	1
Duck Sp		145					2	1	
Dunlin				3					
Eastern Bluebird	1								
Eastern Kingbird							5	1	2
Eastern Meadowlark	2	2	2	1	1	1	1		
Eastern Phoebe		2			2				

Species	Migration					Breeding Season			
	2015	2018	2019	2020	2021	2015	2018	2019	2021
Eastern Towhee					3				
Eastern Tufted Titmouse	1	5	4	5	7	2	7	4	4
Eastern Wood-Pewee						1	1	2	1
European Starling				1	3				
Field Sparrow		1	2	1	5		1		1
Fish Crow		3	1	4	1		3	1	
Gadwall		8	25	7	103				
Golden-crowned Kinglet		3							
Goose Sp				63					
Gray Catbird							4	2	5
Great Blue Heron	5	7	2	27	10	10	7	22	42
Great Crested Flycatcher						1	4	5	2
Great Egret		2		25		3	49	32	119
Greater White-fronted Goose	1								
Greater Yellowlegs	42	59	6	23	49		1		
Green Heron						2		3	
Green-winged Teal	9	61	33	108	404				
Hairy Woodpecker					2			1	
Hooded Merganser		2		6			1		
Horned Lark		1					1		
House Wren		1							
Indigo Bunting						8	14	44	24
Kentucky Warbler						1			
Killdeer		13	1		3	10	3	7	2
Least Sandpiper		1		3					
Lesser Scaup			6						
Lesser Yellowlegs	46	22		164	3				
Little Blue Heron									20
Magnolia Warbler								1	
Mallard	10	3	6	7	108				
Marsh Wren				7					
Mississippi Kite							1		
Mourning Dove		2		1	1			9	1
Northern Bobwhite								2	
Northern Cardinal	3	19	12	17	28	10	16	27	10
Northern Flicker		8	1				1		
Northern Harrier	1	2		2					
Northern Parula				1	1			1	3
Northern Pintail					8				
Northern Rough-winged Swallow				4					
Northern Shoveler	54	236	150	97	917				
Orchard Oriole						1	5	4	4
Pectoral Sandpiper		27		437	13				
Peregrine Falcon					1				
Pied-billed Grebe	4	4	4	16	6				
Pileated Woodpecker	10	1		1	4		1		
Prothonotary Warbler				2		6	5	14	4

Species	Migration					Breeding Season			
	2015	2018	2019	2020	2021	2015	2018	2019	2021
Red-bellied Woodpecker	1	5	5	2	8	1	6	5	
Red-eyed Vireo							2	1	
Red-headed Woodpecker		3		4	3		1		
Red-shouldered Hawk		3		1	4		2	2	
Red-tailed Hawk		1	1		3				
Ring-necked Duck					3				
Ruby-crowned Kinglet		2		2	12				
Ruby-throated Hummingbird							1		1
Rusty Blackbird		71							
Sandpiper Sp		8		240					
Savannah Sparrow		24	8	8	1				
Scissor-tailed Flycatcher							1		
Sedge Wren	1			1					
Semipalmated Plover				12					
Semipalmated Sandpiper		11		2					
Solitary Sandpiper		1			2				
Song Sparrow	1	5	1	4					
Sora	2			9					
Sparrow Sp			3	3					
Spotted Sandpiper							1		
Summer Tanager								3	
Swamp Sparrow	4	24	7	40	19				
Tree Swallow	100	19	13	275	27	5	2	5	1
Turkey Vulture	6	2	6	3	7		1	3	
Virginia Rail				3					
Warbling Vireo						1			1
White-breasted Nuthatch					4		1	1	
White-eyed Vireo					1	1		4	
White-rumped Sandpiper		3							
White-throated Sparrow		3	2	15	3				
Wild Turkey		3	1	3	1	1	4		
Wilson's Snipe	1	37	1	8	9				
Wood Duck		18	4	4	11	26	3	34	4
Woodpecker Sp						2	1		
Yellow Warbler									1
Yellow-billed Cuckoo							8	5	5
Yellow-breasted Chat						1	3	3	3
Yellow-crowned Night-Heron		1						4	
Yellow-rumped Warbler		4	1	25	2				
Yellow-throated Vireo								2	
Grand Total	1491	1608	613	3109	13266	147	357	471	362





Species	Migration				Breeding Season		
	2018	2019	2020	2021	2018	2019	2021
American Coot				20			
American Crow	1	5			4	4	
American Pipit		1					
Bald Eagle	1	1	1		1	2	1
Barn Swallow			1				1
Barred Owl					2		
Belted Kingfisher			1	1			
Black-capped Chickadee		1					
Blue-gray Gnatcatcher			1		1	1	2
Blue-winged Teal	96	47	90	34			
Brown-headed Cowbird		1			1	1	1
Canada Goose	7	13	10	27	1		
Carolina Chickadee				1			
Carolina Wren		1					
Chickadee Sp		2					
Common Grackle				40			
Common Merganser	2						
Common Nighthawk					1		
Common Yellowthroat					7	5	1
Dickcissel					7		4
Double-crested Cormorant		21	12				
Dowitcher Sp	11						
Duck Sp	30						
Dunlin	3						
Eastern Bluebird	1	1	5				
Eastern Kingbird						1	1
Eastern Phoebe		1					
Eastern Tufted Titmouse			1		2		
Fish Crow			4		1		
Gadwall	2	2		1			
Great Blue Heron	4	2	1	5	1		2
Great Crested Flycatcher					2		
Great Egret	1		5		11	1	2
Great Horned Owl		1					
Greater White-fronted Goose				1			
Greater Yellowlegs	13			6			
Green-winged Teal	22		4	15			
Hudsonian Godwit			4				
Indigo Bunting						1	2
Killdeer	2	1	2				1
Least Bittern							1
Lesser Scaup			2				
Lesser Yellowlegs	2	1	9				

Species	Migration				Breeding Season		
	2018	2019	2020	2021	2018	2019	2021
Mallard	3			1			
Mississippi Kite						2	
Mourning Dove					1		
Northern Cardinal	2		1	1	3	1	
Northern Pintail	1	2	2				
Northern Rough-winged Swallow			5				
Northern Shoveler	43	42	16	2			
Pectoral Sandpiper	4	1	11				
Pied-billed Grebe		1	6	2			
Pileated Woodpecker					1		
Purple Martin						1	
Raptor Sp	1						
Red-bellied Woodpecker	1				1		
Red-shouldered Hawk	1				1		
Ring-billed Gull				3			
Ruby-crowned Kinglet	1						
Rusty Blackbird	50						
Savannah Sparrow			6				
Solitary Sandpiper		2					
Song Sparrow	2	3		2			
Swamp Sparrow	7	7	6	4			
Tree Swallow			13	1			
Turkey Vulture						2	
White-faced Ibis			1				1
Wild Turkey			1		1		
Wilson's Snipe	27	13					
Wood Duck					1		1
Yellow Rail			2				
Yellow-billed Cuckoo					1		
Yellow-rumped Warbler			6				
Grand Total	341	173	229	167	52	22	21



Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Acadian Flycatcher				1	
Alder Flycatcher				1	3
American Bittern	1	4	2		
American Coot	7	52	137		
American Crow	4	3	3	1	3
American Goldfinch	1	5	36	3	4
American Kestrel			1		
American Pipit	1				
American Robin	1		2		
Bald Eagle	2	1	1	1	2
Barn Swallow					4
Barred Owl	5	3	6		
Bell's Vireo				3	2
Belted Kingfisher		1	1		
Black-capped Chickadee	1	1	17	1	2
Blue Jay	6	9	14		
Blue-gray Gnatcatcher	4	6	5	6	12
Blue-winged Teal	31	197	86		
Brown Thrasher	6	3	5		
Brown-headed Cowbird	9	13	9	7	4
Cackling Goose			2		
Canada Goose	4	5	50		15
Carolina Wren	4	7	5	5	
Cattle Egret					1
Cedar Waxwing					2
Chickadee Sp	1		3		
Chipping Sparrow	2		1	1	
Common Grackle				1	
Common Nighthawk					2
Common Yellowthroat				25	25
Cooper's Hawk	1				
Crow Sp					2
Dickcissel				18	8
Double-crested Cormorant	14	1			
Downy Woodpecker	3	1	6	3	1
Eastern Bluebird	5	2		1	
Eastern Kingbird				4	3
Eastern Meadowlark	6	2	1		1
Eastern Phoebe	3		9		
Eastern Towhee					1
Eastern Tufted Titmouse	6	8	6		6
Eastern Wood-Pewee				1	
Field Sparrow	9	1	15	4	2
Fish Crow	3	14	11	3	1

Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Gadwall			1		
Gray Catbird				2	1
Great Blue Heron	2	7	4	2	8
Great Crested Flycatcher				1	3
Great Egret		4	5	6	13
Great Horned Owl	1				
Greater Yellowlegs	1	1			
Green Heron			2		
Green-winged Teal		6	3		
Hairy Woodpecker		1			1
Henslow's Sparrow	4		2		
Hooded Merganser	2	2			
Indigo Bunting			1	21	27
Killdeer			2		2
King Rail		1			
Lesser Yellowlegs	1	3	1		
Lincoln's Sparrow			2		
Louisiana Waterthrush	1				
Mallard		3	9		
Marsh Wren	1	3			
Mourning Dove	3		2		1
Northern Bobwhite	3	6	4	5	3
Northern Cardinal	26	17	27	15	11
Northern Flicker	3				
Northern Mockingbird			1		
Northern Parula		1	3		2
Northern Rough-winged Swallow			5		
Northern Shoveler	17	19	11		
Orchard Oriole					2
Pectoral Sandpiper		2			
Peregrine Falcon		1			
Pied-billed Grebe	4	5	7		
Pileated Woodpecker	1	1	3	1	
Pine Siskin					1
Prothonotary Warbler		3	1	6	3
Red-bellied Woodpecker		5	5	1	
Red-eyed Vireo					4
Red-headed Woodpecker	3	5	1		
Red-shouldered Hawk	2	1	1		
Red-tailed Hawk		1	1		
Ring-necked Duck	3				
Ruby-crowned Kinglet	2	6	32		
Ruby-throated Hummingbird					3
Savannah Sparrow		5	1		

Species	Migration			Breeding Season	
	2019	2020	2021	2019	2021
Sedge Wren		4			
Solitary Sandpiper	1	2			
Song Sparrow	9	5			
Sora		5			
Sparrow Sp	3	2	1		
Summer Tanager					1
Swamp Sparrow	31	57	24		
Tree Swallow			70		
Turkey Vulture		3			
Virginia Rail		1			
Warbling Vireo					1
White-breasted Nuthatch		1	2		
White-crowned Sparrow		4	1		
White-eyed Vireo			1	1	3
White-throated Sparrow	6	36			
Wild Turkey	4	6	3		
Willow Flycatcher					1
Wilson's Snipe		1	3		
Wood Duck	8	9	8	3	3
Woodpecker Sp	2		4		
Yellow Warbler					2
Yellow-billed Cuckoo				4	5
Yellow-breasted Chat				7	5
Yellow-rumped Warbler	2	15	23		
Grand Total	286	599	711	165	212



Photo: **Blue Jay** by Buddy Woods Jr.





BIRD SPECIES NAME CODES FOR USE WITH SITE MAPS

Code	Species Name	Code	Species Name	Code	Species Name
ACFL	Acadian Flycatcher	BBWD	Black-bellied Whistling Duck	EABL	Eastern Bluebird
ALFL	Alder Flycatcher	BCCH	Black-capped Chickadee	EAKI	Eastern Kingbird
AMAV	American Avocet	BCNH	Black-crowned Night-Heron	EAME	Eastern Meadowlark
AMBI	American Bittern	BNST	Black-necked Stilt	EAPH	Eastern Phoebe
AMCO	American Coot	BTNW	Black-throated Green Warber	EASO	Eastern Screech-Owl
AMCR	American Crow	BLPW	Blackpoll Warbler	EATO	Eastern Towhee
AMGP	American Golden-Plover	BLGR	Blue Grosbeak	EWPW	Eastern Whip-poor-will
AMGO	American Goldfinch	BLJA	Blue Jay	EAWP	Eastern Wood-Pewee
AMKE	American Kestrel	BGGN	Blue-gray Gnatcatcher	EUCD	Eurasian Collared-Dove
AMPI	American Pipit	BHVI	Blue-headed Vireo	EUST	European Starling
AMRE	American Redstart	BWTE	Blue-winged Teal	EVGR	Evening Grosbeak
AMRO	American Robin	BWWA	Blue-winged Warbler	FISP	Field Sparrow
ATSP	American Tree Sparrow	BOBO	Bobolink	FICR	Fish Crow
AWPE	American White Pelican	BOGU	Bonaparte's Gull	FOTE	Forster's Tern
AMWI	American Wigeon	BWHA	Broad-winged Hawk	FOSP	Fox Sparrow
AMWO	American Woodcock	BRCR	Brown Creeper	FRGU	Franklin's Gull
BASA	Baird's Sandpiper	BRTH	Brown Thrasher	GADW	Gadwall
BAEA	Bald Eagle	BHCO	Brown-headed Cowbird	GCKI	Golden-crowned Kinglet
BAOR	Baltimore Oriole	BUFF	Bufflehead	GWWA	Golden-winged Warbler
BANS	Bank Swallow	CAGO	Cackling Goose	GRSP	Grasshopper Sparrow
BANO	Barn Owl	CANG	Canada Goose	GRCA	Gray Catbird
BARS	Barn Swallow	CAWA	Canada Warbler	GCTH	Gray-cheeked Thrush
BADO	Barred Owl	CACH	Carolina Chickadee	GBHE	Great Blue Heron
BEVI	Bell's Vireo	CARW	Carolina Wren	GCFL	Great Crested Flycatcher
BEKI	Belted Kingfisher	CATE	Caspian Tern	GREG	Great Egret
BLTE	Black Tern	CAEG	Cattle Egret	GHOW	Great Horned Owl
BLVU	Black Vulture	CEDW	Cedar Waxwing	GTGR	Great-tailed Grackle
BAWW	Black-and-white Warbler	CITE	Cinnamon Teal	GWFG	Greater White-fronted Goose
BBPL	Black-bellied Plover	CSWA	Chestnut-sided Warbler	GRYE	Greater Yellowlegs
BBCU	Black-billed Cuckoo	CHSW	Chimney Swift	GRHE	Green Heron
		CHSP	Chipping Sparrow	GWTE	Green-winged Teal
		CCSP	Clay-colored Sparrow	HAWO	Hairy Woodpecker
		CLSW	Cliff Swallow	HESP	Henslow's Sparrow
		COGA	Common Gallinule	HETH	Hermit Thrush
		COGR	Common Grackle	HOME	Hooded Merganser
		COME	Common Merganser	HOLA	Horned Lark
		CONI	Common Nighthawk	HOFI	House Finch
		COYE	Common Yellowthroat	HOWR	House Wren
		COHA	Cooper's Hawk	HUGO	Hudsonian Godwit
		DEJU	Dark-eyed Junco	INBU	Indigo Bunting
		DICK	Dickcissel	KEWA	Kentucky Warbler
		DCCO	Double-crested Cormorant	KILL	Killdeer
		DOWO	Downy Woodpecker	KIRA	King Rail
		DUNL	Dunlin	LASP	Lark Sparrow
				LEBI	Least Bittern



Photo: **Bobolink** by Paul Moffett

Code	Species Name	Code	Species Name	Code	Species Name
LEFL	Least Flycatcher	REDH	Redhead	WEVI	White-eyed Vireo
LESA	Least Sandpiper	RBGU	Ring-billed Gull	WRSA	White-rumped Sandpiper
LETE	Least Tern	RNDU	Ring-necked Duck	WTSP	White-throated Sparrow
LCSP	LeConte's Sparrow	RNPH	Ring-necked Pheasant	WITU	Wild Turkey
LESC	Lesser Scaup	ROPI	Rock Pigeon	WILL	Willet
LEYE	Lesser Yellowlegs	RBGR	Rose-breasted Grosbeak	WIFL	Willow Flycatcher
LISP	Lincoln's Sparrow	ROGO	Ross's Goose	WIPH	Wilson's Phalarope
LBHE	Little Blue Heron	RCKI	Ruby-crowned Kinglet	WISN	Wilson's Snipe
LOSH	Loggerhead Shrike	RTHU	Ruby-throated Hummingbird	WIWA	Wilson's Warbler
LBDO	Long-billed Dowitcher	RUDU	Ruddy Duck	WODU	Wood Duck
LOWA	Louisiana Waterthrush	RUBL	Rusty Blackbird	WOTH	Wood Thrush
MALL	Mallard	SACR	Sandhill Crane	YERA	Yellow Rail
MAWR	Marsh Wren	SAVS	Savannah Sparrow	YEWA	Yellow Warbler
MERL	Merlin	SCTA	Scarlet Tanager	YBFL	Yellow-bellied Flycatcher
MIKI	Mississippi Kite	SCTA	Scissor-tailed Flycatcher	YBSA	Yellow-bellied Sapsucker
MODO	Mourning Dove	SEWR	Sedge Wren	YBCU	Yellow-billed Cuckoo
NAWA	Nashville Warbler	SEPL	Semipalmated Plover	YBCH	Yellow-breasted Chat
NESP	Nelson's Sparrow	SESA	Semipalmated Sandpiper	YCNH	Yellow-crowned Night-Heron
NOBO	Northern Bobwhite	SSHA	Sharp-shinned Hawk	YHBL	Yellow-headed Blackbird
NOCA	Northern Cardinal	SBDO	Short-billed Dowitcher	YRWA	Yellow-rumped Warbler
NOFL	Northern Flicker	SEOW	Short-eared Owl	YTVI	Yellow-throated Vireo
NOHA	Northern Harrier	SCJU	Slate-colored Junco	YTWA	Yellow-throated Warbler
NOMO	Northern Mockingbird	SNGO	Snow Goose	<p>If a bird is identified to family but not species, you will see "Sp" in your bird list; for example, Duck Sp. or Woodpecker Sp. In each map, this is represented by the letters "UNK" followed by the family it was identified belonging to. For example, UNKDUCK equals Duck Sp.</p> <p>A full list of all North American species and their codes can be found at: https://www.birdpop.org/docs/misc/Alpha_codes_eng.pdf</p>	
NOPA	Northern Parula	SNEG	Snowy Egret		
NOPI	Northern Pintail	SOSA	Solitary Sandpiper		
NRWS	Northern Rough-winged Swallow	SOSP	Song Sparrow		
NSHO	Northern Shoveler	SORA	Sora		
NOWA	Northern Waterthrush	SPSA	Spotted Sandpiper		
OCWA	Orange-crowned Warbler	STSA	Stilt Sandpiper		
OROR	Orchard Oriole	SUTA	Summer Tanager		
OSPR	Osprey	SWTH	Swainson's Thrush		
OVEN	Ovenbird	SWSP	Swamp Sparrow		
PESA	Pectoral Sandpiper	TEWA	Tennessee Warbler		
PEFA	Peregrine Falcon	TRES	Tree Swallow		
PBGR	Pied-billed Grebe	TRSW	Trumpeter Swan		
PIWO	Pileated Woodpecker	TUTI	Tufted Titmouse		
PROW	Prothonotary Warbler	TUVU	Turkey Vulture		
PUFI	Purple Finch	UPSA	Upland Sandpiper		
PUMA	Purple Martin	VEER	Veery		
RBWO	Red-bellied Woodpecker	VESP	Vesper Sparrow		
RBME	Red-breasted Merganser	VIRA	Virginia Rail		
REVI	Red-eyed Vireo	WAVI	Warbling Vireo		
RHWO	Red-headed Woodpecker	WEME	Western Meadowlark	<p>Photo: Eastern Meadowlark by MRBO staff</p>	
RSHA	Red-shouldered Hawk	WPWA	Western Palm Warbler		
RTHA	Red-tailed Hawk	WESA	Western Sandpiper		
RWBL	Red-winged Blackbird	WBNU	White-breasted Nuthatch		
		WCSP	White-crowned Sparrow		



P. O. Box 16
Arrow Rock, Missouri
65320

NONPROFIT
MARKETING MAIL
U.S. POSTAGE PAID
PI 17
MARSHALL MO
65340

TO: