

**Results of the 2009 Four Season Avian Monitoring Surveys Conducted at the
La Grange Wetland Banking Site, Brown County, Illinois**

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Introduction

On 22 February 2000, the Illinois Department of Transportation (IDOT) requested that we monitor the avian fauna within the proposed Brown County Wetland Banking Site. 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 to be conducted for five consecutive years. Reports detailing the first two years, 2000 and 2001, of monitoring were forwarded to IDOT on 5 January 2001 and 8 April 2002 respectively. In June 2002, IDOT instructed us to stop monitoring this site until further notice.

On 4 August 2003, IDOT tasked us to resume monitoring the avian fauna at this site, renamed the La Grange Wetland Banking Site (LGWBS), and to continue these surveys, expanded to include the spring and fall migration and winter seasons, at least until 2008 with annual reports due in March of each year. Because tasking was not received until June 2003, only the 2003 breeding and fall migration seasons were completed before the March report deadline. A four-season survey was conducted at the site each year since 2004. This report contains the results of the 2009 surveys.

Project Area

The LGWBS is located in Brown County approximately 5 km southwest of Beardstown (Figure 1). It is bounded on the east by the Illinois River, to the north by the La Moine River, and on the south and west by various privately owned properties, and is approximately 667 ha (1648 acres) in area (Figure 1). Its legal location is:

ILLINOIS, Brown County. 3rd Principal Meridian: Township 1 South,
Range 1 West, portions of Sections 9,16,17, 20, and 21.

Much of the project area consists of former agricultural land that had been planted in row crops, mostly corn, in 2004. In 2005, acreage in row crops was greatly reduced and annual herbaceous plants covered much of the previously tilled land. In 2006, wetland tree species were planted in many sections of oldfield. Forested riparian corridors occur along the Illinois and La Moine rivers and a small section of upland forest is present in the southwest corner of the area. The area also includes part of Big Lake (a shallow body of open water) and several drainage ditches.

Methods

Thirteen census points have been established at the La Grange Wetland Banking site. Eleven census points were established in the LGWBS in all major cover types in 2000 (see Figure 1 and Table 1). Three additional survey points were added to the original eleven in 2003 (Figure 1 and Table 1). Census point 7, located in the La Moine River flood plane on the north edge of the site has been dropped as a census point. All census point locations are identified in Table 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 individuals 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 during a point count outside the habitat type being sampled were included in the species list for the project (Table 2), but not in the seasonal census lists for that point (Tables 3, 4, 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.

Results

One hundred thirty six species representing 42 families have been recorded at the La Grange Wetland Banking Site since we were tasked to conduct avian surveys at this site (breeding 2000 and 2001, breeding and fall 2003 and all seasons 2004 through 2009) (Table 2).

Winter Season:

The LGWBS was extensively flooded during the two winter survey season visits (6 and 25 February) and access to most of the site was impossible therefore no timed censuses were conducted. Forty six species have been observed at the LGWBS during the five years (2004 through 2009) winter surveys have been conducted. Thirteen species including two new winter records, the Green-winged Teal and the Belted Kingfisher, were observed at the site during the 2009 survey period (Table 3).

One Illinois threatened species, the Bald Eagle (1 adult), was observed at a new nest situated approximately 150 meters east of the old nest on both winter visits (Figure 1). Additionally, 1 immature and one adult Bald Eagles were observed on the ice site during the 2009 winter survey.

Spring Season:

The LGWBS was still extensively flooded during the spring migration season surveys (26 March and 23 April) and access to most of the site was still impossible therefore no timed censuses were conducted. A total of 95 species have been observed at the LGWBS during the five years (2004 through 2009) spring surveys have been conducted, 18 of which were observed in 2009, including two new spring records, a Belted Kingfisher and a Brown Thrasher (Table 4).

One Illinois threatened species, the Bald Eagle, was observed at the site during the 2006 spring visits. An adult Bald Eagle was observed at the new nest during the both visits (Figure 1). Additionally, one immature Eagle was observed flying over the site during the March visit.

Breeding Season:

The LGWBS was still extensively flooded during the breeding season surveys (19 June and 10 July) and access to most of the site was still impossible therefore no timed censuses were conducted. A total of 97 species have been observed at the LGWBS during the five years (2004 through 2009) breeding surveys have been conducted 24 of which were observed in 2009 including one new breeding season record, the Brown Thrasher (Table 5).

No Illinois threatened species, the Bald Eagle, was observed at the site during the June visit, however, no activity was observed near the new Eagle nest during the breeding season surveys.

Fall Season:

A total of 87 species have been observed at the LGWBS during the five years (2004 through 2009) that fall surveys have been conducted (Table 6). Of these, 14 species were detected in 2009 during the two visits (30 October and 12 November).

No Illinois or Federally listed species were observed during the fall migration season surveys. No activity was observed at the new Bald Eagle nest.

Discussion

Water levels were high during all four seasons, therefore, no timed censuses were able to be conducted in 2009.

One hundred thirty six species representing 42 families have been recorded at the La Grange Wetland Banking Site since surveys were tasked in 2001.

Bald Eagles nested at the site in 2009 at a newly constructed nest, however, no close observation of the established nest was possible due to high waters and thus there was no direct evidence breeding success.

Literature Cited

- American Ornithologists' Union. 2000. Forty-second Supplement to the American Ornithologists' Union Check-list of North American Birds. *Auk* 117(3): 847-858
- Banks, R.C., C. Cicero, J.L. Dunn, A.W. Kratter, P.C. Rasmussen, J.V. Remsen, Jr., J.D. Rising and D.F. Stotz. 2002. Forty-third Supplement to the American Ornithologists' Union Check-list of North American Birds. *Auk* 119(3): 897-906.
- _____ 2003. Forty-fourth Supplement to the American Ornithologists' Union Check-list of North American Birds. *Auk* 120(3): 923-931.
- _____ 2004. Forty-fifth Supplement to the American Ornithologists' Union Check-list of North American Birds. *Auk* 121(3): 985-995.
- Admiraal, A.N., M.J. Morris, T.C. Brooks, J.W. Olson and M.V. Miller. 1997. Illinois wetland restoration and creation guide. Illinois Natural History Survey Special Publication 19. 37pp
- Illinois Endangered Species Protection Board. 2004. Title 17: Conservation. Chapter I: Department of Natural Resources. Subchapter c: Endangered Species. Part 1010 Illinois List of Endangered and Threatened Fauna. <http://dnr.state.il.us/legal/adopted/1010.htm>
- Manley, P. N., W. M. Block, F. R. Thompson, G. S. Butcher, C. Paige, L.H. Suring, D. S. Winn, D. Roth, C. J. Ralph, E. Morris, C. H. Flather and K. Byford. 1993. Guidelines for monitoring populations of neotropical migratory birds on national forests system lands. Partners in flight / United States Department of Agriculture.
- Ralph, C.J., G.R. Geupel, P. Pyle, T.E. Martin and D.F. DeSante. 1993. Handbook of field methods for monitoring landbirds. Gen. Tech. Rep. PSW-GTR-144. Albany, CA: Pacific Research Station, Forest Service, U.S. Department of Agriculture. 41pp.

Table 1. Description of habitat surrounding census points established in the Brown County Wetland Banking study site, Brown County, Illinois.

Census Point	Habitat Description	Legal Location
1	Non-native grassland/lake shore	Brown Co., IL; T 18 N, R 1W; Section 21, SW/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 711,875mE 4,426,650mN
2	Floodplain Forest	Brown Co., IL; T 18 N, R 1W; Section 21, SE/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 712,150mE 4,426,600mN
3	Agricultural field	Brown Co., IL; T 18 N, R 1W; Section 21, NW/4, NE/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 712,300mE 4,427,200mN
4	Marsh	Brown Co., IL; T 18 N, R 1W; Section 16, SE/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 712,750mE 4,428,200mN
5	Marsh	Brown Co., IL; T 18 N, R 1W; Section 16, SW/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 711,775mE 4,428,750mN
6	Marsh	Brown Co., IL; T 18 N, R 1W; Section 17, SE/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,500mE 4,42,175mN

Table 1 continued on following page.

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

Census Point	Habitat Description	Legal Location
7	Floodplain Forest	Brown Co., IL; T 18 N, R 1W; Section 17, SW/4, NW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,200mE 4,428,500mN
8	Floodplain Forest edge	Brown Co., IL; T 18 N, R 1W; Section 20, NE/4, SW/4, SE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,550mE 4,426,050mN
9	Upland Forest	Brown Co., IL; T 18 N, R 1W; Section 20, SW/4, SW/4, SE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,300mE 4,425,750mN
10	Floodplain Forest / Backwater pond	Brown Co., IL; T 18 N, R 1W; Section 20, SE/4, SW/4, SE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,575mE 4,425,700mN
11	Old Field/slough edge	Brown Co., IL; T 18 N, R 1W; Section 20, SE/4, SE/4, SE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,875mE 4,425,800mN
12	Old Field	Brown Co., IL; T 18 N, R 1W; Section 17, NW/4, SE/4, SE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,600mE 4,427,550mN

Table 1 concluded on following page.

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

Census Point	Habitat Description	Legal Location
13	Old Field	Brown Co., IL; T 18 N, R 1W; Section 16, SW/4, SW/4, SW/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 711,075mE 4,427,400mN
14	Lake Shore/Old Field	Brown Co., IL; T 18 N, R 1W; Section 16, SW/4, NW/4, SE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 711,850mE 4,427,825mN

Table 2. Cumulative list of bird species observed during seven years of monitoring visits conducted at the La Grange Wetland Banking study site, Brown County, Illinois.

Nomenclature and taxonomic order from American Ornithologists' Union 2000 and Banks et al 2002, 2003 and 2004. Status from Illinois Endangered Species Protection Board 2004.

<u>Family</u>	<u>Subfamily</u>	Common Name	<i>Scientific name</i>
<u>Anatidae</u>			
Anserinae			
		Greater White-fronted Goose	<i>Anser albifrons</i>
		Snow Goose	<i>Chen caerulescens</i>
		Canada Goose	<i>Branta canadensis</i>
Anatinae			
		Wood Duck	<i>Aix sponsa</i>
		Gadwall	<i>Anas strepera</i>
		American Widgeon	<i>Anas Americana</i>
		American Black Duck	<i>Anas rubripes</i>
		Mallard	<i>Anas platyrhynchos</i>
		Blue-winged Teal	<i>Anas discors</i>
		Northern Shoveler	<i>Anas clypeata</i>
		Northern Pintail	<i>Anas acuta</i>
		Green-winged Teal	<i>Anas crecca</i>
		Redhead	<i>Aythya americana</i>
		Ring-necked Duck	<i>Aythya collaris</i>
		Lesser Scaup	<i>Aythya affinis</i>
		Bufflehead	<i>Bucephala albeola</i>
		Hooded Merganser	<i>Lophodytes cucullatus</i>
		Common Merganser	<i>Lothodyytes merganser</i>
		Rudy Duck	<i>Oxyura jamaicensis</i>
<u>Odontophoridae</u>			
		Northern Bobwhite	<i>Colinus virginianus</i>
<u>Podicipedidae</u>			
		Pied-billed Grebe	<i>Podilymbus podiceps</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	Common Name	<i>Scientific name</i>
<u>Pelecanidae</u>			
		American White Pelican	<i>Pelecanus erythrorhynchos</i>
<u>Phalacrocoracidae</u>			
		Double-crested Cormorant	<i>Phalacrocorax auritus</i>
<u>Ardeidae</u>			
		Least Bittern IT	<i>Ixobrychus exilis</i>
		Great Blue Heron	<i>Ardea herodias</i>
		Great Egret	<i>Ardea alba</i>
		Snowy Egret	<i>Egretta thula</i>
		Little Blue Heron IE	<i>Egretta caerulea</i>
		Green Heron	<i>Butorides virescens</i>
		Blk-crowned Night Heron IT	<i>Nycticorax nycticorax</i>
<u>Cathartidae</u>			
		Turkey Vulture	<i>Cathartes aura</i>
<u>Accipitridae</u>			
<u>Pandioninae</u>			
		Osprey	<i>Pandion haliaetus</i>
<u>Acciptrinae</u>			
		Bald Eagle FT IT	<i>Haliaeetus leucocephalus</i>
		Northern Harrier IE	<i>circus cyaneus</i>
		Cooper's Hawk	<i>Accipiter cooperii</i>
		Red-tailed Hawk	<i>Buteo jamaicensis</i>
		Rough-legged Hawk	<i>Buteo lagopus</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	Subfamily	Common Name	<i>Scientific name</i>
<u>Laridae</u>	Larinae		
		Franklin's Gull	<i>Larus pipixcan</i>
		Bonaparte's Gull	<i>Larus philadelphia</i>
		Ring-billed Gull	<i>Larus delawarensis</i>
		Herring Gull	<i>Larus argentatus</i>
<u>Columbidae</u>			
		Mourning Dove	<i>Zenaida macroura</i>
<u>Cuculidae</u>			
		Yellow-billed Cuckoo	<i>Coccyzus americanus</i>
<u>Strigidae</u>			
		Great Horned Owl	<i>Bubo virginianus</i>
		Barred Owl	<i>Strix varia</i>
<u>Apodidae</u>	Chaeturinae		
		Chimney Swift	<i>Chaetura pelagica</i>
<u>Trochilidae</u>			
		Ruby-throated Hummingbird	<i>Archicholus colbris</i>
<u>Alcedinidae</u>	Cerylinae		
		Belted Kingfisher	<i>Ceryle alcyon</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	Subfamily	Common Name	<i>Scientific name</i>
<u>Picidae</u>	Picinae	Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>
		Red-bellied Woodpecker	<i>Melanerpes carolinus</i>
		Downy Woodpecker	<i>Picoides pubescens</i>
		Hairy Woodpecker	<i>Picoides villosus</i>
		Northern Flicker	<i>Colaptes auratus</i>
		Pileated Woodpecker	<i>Dryocopus pileatus</i>
<u>Tyranidae</u>	Fluvicolinae	Eastern Wood-pewee	<i>Contopus virens</i>
		Eastern Pheobe	<i>Sayornis pheobe</i>
	Tyranninae	Great Crested Flycatcher	<i>Myiarchus crinitus</i>
		Eastern Kingbird	<i>Tyrannus tyrannus</i>
<u>Vireonidae</u>		Yellow-throated Vireo	<i>Vireo flavifrons</i>
		Warbling Vireo	<i>Vireo gilvus</i>
		Red-eyed Vireo	<i>Vireo olivaceus</i>
<u>Corvidae</u>		Blue Jay	<i>Cyanocitta cristata</i>
		American Crow	<i>Corvus brachyrhynchos</i>

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Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	<u>Common Name</u>	<u>Scientific name</u>
<u>Alaudidae</u>			
		Horned Lark	<i>Eremophila alpestris</i>
<u>Hirundinidae</u>			
		Tree Swallow	<i>Tachycinete bicolor</i>
		N. Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>
		Bank Swallow	<i>Riparia riparia</i>
		Cliff Swallow	<i>Petrochelidon pyrrhonota</i>
		Barn Swallow	<i>Hirunda rustica</i>
<u>Paridae</u>			
		Black-capped Chickadee	<i>Poecile atricapillus</i>
		Tufted Titmouse	<i>Baeolophus bicolor</i>
<u>Sittidae</u>			
		White-breasted Nuthatch	<i>Sitta carolinensis</i>
<u>Troglodytidae</u>			
		Carolina Wren	<i>Thryothorus ludovicianus</i>
		House Wren	<i>Troglodytes aedon</i>
		Sedge Wren	<i>Cistothorus platensis</i>
<u>Regulidae</u>			
		Ruby-crowned Kinglet	<i>Regulus calendula</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	Subfamily	Common Name	<i>Scientific name</i>
<u>Sylviidae</u>	Poliptilinae	Blue-gray Gnatcatcher	<i>Poliptila caerulea</i>
<u>Turdidae</u>		Eastern Bluebird	<i>Sialis sialis</i>
		American Robin	<i>Turdus migratorius</i>
<u>Mimidae</u>		Gray Catbird	<i>Dumetella carolinensis</i>
		Northern Mockingbird	<i>Mimus polyglottos</i>
		Brown Thrasher	<i>Toxostoma rufum</i>
<u>Sturnidae</u>		European Starling N	<i>Sturnus vulgaris</i>
<u>Motacillidae</u>		American Pipit	<i>Anthus rubescens</i>
<u>Bombycillidae</u>		Cedar Waxwing	<i>Bombycilla cedrorum</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	Common Name	<i>Scientific name</i>
<u>Parulidae</u>			
		Northern Parula	<i>Parula Americana</i>
		Yellow Warbler	<i>Dendroica petechia</i>
		Yellow-rumped Warbler	<i>Dendroica coronata</i>
		Black-throated Green warbler	<i>Dendroica virens</i>
		Palm Warbler	<i>Dendroica palmarum</i>
		Prothonotary Warbler	<i>Protonotaria citrea</i>
		Northern Waterthrush	<i>seiurus noveboracensis</i>
		Common Yellowthroat	<i>Geothlypis trichas</i>
		Yellow-breasted Chat	<i>Icteria virens</i>
<u>Emberizidae</u>			
		American Tree Sparrow	<i>Spizella arborea</i>
		Field Sparrow	<i>Spizella pusila</i>
		Savannah Sparrow	<i>Passerculus sandwichensis</i>
		Le Conte's Sparrow	<i>Ammodramus leconteii</i>
		Fox Sparrow	<i>Passerella iliaca</i>
		Song Sparrow	<i>Melospiza melodia</i>
		Lincoln's Sparrow	<i>Melospiza lincolnii</i>
		Swamp Sparrow	<i>Melospiza Georgiana</i>
		White-throated Sparrow	<i>Zonotrichia leucophrys</i>
		White-crowned Sparrow	<i>Zonotrichia albocollis</i>
		Dark-eyed Junco	<i>Junco hyemalis</i>
<u>Cardinalidae</u>			
		Northern Cardinal	<i>Cardinalis cardinalis</i>
		Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>
		Indigo Bunting	<i>Passerina cyanea</i>
		Dickcissel	<i>Spiza americana</i>

Table 2 concluded on following page.

Table 2. List of bird species (concluded).

<u>Family</u>	<u>Subfamily</u>	Common Name	<i>Scientific name</i>
<u>Icteridae</u>			
		Bobolink	<i>Dolichonyx oryzivorus</i>
		Red-winged Blackbird	<i>Agelaius phoeniceus</i>
		Eastern Meadowlark	<i>Sturnella magna</i>
		Rusty Blackbird	<i>Euphagus carolinus</i>
		Common Grackle	<i>Quiscalus quiscalus</i>
		Brown-headed Cowbird	<i>Molothrus ater</i>
		Orchard Oriole	<i>Icterus spurius</i>
		Baltimore Oriole	<i>Icterus galbula</i>
<u>Fringillidae</u>			
		American Goldfinch	<i>Carduelis tristis</i>
<u>Passeridae</u>			
		Eurasian Tree Sparrow N	<i>Passer montanus</i>
		House Sparrow N	<i>Passer domesticus</i>

N=Non-native Species
 FT=Federally threatened
 IE=Illinois endangered
 IT=Illinois threatened
 WL=Illinois Watch-List

Table 3. List of bird species observed during the 2004 through 2009 winter season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2004	2005	2006	2007	2008	2009
Greater White-fronted Goose	X	X				X
Snow Goose	X	X	X	X		
Canada Goose	X	X	X		X	X
Gadwall	X					
American Black Duck	X					
Mallard	X	X				X
Northern Shoveler		X				
Northern Pintail	X	X				X
Green-winged Teal						X
Redhead		X				
Rudy Duck		X				
Scaup species		X				
Northern Bobwhite	X		X			
Great Blue Heron	X					
Bald Eagle IT, FT	X	X	X	X	X	X
Northern Harrier IE	X		X	X		
Cooper's Hawk		X				
Red-tailed Hawk			X			
Rough-legged Hawk				X		
Killdeer	X					
Ring-billed Gull	X		X			X
Mourning Dove			X			
Red-bellied Woodpecker	X		X			
Downy Woodpecker	X		X			
Northern Flicker	X		X			
Blue Jay	X		X			X
American Crow	X		X	X	X	X
Horned Lark	X		X			X
Black-capped Chickadee	X		X	X		
Tufted Titmouse	X					
White-breasted Nuthatch	X		X			
Carolina Wren	X		X			
Eastern Bluebird	X		X			
American Robin	X		X			X
European Starling N	X		X			

Table 3 concluded on following page.

Table 3. List of bird observed during the 2004 through 2009 winter season visits (concluded).

Common Name	2004	2005	2006	2007	2008	2009
American Tree Sparrow	X		X	X	X	
Field Sparrow			X			
Fox Sparrow	X					
Song Sparrow	X		X	X	X	X
Swamp Sparrow	X		X			
White-crowned Sparrow			X			
Dark-eyed Junco	X					
Northern Cardinal	X		X			
Red-winged Blackbird	X		X			X
American Goldfinch	X		X	X	X	
Eurasian Tree Sparrow N	X					
Number of Species Per Year	35	11	28	9	6	13
Number of Species All Years	46					

IE=Illinois Endangered; IT=Illinois Threatened; FT=Federally Threatened; N=Non-native species

Table 4. List of bird species observed during all 2004 through 2009 spring season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2004	2005	2006	2007	2008	2009
Greater White-fronted Goose			X	X	X	
Snow Goose	X		X	X		
Canada Goose	X	X	X	X	X	X
Wood Duck	X	X	X	X	X	X
Gadwall			X			X
American Widgeon	X	X	X		X	
Mallard	X	X	X	X	X	
Blue-winged Teal	X	X	X	X	X	
Northern Shoveler		X	X	X	X	
Northern Pintail	X	X	X			
Green-winged Teal	X	X	X	X	X	
Redhead		X				
Ring-necked Duck			X			X
Lesser Scaup					X	
Bufflehead	X		X			
Hooded Merganser	X	X				
Common Merganser		X			X	
Rudy Duck	X	X	X			
Wild Turkey			X			
Northern Bobwhite	X					
Pied-billed Grebe		X			X	X
American White Pelican			X	X	X	
Double-crested Cormorant	X	X	X	X	X	X
American Bittern IE			X			
Great Blue Heron	X	X	X	X		X
Great Egret						
Green Heron		X				
Bald Eagle IT, FT		X	X	X	X	X
Northern Harrier IE	X		X		X	
Red-tailed Hawk	X	X				
Sora		X				
American Coot		X		X	X	X
Killdeer	X	X	X	X	X	
Greater Yellowlegs	X		X	X	X	
Lesser Yellowlegs	X	X			X	

Table 4 continued on following page.

Table 4. List of bird species observed during all 2004 through 2009 spring season visits (continued).

Common Name	2004	2005	2006	2007	2008	2009
Solitary Sandpiper		X				
Least Sandpiper		X	X			
Pectoral Sandpiper		X		X	X	
Wilson's Snipe	X	X	X			
Bonaparte's Gull	X					
Ring-billed Gull			X		X	X
Herring Gull	X					
Mourning Dove	X	X				
Belted Kingfisher						X
Red-headed Woodpecker		X	X		X	
Red-bellied Woodpecker	X	X	X	X	X	
Downy Woodpecker	X		X			
Hairy Woodpecker		X				
Northern Flicker	X	X	X	X		X
Pileated Woodpecker	X		X			
Eastern Pheobe		X	X			
Great Crested Flycatcher		X				
Eastern Kingbird		X				
Yellow-throated Vireo		X				
Warbling Vireo		X				
Red-eyed Vireo		X				
Blue Jay	X	X	X	X	X	
American Crow	X	X	X			
Horned Lark		X	X	X	X	
Tree Swallow	X	X	X	X	X	
Northern Rough-winged Swallow		X				
Cliff Swallow		X				
Barn Swallow		X				
Black-capped Chickadee	X	X	X		X	
Tufted Titmouse	X	X	X	X	X	
White-breasted Nuthatch		X	X			
Carolina Wren		X	X	X	X	
House Wren		X				
Ruby-crowned Kinglet	X				X	
Blue-gray Gnatcatcher	X					

Table 4 concluded on following page.

Table 4. List of bird species observed during all 2004 through 2009 spring season visits (concluded).

Common Name	2004	2005	2006	2007	2008	2009
Eastern Bluebird	X		X			
American Robin	X	X	X		X	X
Northern Mockingbird					X	
Brown Thrasher						X
European Starling N	X	X	X			
American Pipet		X				
Northern Parula		X				
Yellow Warbler		X				
Northern Waterthrush		X				
Common Yellowthroat		X				
American Tree Sparrow	X		X			
Chipping Sparrow			X			
Savannah Sparrow	X	X				
Fox Sparrow	X					
Song Sparrow	X	X	X	X	X	X
Swamp Sparrow	X		X	X	X	
White-throated Sparrow		X				
White-crowned Sparrow	X	X	X			
Dark-eyed Junco	X					
Northern Cardinal	X	X	X			
Red-winged Blackbird	X	X	X	X	X	X
Eastern Meadowlark	X	X	X			X
Common Grackle	X	X	X			
Brown-headed Cowbird	X	X	X			
House Finch	X					
American Goldfinch	X	X	X			
Eurasian Tree Sparrow N	X					
Number of Species Per Year	52	66	54	26	35	
Number of Species All Years	95					

IE = Illinois Endangered; IT= Illinois Threatened; FT = Federally Threatened; N = Non-native Species

Table 5. List of bird species observed during the 2000 through 2009 breeding season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2000	2001	2003	2004	2005	2006	2007	2008	2009
Snow Goose	X								
Canada Goose	X	X	X	X	X		X		X
Wood Duck				X	X		X	X	
Mallard	X	X	X	X	X		X	X	X
Blue-winged Teal	X						X		
Northern Shoveler					X				
Green-winged Teal	X								
Northern Bobwhite	X			X			X		X
Pied-billed Grebe				X				X	
American White Pelican			X					X	X
Double-crested Cormorant	X	X		X				X	X
Least Bittern IE	X								
Great Blue Heron		X	X	X	X		X	X	
Great Egret	X	X	X	X	X		X	X	X
Snowy Egret IT			X						
Little Blue Heron								X	
Green Heron	X	X		X					
Black-crowned Night Heron IT				X					
Turkey Vulture	X		X	X	X	X	X		
Bald Eagle IT	X				X		X	X	X
Northern Harrier IE			X						
Red-tailed hawk	X								
American Coot							X		X
Black-bellied Plover							X		
Killdeer	X	X		X	X		X	X	X
Black-necked Stilt								X	
Greater Yellowlegs			X	X					
Lesser Yellowlegs	X			X			X		
Solitary Sandpiper		X		X	X				
Spotted Sandpiper	X			X	X		X	X	
Sanderling							X		
Least Sandpiper	X			X			X	X	
Pectoral Sandpiper			X	X				X	
Wilson's Snipe	X								

Table 5. Continued on following page.

Table 5. List of bird species observed during the 2000 through 2008 breeding season visits (continued).

Common Name	2000	2001	2003	2004	2005	2006	2007	2008	2009
Franklin's Gull	X								
Herring Gull	X			X					
Mourning Dove	X	X	X	X	X		X		
Yellow-billed Cuckoo	X	X		X	X	X		X	X
Great Horned Owl	X								
Barred Owl	X	X							
Ruby-throated Hummingbird		X							
Belted Kingfisher	X	X					X		X
Red-headed Woodpecker	X	X		X	X	X	X	X	
Red-bellied Woodpecker	X	X	X	X	X	X	X		
Downy Woodpecker	X	X		X	X	X		X	
Hairy Woodpecker		X							
Northern Flicker	X		X	X			X	X	
Eastern Wood-pewee	X	X	X	X	X	X	X	X	
Eastern Pheobe	X		X					X	X
Willow Flycatcher					X				
Great-crested Flycatcher	X	X			X	X	X		
Eastern Kingbird	X		X	X	X		X	X	
Yellow-throated Vireo	X								
Warbling Vireo		X			X	X	X	X	X
Red-eyed Vireo	X	X					X		
Blue Jay	X	X	X	X	X	X	X	X	
American Crow	X	X	X	X	X	X	X	X	
Horned Lark	X	X	X						
Purple Martin					X				
Tree Swallow	X	X	X	X	X	X	X	X	X
Northern Rough-winged Swallow			X	X	X		X	X	
Bank Swallow	X			X					
Cliff Swallow							X		
Barn Swallow	X	X	X	X			X		X
Black-capped Chickadee	X	X		X		X		X	
Tufted Titmouse	X								
White-breasted Nuthatch	X	X	X			X		X	

Table 5. Concluded on following page.

Table 5. List of bird species observed during the 2000 through 2008 breeding season visits (concluded).

Common Name	2000	2001	2003	2004	2005	2006	2007	2008	2009
Carolina Wren	X	X		X	X	X		X	
House Wren	X	X			X	X	X		X
Sedge Wren					X		X		
Black-gray Gnatcatcher	X								
Eastern Bluebird	X								
American Robin	X	X		X	X	X		X	
Gray Catbird	X	X		X	X	X	X		
Brown Thrasher									X
European Starling	X						X		
Cedar Waxwing	X							X	
American Pipit		X							
Yellow Warbler							X		
Prothonotary Warbler		X							
Common Yellowthroat	X	X	X	X	X	X	X	X	X
Yellow-breasted Chat		X			X		X		
American Tree Sparrow	X								
Song Sparrow	X	X	X	X	X	X	X	X	X
Northern Cardinal	X	X	X	X	X	X	X	X	X
Indigo Bunting	X	X	X	X	X	X	X	X	X
Dickcissel	X		X		X		X	X	X
Bobolink				X					
Red-winged Blackbird	X	X	X	X	X	X	X	X	X
Eastern Meadowlark					X		X		
Common Grackle	X	X			X	X	X	X	
Brown-headed Cowbird	X	X	X		X	X	X		
Orchard Oriole							X		
Baltimore Oriole	X	X			X		X	X	X
American Goldfinch	X	X	X	X				X	
Eurasian Tree Sparrow N	X	X		X					
House Sparrow N	X								
Number species Per Year	65	49	31	45	42	24	49	40	24
Number of Species All Years	97								

IE= Illinois Endangered; IT = Illinois Threatened; FT=Federally Threatened; N = Non-native Species

Table 6. List of bird species observed during the 2003 through 2009 fall migration season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2003	2004	2005	2006	2007	2008	2009
Canada Goose		X	X	X	X		
Wood Duck	X						
Gadwall							X
American Widgeon	X						
Mallard	X	X		X	X	X	X
Northern Shoveler	X				X		X
Northern Pintail	X				X		
Green-winged Teal		X					
Lesser Scaup	X						X
Rudy Duck	X				X		X
Ring-necked Pheasant				X		X	
Northern Bobwhite					X		
Pied-billed Grebe					X	X	
American White Pelican	X	X				X	
Double-crested Cormorant	X	X				X	
Great Blue Heron	X	X	X	X	X	X	X
Great Egret	X	X		X	X	X	
Turkey Vulture	X				X		
Osprey IE		X					
Bald Eagle IT, FT		X	X		X		
Northern Harrier IE	X	X	X	X	X		
Cooper's Hawk					X		X
Red-tailed hawk	X	X		X	X		
Sora WL	X				X		
American Coot						X	X
Killdeer	X	X	X			X	
Greater Yellowlegs	X	X					
Lesser Yellowlegs	X						
Baird's Sandpiper	X						
Pectoral Sandpiper	X	X					
Wilson's Snipe WL					X	X	
Phalarope sp.	X						
Ring-billed Gull	X				X	X	
Herring Gull		X				X	
Mourning Dove	X				X	X	

Table 6. continued on following page

Table 6. List of bird species observed during the 2003 through 2009 fall migration seasons (Continued).

Common Name	2003	2004	2005	2006	2007	2008	2009
Yellow-billed Cuckoo	X						
Chimney Swift		X		X			
Ruby-throated Hummingbird					X		
Belted Kingfisher							X
Red-headed Woodpecker	X		X				
Red-bellied Woodpecker	X	X	X		X	X	
Downy Woodpecker	X	X	X	X	X	X	
Northern Flicker	X	X		X	X	X	
Eastern Wood-pewee					X		
Eastern Pheobe	X	X					
Warbling Vireo	X						
Blue Jay	X	X	X	X	X		X
American Crow	X	X	X	X	X	X	
Horned Lark				X			
Tree Swallow	X	X	X	X	X	X	
Northern Rough-winged Swallow		X				X	
Barn Swallow		X					
Black-capped Chickadee	X	X	X	X	X	X	X
White-breasted Nuthatch	X	X	X	X			
Carolina Wren	X	X	X	X			
House Wren		X					
Golden-crowned Kinglet				X			
Ruby-crowned Kinglet		X					
American Robin		X		X	X		X
Gray Catbird					X		
European Starling			X	X	X	X	
American Pipit	X	X				X	
Yellow-rumped Warbler		X		X			
Black-throated Green Warbler		X					
Palm Warbler		X			X		
Common Yellowthroat		X			X		
Yellow-breasted Chat		X					
American Tree Sparrow		X	X	X	X	X	
Chipping Sparrow				X			

Table 6. concluded on following page.

Table 6. List of bird species observed during the 2003 through 2009 fall migration seasons (Concluded).

Common Name	2003	2004	2005	2006	2007	2008	2009
Field sparrow	X			X			
Savannah Sparrow		X					
Le Conte's Sparrow	X						
Fox Sparrow			X	X	X		
Song Sparrow		X	X		X		
Lincoln Sparrow	X	X					
Swamp Sparrow	X	X	X	X	X		
White-throated Sparrow	X	X	X		X	X	
White-crowned sparrow	X	X	X	X	X		
Dark-eyed Junco			X	X	X		
Northern Cardinal	X	X		X			
Rose-breasted Grosbeak	X						
Indigo Bunting	X	X		X	X		
Red-winged Blackbird	X	X	X	X	X	X	X
Rusty Blackbird	X						
Baltimore Oriole	X						
American Goldfinch	X	X	X	X	X	X	X
Eurasian Tree Sparrow N		X					
Number of species Per Year	50	49	24	32	42	26	14
Number of Species All Years	87						

IE=Illinois Endangered; IT=Illinois Threatened; FT=Federally Threatened; N=Non-native species; WL=Illinois Watch-List

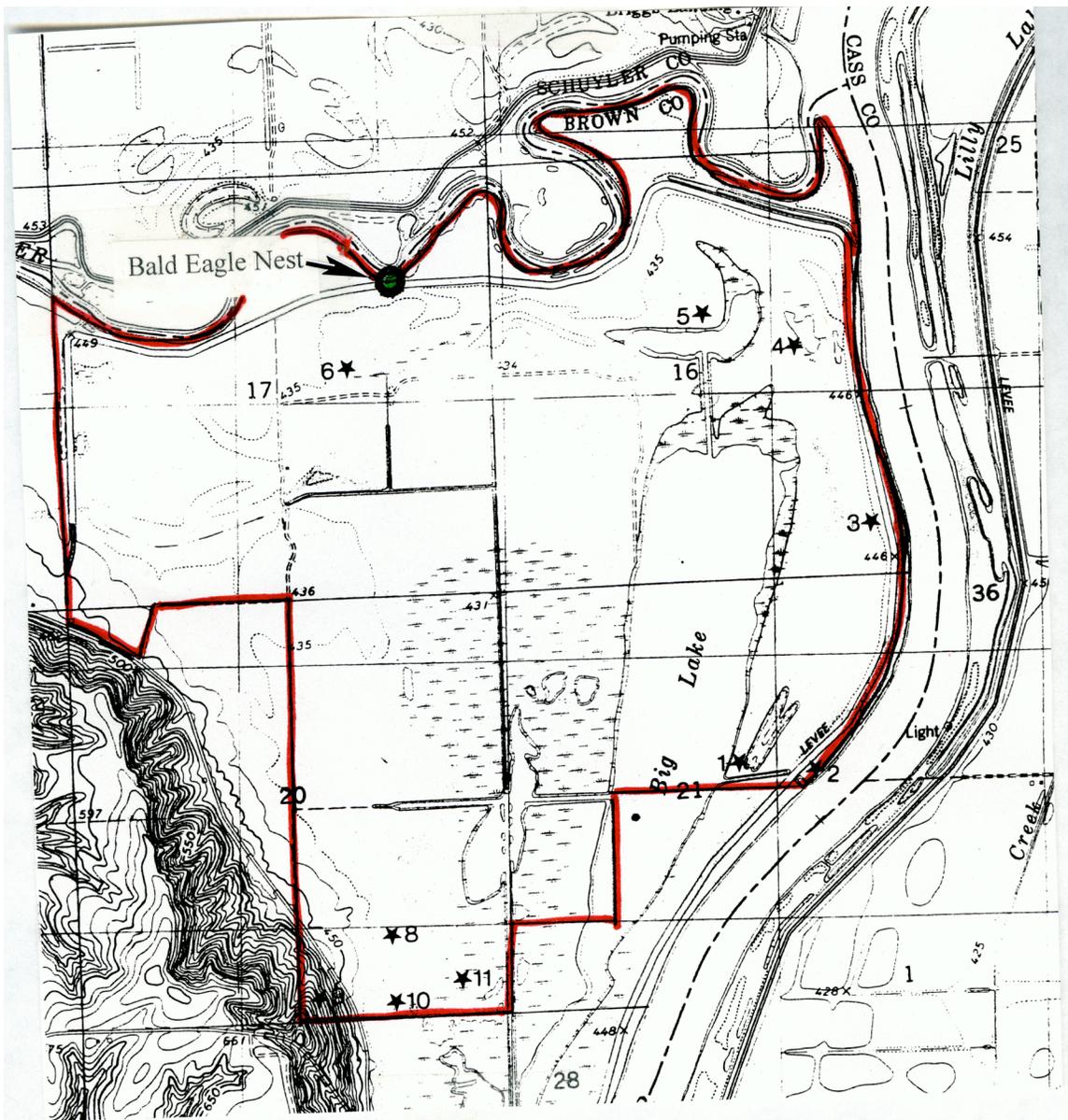


Figure 1. Location of the La Grange Wetland Bank Site project area, the census points used in the avian survey of the project area and the established Bald Eagle nest. The boundaries of the study area are highlighted in red.