

**Results of the 2009 Avian Monitoring Surveys Conducted at the Morris Wetland
Mitigation Bank Site, Grundy County, Illinois**

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Introduction

On 29 March 1999, the Illinois Department of Transportation (IDOT) requested that we monitor the breeding season avian fauna within the Morris Wetland Banking Site near Morris in Grundy County (Figure 1). We were asked to perform a Level 2 Wildlife Assessment as described in the Illinois Wetland Restoration and Creation Guide (Admiraal et al. 1997). Breeding season censuses at the banking site were conducted for three consecutive years. We were instructed to discontinue surveys in 2001. Memoranda detailing the results of the three breeding season surveys completed (1999, 2000 and 2001) have been forwarded to IDOT.

In May of 2007 we were instructed to resume avian breeding season surveys at this site and to expand census coverage to the spring and fall migration seasons for three years. At the time of the request the spring migration season had already passed, therefore, the 2007 report forwarded to IDOT contained only breeding and fall migration season survey results. We were also tasked to monitor a newly established heron rookery located in the southwest quadrant of the property (Figure 1). This report contains the results of the completed three season surveys conducted in 2009, the third and final year of coverage.

Project Area

The Morris Wetland Banking Site is located in Grundy County just south of Morris (Figure 1). It is bounded on the north by the Illinois River, to the west by IL 47, on the south by Pine Bluff Road and to the east by various private and county owned properties, and is approximately 365 ha in area. The legal location of the project area is: ILLINOIS, Grundy County. 3rd Principal Meridian: Township 33 North, Range 7 East, portions of Sections 2, 3, 10, and 11.

Approximately 60% of the property is comprised of old fields that have developed into grass/forblands or have been planted with a variety of wetland tree species. Portions of the Mazon River and Mud Slough meander through the site. These two water courses are bordered by strips of riparian forest that cover approximately 20% of the site. An additional 10% of the area is composed of shrub/forbland that borders a section of Mud Slough. The remaining 10% of the site is covered by open water.

Methods

Twenty-two census points were established in the Morris Wetland Banking Site in all major cover types during 1999 (Figure 1 and Table 1). One additional point was established in 2000 within a proposed wetland creation site (Point 23). These points, with the exception of census point 13 to which access was blocked by flood debris throughout 2008 were used in the 2008 censuses. All census point locations are identified on a set of aerial photographs and on figure 1.

We sub-sampled non-linear (i.e. at least 50 m in narrowest dimension) habitat parcels using point counts (Manley et al. 1993; Ralph et al. 1993). We recorded all individual birds seen or heard within a range of 75 meters (including birds seen flying over) during 10-minute count periods. These timed counts provide measures of the structure of bird communities (number of individuals and number of species) within the various habitat types. Birds detected outside the habitat type during a point count were included in the species list for the project (Table 2), but not in the census list for that point (Tables 3, 5 and 7). We also recorded all birds seen or heard within the project area outside of the 10-minute count periods. These sightings are also included in our species list for the project area (Table 2).

Results

One hundred seven species representing 38 families have been observed at the Morris Wetland Banking Site since avian surveys were initiated in 1999 (Table 2). Of these, 83 species, including one new species the Sedge Wren, were observed at the Morris site during the 2009 visits.

Only Great Blue Herons were observed entering or leaving the vicinity of the heron rookery located near census point 6 (Figure 1). In order not to disturb the nesting herons, we remained at least 100 m away from the rookery during the breeding season. Approximately 74 nests (up from 70 in 2008), built in two large and a number of smaller Sycamore trees (*Plantanus occidentalis*) situated within 50 m of each other on both sides of the Mazon River, were counted during the final 2009 fall migration visit (Figure 1).

Spring Migration Season

Two attempts were made to conduct the spring migration season censuses of the site in 2009. Rain, flooding and flood debris hindered access to the site for most of the spring migration season. We were able to access the site on 11 March, however many census points were still inaccessible due to road blockage by flood debris, therefore, only one partial census was completed during the spring migration season. One hundred nine individuals representing 12 species were recorded within 75 m of census points during our timed (Table 3). A total of 16 species were observed during all 2009 spring season visits to the site censuses including one Illinois endangered species, the Northern Harrier, and one Illinois threatened species, the Bald Eagle (Table 4).

Breeding Season

Breeding censuses were conducted on 24 June and 30 July 2009. One hundred one individuals representing 24 species were recorded within 75 m of census points during our timed censuses (Table 5). Three additional species were recorded beyond the 75 m count threshold during censuses or while moving between census points bringing the total number of species observed during the 2009 breeding season at the Morris Wetland Banking Site to 50 (Table 6). No Federal or Illinois listed species were detected during any breeding season visits to the site in 2008.

Fall Migration Season

Fall migration season censuses were conducted 22 October and 24 November 2009. Fifty nine individuals representing 14 species were recorded within 75 m of census points during our timed censuses (Table 7). Eighteen species were recorded during all 2009 fall migration season visits to the site (Table 8). No Federally or Illinois listed species were observed.

Discussion

One hundred six species representing 38 families have been observed at the Morris Wetland Banking Site since avian surveys were initiated in 1999 (Table 2). Of these, 84 species, including 1 new species, the Sedge Wren, were observed at the Morris site during the 2009 visits. One Illinois endangered species, the Northern Harrier and one Illinois threatened species, the Bald Eagle, were observed at the Morris Wetland site during the spring or fall migration period.

The Great Blue Heron rookery located near census point 6 increased to approximately 74 nests in 2009 (55 in 2007).

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Table 1. Description of habitat surrounding census points established in the Morris Wetland Banking Site, Grundy County, Illinois.

Census Point	Habitat Description	Legal Location
1	Floodplain Terrace Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, SE/4, SW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,790mN 381,810mE
2	Old field	Grundy Co., IL; T 33 N, R 7E; Section 10, SE/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,775mN 381,430mE
3	Floodplain Terrace Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SW/4, SE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,900mN 382,100mE
4	Floodplain Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, NW/4, SW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,990mN 381,190mE
5	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 10, NW/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,010mN 381,460mE
6	Floodplain Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,000mN 381,720mE

Table 1 continued on following page.

Table 1. Description of habitat surrounding census points (Continued).

Census Point	Habitat Description	Legal Location
7	Floodplain Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, SW/4, NW/4, SE/4; Morris, IL 7.5' series USGS topographic quadrangle map.
8	Floodplain Forest / Backwater Pond	UTM Zone 16 4,578,150mN 381,900mE Grundy Co., IL; T 33 N, R 7E; Section 10, SE/4, NE/4, SE/4; Morris, IL 7.5' series USGS topographic quadrangle map.
9	Floodplain Forest	UTM Zone 16 4,578,200mN 383,510mE Grundy Co., IL; T 33 N, R 7E; Section 11, SW/4, NW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
10	Floodplain Forest / Backwater Pond	UTM Zone 16 4,578,260mN 383,860mE Grundy Co., IL; T 33 N, R 7E; Section 11, NW/4, NE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
11	Old Field Tree Planting	UTM Zone 16 4,578,340mN 383,120mE Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, NW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
12	Old Field	UTM Zone 16 4,578,400mN 381,320mE Grundy Co., IL; T 33 N, R 7E; Section 10, SW/4, SE/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map.
		UTM Zone 16 4,578,580mN 382,420mE

Table 1 continued on following page.

Table 1. Description of habitat surrounding census points (Concluded).

Census Point	Habitat Description	Legal Location
13	Old Field	Grundy Co., IL; T 33 N, R 7E; Section 10, NW/4, SE/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
14	Shrubland	UTM Zone 16 4,578,660mN 381,500mE Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SW/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,690mN 382,210mE
15	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 11, NE/4, SW/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,730mN 382,960mE
16	Shrubland	Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SE/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,850mN 382,500mE
17	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 11, NE/4, SE/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,800mN 383,450mE
18	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 11, NE/4, SW/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,800mN 383,820mE

Table 1 continued on following page.

Table 1. Description of habitat surrounding census points (Concluded).

Census Point	Habitat Description	Legal Location
19	Floodplain Forest	Grundy Co., IL; T 33 N, R 7E; Section 11, SW/4, NW/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,579,100mN 382,710mE
20	Floodplain Terrace Forest	Grundy Co., IL; T 33 N, R 7E; Section 11, SW/4, NE/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,579,100mN 383,240mE
21	Old Field	Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, NE/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,579,130mN 382,600mE
22	Old Field	Grundy Co., IL; T 33 N, R 7E; Section 2, SW/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,579,390mN 383,250mE
23	Old Field	Grundy Co., IL; T 33 N, R 7E; Section 10, SW/4, SW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,750mN 381,150mE

Table 2. Cumulative list of bird species observed during all years of monitoring visits conducted at the Morris Wetland Banking study site, Grundy County, Illinois.

Nomenclature and taxonomic order from American Ornithologists' Union 2000 and Banks et al 2002, 2003, 2004, 2006 and 2007. Status from Illinois Endangered Species Protection Board 2006. Illinois occurrence and breeding status from Bohlen, H.D. 1989, Goetz 1989 and 1990, Goetz and Robinson 1988, Goetz and Stotz 1999, Johnson, D.B., P.R. Clyne and M.F. Deaton 1998, Johnson, D. B. and D. F. Stotz 2005, Kleen, Cordle and Montgomery 2004, Stotz, D.F. 2001, Stotz, D.F. and D.B. Johnson 2002, 2003 and 2004 and Williamson, C. 2002.

<u>Family</u>
Subfamily
<i>Scientific name</i> - Common Name
Family Anatidae
Sub-family Anserinae
Branta canadensis - Canada Goose *
Sub-family Anatinae
Aix sponsa - Wood Duck *
Anas platyrhynchos - Mallard *
Anas crecca – Green-winged Teal *
Family Phasianidae
Sub-family Meleagridinae
Meleagris gallopavo - Wild Turkey X, but reintroduced *
Family Pelecanidae
Pelecanus erythrorhynchos – American White Pelican
Family Phalacrocoracidae
Phalacrocorax auritus - Double-crested Cormorant *
Family Ardeidae
Ardea herodias - Great Blue Heron *
Ardea alba - Great Egret

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>
Subfamily
<i>Scientific name</i> - Common Name
Family Cathartidae
Cathartes aura - Turkey Vulture *
Family Accipitridae
Sub-family Accipitrinae
Haliaeetus leucocephalus - Bald Eagle ST FT*
Accipiter cooperii - Cooper's Hawk *
Buteo platypterus - Broad-winged Hawk *
Buteo jamaicensis - Red-tailed Hawk *
Circus cyaneus – Northern Harrier SE *
Family Gruidae
Grus Canadensis – Sandhill Crane ST *
Family Charadriidae
Charadrius vociferous – Killdeer
Family Laridae
Sub-family Larinae
Larus argentatus - Herring Gull *
Family Columbidae
Columba livia - Rock Pigeon *
Zenaida macroura - Mourning Dove *
Family Cuculidae
Sub-family Coccyzinae
Coccyzus americanus - Yellow-billed Cuckoo *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
Family Strigidae		Megascops asio - Eastern Screech-owl *
		Strix varia - Barred Owl *
Family Apodidae		
	Sub-family Chaeturinae	Chaetura pelagica - Chimney Swift *
Family Trochilidae		
	Sub-family Trochilinae	Archilochus colubris - Ruby-throated Hummingbird *
Family Alcedinidae		
	Sub-family Cerylinae	Megaceryle alcyon - Belted Kingfisher *
Family Picidae		
	Sub-family Picinae	Melanerpes erythrocephalus - Red-headed Woodpecker *
		Melanerpes carolinus - Red-bellied Woodpecker *
		Picoides pubescens - Downy Woodpecker *
		Picoides villosus - Hairy Woodpecker *
		Colaptes auratus - Northern Flicker *
		Dryocopus pileatus - Pileated Woodpecker *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>
Subfamily
<i>Scientific name</i> - Common Name
Family Tyrannidae
Sub-family Fluvicolinae
Contopus virens - Eastern Wood-pewee *
Empidonax virescens - Acadian Flycatcher *
Empidonax minimus - Least Flycatcher *
Sayornis phoebe - Eastern Phoebe *
Sub-family Tyranninae
Myiarchus crinitus - Great Crested Flycatcher *
Tyrannus tyrannus - Eastern Kingbird *
Family Vireonidae
Vireo flavifrons - Yellow-throated Vireo *
Vireo gilvus - Warbling Vireo *
Vireo olivaceus - Red-eyed Vireo *
Family Corvidae
Cyanocitta cristata - Blue Jay *
Corvus brachyrhynchos - American Crow *
Family Hirundinidae
Sub-family Hirundininae
Progne subis - Purple Martin *
Tachycineta bicolor - Tree Swallow *
Stelgidopteryx serripennis - Northern Rough-winged Swallow *
Petrochelidon pyrrhonota - Cliff Swallow *
Hirundo rustica - Barn Swallow *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>
Subfamily
<i>Scientific name</i> - Common Name
Family Paridae
<i>Poecile atricapillus</i> - Black-capped Chickadee *
<i>Baeolophus bicolor</i> - Tufted Titmouse *
Family Sittidae
Sub-family Sittinae
<i>Sitta carolinensis</i> - White-breasted Nuthatch *
Family Certhiidae
<i>Certhia americana</i> - Brown Creeper *
Family Troglodytidae
<i>Thryothorus ludovicianus</i> - Carolina Wren *
<i>Troglodytes aedon</i> - House Wren *
<i>Cistothorus platensis</i> – Sedge Wren
Family Regulidae
<i>Regulus satrapa</i> - Golden-crowned Kinglet
<i>Regulus calendula</i> – Ruby-crowned Kinglet
Family Sylviidae
Sub-family Polioptilinae
<i>Polioptila caerulea</i> - Blue-gray Gnatcatcher *
Family Turdidae
<i>Sialia sialis</i> - Eastern Bluebird *
<i>Catharus ustulatus</i> - Swainson's Thrush
<i>Hylocichla mustelina</i> - Wood Thrush *
<i>Turdus migratorius</i> - American Robin *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
Family Mimidae		Dumetella carolinensis - Gray Catbird *
		Toxostoma rufum – Brown Thrasher *
Family Sturnidae		Sturnus vulgaris - European Starling I *
Family Bombycillidae		Bombycilla cedrorum - Cedar Waxwing *
Family Parulidae		Vermivora peregrina - Tennessee Warbler
		Vermivora celata – Orange-crowned Warbler
		Dendroica petechia - Yellow Warbler *
		Parula Americana – Northern Parula *
		Dendroica pensylvanica - Chestnut-sided Warbler *
		Dendroica magnolia - Magnolia Warbler
		Dendroica coronata – Yellow-rumped Warbler
		Dendroica virens - Black-throated Green Warbler *
		Dendroica palmarum - Palm Warbler
		Dendroica striata - Blackpoll Warbler
		Setophaga ruticilla - American Redstart *
		Helmitheros vermivorum - Worm-eating Warbler *
		Seiurus aurocapilla - Ovenbird *
		Geothlypis trichas - Common Yellowthroat *
		Icteria virens - Yellow-breasted Chat *
Family Thraupidae		Piranga olivacea - Scarlet Tanager *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
Family Emberizidae		
		Pipilo erythrophthalmus - Eastern Towhee *
		Spizella arborea – American Tree Sparrow
		Spizella pusilla - Field Sparrow *
		Poocetes gramineus - Vesper Sparrow *
		Passerculus sandwichensis - Savannah Sparrow *
		Ammodramus savannarum - Grasshopper Sparrow *
		Melospiza melodia - Song Sparrow *
		Melospiza Georgiana – Swamp Sparrow
		Zonotrichia albicollis - White-throated Sparrow *
		Zonotrichia leucoollis – White-crowned Sparrow
		Junco hyemalis – Dark-eyed Junco
Family Cardinalidae		
		Cardinalis cardinalis - Northern Cardinal *
		Phœucticus ludovicianus - Rose-breasted Grosbeak *
		Passerina cyanea - Indigo Bunting *
		Spiza americana - Dickcissel *
Family Icteridae		
		Dolichonyx oryzivorus - Bobolink WL *
		Agelaius phoeniceus - Red-winged Blackbird *
		Sturnella magna - Eastern Meadowlark *
		Euphagus carolinus – Rusty blackbird
		Quiscalus quiscula - Common Grackle *
		Molothrus ater - Brown-headed Cowbird *
		Icterus galbula - Baltimore Oriole *

Table 2. concluded on following page.

Table 2. Cumulative list of bird species (concluded)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
Family Fringillidae		
	Sub-family Carduelinae	
		Carpodacus mexicanus - House Finch I *
		Carduelis tristis - American Goldfinch *
Family Passeridae		
		Passer domesticus - House Sparrow I *

SE = State Endangered

FT = Federally Threatened

ST = State Threatened

X = Extirpated from Illinois

WL = Illinois Watch List

* = Confirmed Breeding in Illinois

I = Introduced

Table 3. Results of the 2008 spring season avian monitoring censuses conducted at the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998). The values represent the highest of the counts for the two censuses conducted at each census point. Counts of the total number of individuals of each species at each point are presented as well as the total number of individuals of each species.

Census Point

Species	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18	19	20	21	22	23	Tot.		
Canada Goose	1																							1	
Bald Eagle																			1						1
Red-bellied Woodpecker			1			1	1	1											1						5
Downy Woodpecker			1																						1
Black-capped Chickadee			1				5	3																	9
Tufted Titmouse																			1						1
White-breasted Nuthatch							2	2																	4
Brown Creepeer	1					1																			2
American robin				1		20													30	1					52
European Starling						4		1											23						28
Red-winged Blackbird																							5		5
Total Individuals	2	0	3	1	0	26	8	7	0	0	0	0	0	0	0	0	0	0	56	1	0	0	5	109	
Total Species	2		3	1		4	3	4	0	0	0	0	0	0	0	0	0	0	5	1	0	0	1	12	

Table 4. Cumulative list of all birds observed during 2008 and 2009 spring season avian monitoring visits to the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998).

Species	2008	2009
Canada Goose	X	X
Wood duck	X	
Mallard	X	
Wild Turkey	X	
Double-crested Cormorant	X	
Great Blue Heron	X	X
Turkey Vulture	X	
Bald Eagle	X	X
Northern Harrier	X	X
Cooper's Hawk		X
Red-tailed Hawk	X	X
Killdeer	X	
Rock Pigeon	X	
Mourning Dove	X	
Belted Kingfisher	X	
Red-bellied Woodpecker	X	X
Downy Woodpecker	X	X
Northern Flicker	X	
Pleated Woodpecker	X	
Eastern Pheobe	X	
Warbling vireo	X	
Blue Jay	X	
American Crow	X	X
Tree Swallow	X	
Barn Swallow	X	
Black-capped Chickadee	X	X
Tufted Titmouse	X	X
White-breasted Nuthatch	X	X
Brown Creeper		X
Carolina Wren	X	
House Wren	X	
Ruby-crowned Kinglet	X	
Blue-gray Gnatcatcher	X	
Eastern Bluebird	X	
Swainson's thrush	X	

Table 4. Cumulative list of all birds observed during 2008 and 2009 spring season (concluded).

species	2008	2009
Brown Thrasher	X	
European Starling	X	X
Tennessee Warbler	X	
Orange-crowned Warbler	X	
Northern Parula	X	
Yellow Warbler	X	
Yellow-rumped Warbler	X	
Black-throated Green warbler	X	
Palm Warbler	X	
Common Yellowthroat	X	
Field Sparrow	X	
Grasshopper sparrow	X	
Song Sparrow	X	
Swamp Sparrow	X	
White-crowned Sparrow	X	
Northern Cardinal	X	
Red-winged Blackbird	X	X
Eastern Meadowlark	X	
Common Grackle	X	
Brown-headed Cowbird	X	
American Goldfinch	X	X
Total Species Per Year	55	16
Total Species All Years	57	

Table 5. Results of the 2009 breeding season avian monitoring censuses conducted at the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998). The values represent the highest of the counts for the two censuses conducted at each census point. Counts of the total number of individuals of each species at each point are presented as well as the total number of individuals of each species.

Census Point

Species	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18	19	20	21	22	23	Tot.	
Yellow-billed Cuckoo																				1			1	
Downy Woodpecker				1				1											1					3
Northern Flicker								2																2
Eastern Wood-pewee	1							1																2
Eastern Phoebe																1								1
Great-crested Flycatcher	1														1		1	1	1					5
Warbling Vireo				1																				1
Blue Jay				1				1											1	2				5
Black-capped chickadee				2									1											3
White-breasted Nuthatch	1						1	2										2						6
House wren	1							1						1	1		1	1	2					8
Sedge Wren					1						2	1		1		1								6
Blue-gray Gnatcatcher																					1			1
American Robin	1														1			1						3
Gray Catbird													1											1
Common Yellowthroat		1			1		1	1			1	1		2	1	1	1			3	2	1		17
Scarlet Tanager																		1						1
Field Sparrow											1	1										1		3
Grasshopper Sparrow																								0
Song Sparrow		2			1	1	1	1			2		1	1	1	1	2	1		2	1	1		19
Northern Cardinal						1																		1
Indigo Bunting		3		1		1	1					1		2	1	1	1	1	2	1	1			17
Dickcissel					4						2	2		1		3	2							14
American Goldfinch											1													1
Total Individuals	5	6	0	6	7	3	4	10	0	0	9	6	3	8	6	8	8	8	8	7	10	5	2	121
Total Species	5	3	0	5	4	3	4	8	0	0	6	5	3	6	6	6	6	6	7	5	6	4	2	24

Table 6. Cumulative list of all birds observed during all breeding season avian monitoring visits (1999 – 2001, 2007 through 2009) to the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998).

Species	1999	2000	2001	2007	2008	2009
Canada Goose			X			
Wood Duck			X		X	
Mallard			X			X
Wild Turkey			X	X	X	X
American white Pelican					X	
Double-crested Cormorant		X				
Great Blue Heron	X	X	X	X	X	X
Great Egret		X				
Turkey Vulture		X	X		X	
Bald Eagle		X				
Copper's Hawk		X				
Red-shouldered Hawk			X			
Broad-winged hawk	X					
Red-tailed Hawk	X	X	X	X	X	X
Rock Pigeon		X				
Mourning Dove	X	X	X		X	
Yellow-billed Cuckoo		X	X	X	X	X
Chimney Swift	X	X		X	X	
Ruby-throated Hummingbird			X		X	
Belted Kingfisher		X	X	X		
Red-headed Woodpecker	X		X			
Red-bellied Woodpecker	X		X	X	X	
Downey Woodpecker	X	X	X	X	X	
Hairy Woodpecker	X					
Northern Flicker	X	X	X	X	X	X
Eastern Wood-pewee	X	X	X	X	X	X
Acadian Flycatcher	X					
Least Flycatcher			X			
Eastern Pheobe		X	X			X
Great-crested Flycatcher	X	X	X	X	X	X
Eastern Kingbird	X				X	
Yellow-throated Vireo	X	X	X		X	
Warbling Vireo	X	X	X	X	X	X
Red-eyed Vireo	X	X	X	X	X	
Blue Jay	X	X	X	X	X	X
American Crow	X	X	X			X

Table 6. continued on following page.

Table 6. Cumulative list of all birds observed during all breeding season avian monitoring visits (continued)

Species	1999	2000	2001	2007	2008	2009
Purple Martin	X	X	X		X	X
Tree Swallow	X		X	X		X
Northern Rough-winged Swallow		X	X		X	X
Bank Swallow		X				
Barn Swallow			X			
Black-capped Chickadee	X	X	X		X	
Tufted Titmouse	X	X	X	X	X	
White-breasted Nuthatch	X	X	X	X	X	X
Carolina Wren	X	X	X		X	
House Wren	X	X	X	X	X	X
Blue-gray Gnatcatcher	X		X			X
Eastern Bluebird				X		
Swainson's Thrush	X					
Wood Thrush	X	X	X	X	X	
American Robin	X	X	X	X	X	
Gray Catbird	X	X	X	X	X	
European Starling	X	X	X	X	X	
Cedar Waxwing		X	X	X		
Tennessee Warbler	X		X			
Northern Parula					X	
Yellow Warbler	X				X	
Chestnut-sided Warbler	X		X			
Magnolia warbler			X			
Black-throated Green Warbler	X		X			
Blackpoll Warbler			X			
American Redstart		X	X	X	X	
Worm-eating Warbler			X			
Ovenbird	X					
Common Yellowthroat	X	X	X	X	X	X
Yellow-breasted Chat	X	X		X	X	
Scarlet Tanager		X	X			X
Eastern Towhee			X		X	
Field Sparrow	X			X	X	X
Savannah Sparrow		X				
Grasshopper Sparrow	X	X	X	X	X	X
Song Sparrow	X	X	X	X	X	X

Table 6. concluded on following page.

Table 6. Cumulative list of all birds observed during all breeding season avian monitoring visits (concluded).

Species	1999	2000	2001	2007	2008	2009
White-throated Sparrow			X			
Northern Cardinal	X	X	X	X	X	X
Rose-breasted Grosbeak	X	X	X	X	X	
Indigo Bunting	X	X	X	X	X	X
Dickcissel	X	X	X	X	X	X
Bobolink			X			
Red-winged Blackbird	X	X	X	X	X	
Eastern Meadowlark				X	X	
Common Grackle	X		X	X	X	
Brown-Headed Cowbird	X	X	X	X	X	
Baltimore Oriole	X	X	X	X	X	
House Finch		X	X			
American Goldfinch	X	X	X	X	X	X
House Sparrow	X		X			
Total Species Per Year	52	51	65	40	50	27
Total Species All Years	85					

Table 7. Results of the 2009 fall migration season avian monitoring censuses conducted at the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998). The values represent the total of the counts for the two censuses conducted at each census point. Counts for each species at each point are presented as well as the total count for each species.

Census Point

Species	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18	19	20	21	22	23	Tot.	
Red-tailed Hawk																			1				1	
Red-bellied Woodpecker				2		1								1					1					5
Downy Woodpecker	1			1			1	2	1				1		1				1					9
Northern Flicker								1																1
Pileated Woodpecker							1																	1
American Crow																			1					1
Black-capped Chickadee	1			3				1					4										1	10
Tufted Titmouse							2	2											2					6
White-breasted Nuthatch				1			1	1					1											4
Brown Creeper				1			2																	3
Swamp Sparrow														1										1
White-throated Sparrow	1							2																3
Northern Cardinal	1								1													1		3
Red-winged Blackbird								10					1											11
Total Individuals	4	0	0	8	0	1	7	19	2	0	0	0	7	2	1	0	0	1	5	1	0	1		59
Total Species	4	0	0	5	0	1	5	7	2	0	0	0	4	2	1	0	0	1	4	1	0	1		

Table 8. Cumulative list of all birds observed during the 2007 through 2009 fall migration season avian monitoring visits to the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998).

Species	2007	2008	2009
Canada Goose	X		
Wood Duck	X		
Mallard	X		
American white Pelican		X	
Great Blue Heron	X	X	
Turkey Vulture	X		
Cooper's Hawk	X		
Red-tailed Hawk	X	X	X
Northern Harrier	X		
Sandhill Crane		X	
Killdeer	X		
Herring Gull	X		
Chimney Swift	X		
Belted Kingfisher	X	X	
Red-bellied Woodpecker	X	X	X
Downy Woodpecker	X	X	X
Northern Flicker	X	X	X
Pileated Woodpecker	X		X
Eastern Wood-pewee	X		
Eastern Pheobe	X		
Blue Jay	X		
American Crow	X		X
Black-capped Chickadee	X	X	X
Tufted Titmouse	X		X
White-breasted Nuthatch	X	X	X
Brown Creeper	X	X	X
Carolina Wren	X	X	
Golden-crowned Kinglet	X	X	
Eastern Bluebird	X	X	
Swainson's Thrush	X	X	
American Robin	X	X	
Gray Catbird	X		
European Starling	X	X	X
Cedar Waxwing	X	X	

Table 8. concluded on following page

Table 8. Cumulative list of all birds observed during the 2007 through 2009 fall migration season (concluded).

Species	2007	2008	2009
Yellow-rumped Warbler	X	X	
Palm Warbler	X		
American Redstart	X		
Northern Waterthrush	X		
Common Yellowthroat	X		
American Tree Sparrow	X	X	
Field Sparrow			X
Vesper Sparrow	X		
Swamp Sparrow	X	X	X
Song Sparrow	X	X	
White-throated Sparrow	X	X	X
Dark-eyed Junco		X	X
Northern Cardinal	X	X	X
Rose-breasted Grosbeak	X		
Red-winged Blackbird	X	X	X
Rusty Blackbird		X	
Common Grackle	X	X	
Brown-headed Cowbird	X		
American Goldfinch	X	X	X
Total Species Per Year	48	28	18
Total Species All Years	55		

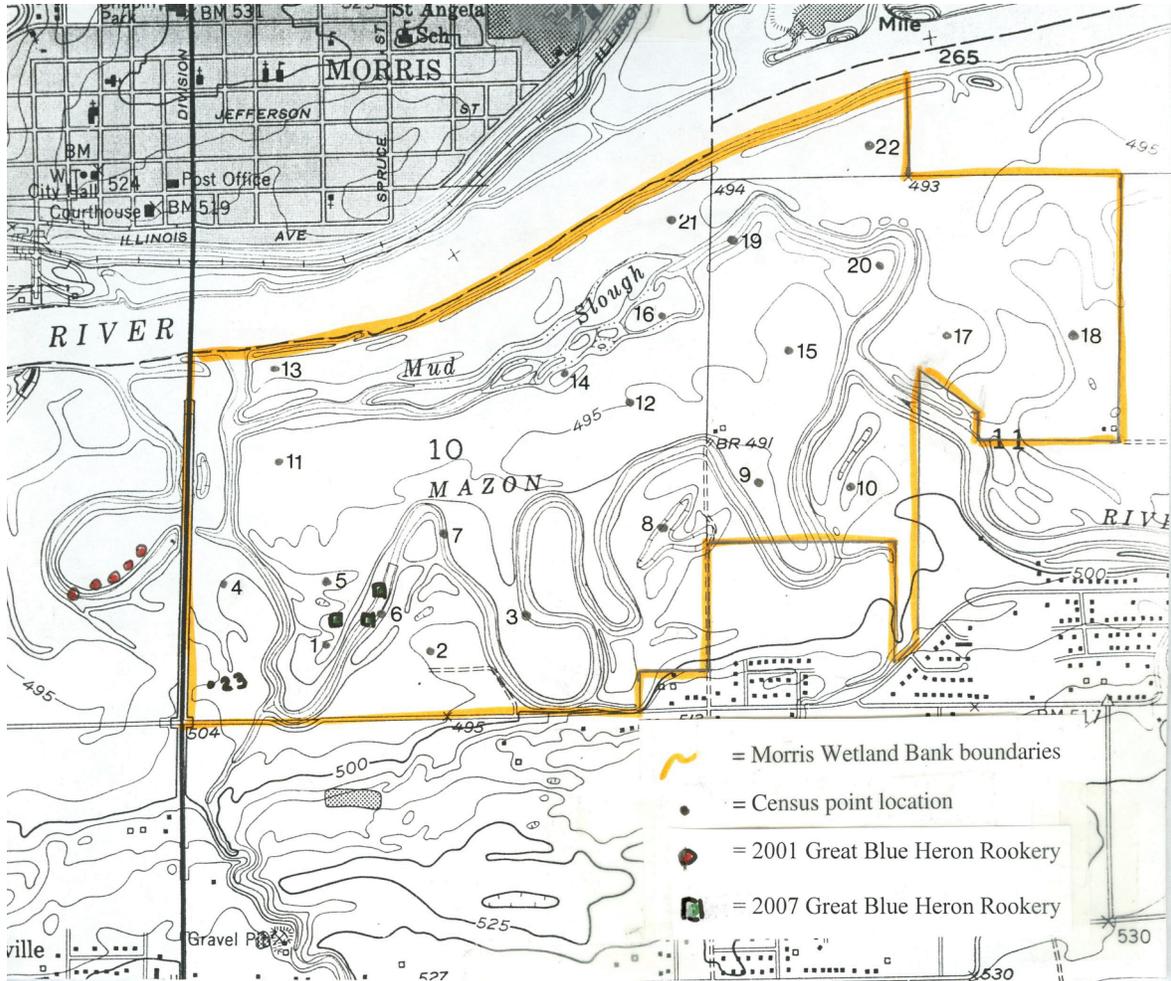


Figure 1. Location of the Morris Wetland Bank project area, the sighting points the 2001 and 2007 Great Blue Heron rookery located within the project area and the census points used in the avian survey of the project area.

