

**Results of the 2004 Four Season Avian Monitoring Surveys Conducted at the La
Grange Wetland Banking Site, Brown County, Illinois**

Prepared by:

Steven B. Amundsen
Assistant Technical Scientist III

Center for Wildlife and Plant Ecology
Illinois Natural History Survey
607 E. Peabody Drive
Champaign, IL 61820

Prepared for:

The Illinois Department of Transportation
Bureau of Design and Environment
Springfield, Illinois 62764

11 March 2005

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, Tom Brooks of 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 in 2004. This report contains the results of the 2004 surveys. Subsequent annual reports will include the full results of each yearly four season (Winter, Spring migration, breeding and fall migration) 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. 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 agricultural land that had been planted in row crops, mostly corn, in 2004. 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 avian 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, was not censused in 2003 or 2004 because access was blocked by high water or agricultural crop plantings in both years. This point has been dropped as a census point. All census point locations are identified on a set of aerial photographs.

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 census list for that point (Table 3). 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 seventeen species representing 40 families have been recorded at the La Grange Wetland Banking Site during the four years (breeding 2000 and 2001, breeding and fall 2003 and all seasons 2004) that surveys have been conducted (Table 2).

Winter Season:

Thirty-five avian species were observed at the LGWBS during the 2004 winter season surveys (Table 3). A total of 198 individuals representing 22 species were recorded within 75 m of the census points during the timed censuses conducted on 11 and 27 February 2004 (Table 4). One Illinois and Federally threatened species, the Bald Eagle, and one Illinois endangered species, Northern Harrier, were observed flying over the site during the winter survey.

Spring Season:

Fifty-two avian species were observed at the LGWBS during the 2004 spring season surveys (Table 5). A total of 232 individuals representing 32 species were recorded within 75 m of the census points during the timed censuses conducted on 23 March and 14 April 2004 (Table 6). One Illinois endangered species, the Northern Harrier, was observed foraging at the site during the spring visits.

Breeding Season:

A total of 83 species have been recorded during the four years (2000, 2001, 2003 and 2004) that breeding season surveys have been conducted at the LGWNS (Table 7). Severe flooding during most of the breeding season prevented access to the site until August. Subsequently, only one survey was completed during the breeding season. Forty-five species were recorded during the 2004 season with 68 individuals representing 23 species being recorded during the timed census conducted on 13 August 2004 (Tables 7 and 8). One Illinois endangered species, an immature Black-crowned Night Heron, was observed late in the breeding season.

Fall Season:

A total of 70 species have been observed at the LGWBS during the 2 years that fall surveys have been conducted (Table 9). Of these, 49 species were detected in 2004 with a total of 203 individuals representing 30 species being recorded during the timed censuses conducted on 1 October and 17 November 2004 (Table 10). Two Illinois endangered species, the Osprey and the Northern Harrier) were observed flying over the site during the fall survey period (Figure 1). One Illinois and Federally threatened Species, the Bald Eagle, was seen perched in a dead tree near the northern boundary of the site on 17 November (Figure 1).

Discussion

The detection of the immature Black-crowned Night Heron very late in the breeding season cannot be construed as evidence that this species bred at the site. This species nests in trees, often with other egret species in conspicuous colonies, however no egret rookeries were detected within the boundaries of the study area. Subsequently, this bird was most likely a post breeding season vagrant. No other listed species was observed at the site during the breeding season. Those listed species detected during the non-breeding seasons were either over wintering at or migrating through the site.

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
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

Table 1 continued on following page.

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

Census Point	Habitat Description	Legal Location
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
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 four 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>	<u>Common Name</u>	<u>Scientific name</u>
<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>
		Lesser Scaup	<i>Aythya affinis</i>
		Bufflehead	<i>Bucephala albeola</i>
		Hooded Merganser	<i>Lophodytes cucullatus</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>
<u>Pelecanidae</u>			
		American White Pelican	<i>Pelecanus erythrorhynchos</i>
<u>Phalacrocoracidae</u>			
		Double-crested Cormorant	<i>Phalacrocorax auritus</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	Common Name	Scientific name
<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>
		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>
		Red-tailed Hawk	<i>Buteo jamaicensis</i>
<u>Rallidae</u>			
		Sora WL	<i>Porzana carolina</i>
<u>Charadriidae</u>			
		Killdeer	<i>Charadrius vociferus</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	<u>Common Name</u>	<u>Scientific name</u>
<u>Scolopacidae</u>			
		Greater Yellowlegs	<i>Tringa melanoleuca</i>
		Lesser Yellowlegs	<i>Tringa flavipes</i>
		Baird's Sandpiper	<i>Calidria bairdi</i>
		Solitary Sandpiper	<i>Tringa solitaria</i>
		Spotted Sandpiper	<i>Actitis macularia</i>
		Least Sandpiper	<i>Calidris minutilla</i>
		Pectoral Sandpiper	<i>Caladris melanotos</i>
		Wilson's Snipe WL	<i>Gallinago gallinago</i>
		Wilson's Phalarope IE	<i>Phalaropus tricolor</i>
<u>Laridae</u>			
	<u>Larinae</u>		
		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>			
	<u>Chaeturinae</u>		
		Chimney Swift	<i>Chaetura pelagica</i>
<u>Trochilidae</u>			
		Ruby-throated Hummingbird	<i>Archicholus colbris</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	<u>Common Name</u>	<u>Scientific name</u>
<u>Alcedinidae</u>	<u>Cerylinae</u>	Belted Kingfisher	<i>Ceryle alcyon</i>
<u>Picidae</u>	<u>Picinae</u>	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>	<u>Fluvicolinae</u>	Eastern Wood-pewee	<i>Contopus virens</i>
		Eastern Pheobe	<i>Sayornis pheobe</i>
	<u>Tyranninae</u>	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>
<u>Alaudidae</u>		Horned Lark	<i>Eremophila alpestris</i>

Table 2 continued on following page.

Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	<u>Common Name</u>	<u>Scientific name</u>
<u>Hirundinidae</u>			
		Tree Swallow	<i>Tachycinete bicolor</i>
		N. Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>
		Bank Swallow	<i>Riparia riparia</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>
<u>Regulidae</u>			
		Ruby-crowned Kinglet	<i>Regulus calendula</i>
<u>Sylviidae</u>			
	<u>Poliophtilinae</u>		
		Blue-gray Gnatcatcher	<i>Poliophtila 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>
<u>Sturnidae</u>			
		European Starling N	<i>Sturnus vulgaris</i>

Table 2 concluded on following page.

Table 2. List of bird species (concluded).

<u>Family</u>	<u>Subfamily</u>	<u>Common Name</u>	<u>Scientific name</u>
<u>Bombycillidae</u>			
		Cedar Waxwing	<i>Bombycilla cedrorum</i>
<u>Motacillidae</u>			
		American Pipit	<i>Anthus rubescens</i>
<u>Parulidae</u>			
		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>
		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>	<u>Common Name</u>	<u>Scientific name</u>
<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>
		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 winter season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2004
Greater White-fronted Goose	X
Snow Goose	X
Canada Goose	X
Gadwall	X
American Black Duck	X
Mallard	X
Northern Pintail	X
Northern Bobwhite	X
Great Blue Heron	X
Bald Eagle IT, FT	X
Northern Harrier IE	X
Killdeer	X
Ring-billed Gull	X
Red-bellied Woodpecker	X
Downy Woodpecker	X
Northern Flicker	X
Blue Jay	X
American Crow	X
Horned Lark	X
Black-capped Chickadee	X
Tufted Titmouse	X
White-breasted Nuthatch	X
Carolina Wren	X
Eastern Bluebird	X
American Robin	X
European Starling N	X
American Tree Sparrow	X
Fox Sparrow	X
Song Sparrow	X
Swamp Sparrow	X
Dark-eyed Junco	X
Northern Cardinal	X
Red-winged Blackbird	X
American Goldfinch	X
Eurasian Tree Sparrow N	X
Number of Species	35

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

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

Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Canada Goose											2				2
Mallard	10												40		50
Killdeer	1														1
Red-bellied Woodpecker		2				1		1	2	1					7
Downy Woodpecker		1				2		3	2	3	2				13
Blue Jay									3	2	1				6
American Crow		1							1		1				3
Black-capped Chickadee		2						7	1	3	3				16
Tufted Titmouse								1	1	1					3
White-breasted Nuthatch									1	1					2
Carolina Wren		2													2
Eastern Bluebird									1	1					2
American Robin								1							1
European Starling						2									2
American Tree Sparrow	1				8	10						11	10		40
Song Sparrow		2								2			1	1	6
Swamp Sparrow												1			1
Dark-eyed Junco									3						3
Northern Cardinal		2						2	4	6	1				15
Red-winged Blackbird	3	2			10	1		2							18
American Goldfinch						1				1			1		3
Eurasian Tree Sparrow N						2									2
Total Individuals	15	14	0	0	18	19	NA	17	19	21	10	11	53	1	198
Total Species	4	8	0	0	2	7	NA	7	10	10	6	1	5	1	22

N=Non-native Species

Table 5. List of bird species observed during the 2004 spring season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2004
Snow Goose	X
Canada Goose	X
Wood Duck	X
American Widgeon	X
Mallard	X
Blue-winged Teal	X
Northern Pintail	X
Green-winged Teal	X
Bufflehead	X
Hooded Merganser	X
Rudy Duck	X
Northern Bobwhite	X
Double-crested Cormorant	X
Great Blue Heron	X
Northern Harrier IE	X
Red-tailed Hawk	X
Killdeer	X
Greater Yellowlegs	X
Lesser Yellowlegs	X
Wilson's Snipe	X
Bonaparte's Gull	X
Herring Gull	X
Mourning Dove	X
Red-bellied Woodpecker	X
Downy Woodpecker	X
Northern Flicker	X
Pileated Woodpecker	X
Blue Jay	X
American Crow	X
Tree Swallow	X
Black-capped Chickadee	X
Tufted Titmouse	X
Ruby-crowned Kinglet	X
Blue-gray Gnatcatcher	X
Eastern Bluebird	X

Table 5 concluded on following page.

Table 5. List of bird species observed during the 2004 spring season (concluded).

Common Name	2004
American Robin	X
European Starling N	X
American Tree Sparrow	X
Savannah Sparrow	X
Fox Sparrow	X
Song Sparrow	X
Swamp Sparrow	X
White-crowned Sparrow	X
Dark-eyed Junco	X
Northern Cardinal	X
Red-winged Blackbird	X
Eastern Meadowlark	X
Common Grackle	X
Brown-headed Cowbird	X
House Finch	X
American Goldfinch	X
Eurasian Tree Sparrow N	X
Number of Species	52

IE = Illinois Endangered; N = Non-native Species

Table 6. List of bird species observed during the 2004 spring season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Canada Goose											2				2
Blue-winged Teal						4					6				10
Green-winged Teal											2			15	17
Northern Bobwhite						1									1
Double-crested Cormorant		5													5
Great Blue Heron		2												1	3
Killdeer	2					2									4
Wilson's Snipe				3	1										4
Mourning Dove		1													1
Red-bellied woodpecker									1						1
Downy Woodpecker		1						1	2	1					5
Northern Flicker										1					1
Pileated Woodpecker									1						1
Blue Jay								1	1						2
Tree Swallow						3									3
Black-capped Chickadee								3		2	2				7
Tufted Titmouse								2		1					3
Ruby-crowned Kinglet									1						1
Blue-gray Gnatcatcher										1					1
Eastern Bluebird								1							1
American Robin		3							1						4
European Starling						1		1							2
American Tree Sparrow						2								4	6
Song Sparrow	2	3	1	2	3			2		3	2	2	3	1	24
Swamp Sparrow					2	2				1	3				8
White-crowned Sparrow						1									1
Northern Cardinal		2	1					1	2	2					8
Red-winged Blackbird	7	3	2	3	10	16		1		2	1	3	14	4	66
Common Grackle		32													32
Brown-headed cowbird			1			1		1					1		4
American Goldfinch								1							1
Eurasian Tree Sparrow						3									3
Total Individuals	11	52	5	8	16	36	NA	15	9	14	18	5	18	25	232
Total Species	3	9	4	3	4	11	NA	11	7	9	7	2	3	5	32

Table 7. List of bird species observed during the 2000, 2001, 2003 and 2004 breeding season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2000	2001	2003	2004
Snow Goose	X			
Canada Goose	X	X	X	X
Wood Duck				X
Mallard	X	X	X	X
Blue-winged Teal	X			
Green-winged Teal	X			
Northern Bobwhite	X			X
Pied-billed Grebe				X
American White Pelican			X	
Double-crested Cormorant	X	X		X
Least Bittern IE	X			
Great Blue Heron		X	X	X
Great Egret	X	X	X	X
Snowy Egret IT			X	
Green Heron	X	X		X
Black-crowned Night Heron IT				X
Turkey Vulture	X		X	X
Bald EagleIT, FT	X			
Northern Harrier IE			X	
Red-tailed hawk	X			
Killdeer	X	X		X
Greater Yellowlegs			X	X
Lesser Yellowlegs	X			X
Solitary Sandpiper		X		X
Spotted Sandpiper	X			X
Least Sandpiper	X			X
Pectoral Sandpiper			X	X
Wilson's Snipe	X			
Franklin's Gull	X			
Herring Gull	X			X
Mourning Dove	X	X	X	X
Yellow-billed Cuckoo	X	X		X
Great Horned Owl	X			
Barred Owl	X	X		

Table 7. Continued on following page.

Table 7. List of bird species observed during the 2000, 2001, 2003 and 2004 breeding season (continued).

Common Name	2000	2001	2003	2004
Ruby-throated Hummingbird		X		
Belted Kingfisher	X	X		
Red-headed Woodpecker	X	X		X
Red-bellied Woodpecker	X	X	X	X
Downy Woodpecker	X	X		X
Hairy Woodpecker		X		
Northern Flicker	X		X	X
Eastern Wood-pewee	X	X	X	X
Eastern Pheobe	X		X	
Great-crested Flycatcher	X	X		
Eastern Kingbird	X		X	X
Yellow-throated Vireo	X			
Warbling Vireo		X		
Red-eyed Vireo	X	X		
Blue Jay	X	X	X	X
American Crow	X	X	X	X
Horned Lark	X	X	X	
Tree Swallow	X	X	X	X
Northern Rough-winged swallow			X	X
Bank Swallow	X			X
Barn Swallow	X	X	X	X
Black-capped Chickadee	X	X		X
Tufted Titmouse	X			
White-breasted Nuthatch	X	X	X	
Carolina Wren	X	X		X
House Wren	X	X		
Black-gray Gnatcatcher	X			
Eastern Bluebird	X			
American Robin	X	X		X
Gray Catbird	X	X		X
European Starling N	X			
Cedar Waxwing	X			
American Pipit		X		
Prothonotary Warbler		X		
Common Yellowthroat	X	X	X	X
Yellow-breasted Chat		X		

Table 7. Concluded on following page.

Table 7. List of bird species observed during the 2000, 2001 and 2003 breeding season (concluded).

Common Name	2000	2001	2003	2004
American Tree Sparrow	X			
Song Sparrow	X	X	X	X
Northern Cardinal	X	X	X	X
Indigo Bunting	X	X	X	X
Dickcissel	X		X	
Bobolink				X
Red-winged Blackbird	X	X	X	X
Common Grackle	X	X		
Brown-headed Cowbird	X	X	X	
Baltimore Oriole	X	X		
American Goldfinch	X	X	X	X
Eurasian Tree Sparrow N	X	X		X
House Sparrow N	X			
Number species (83 Total)	65	49	31	45

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

Table 8. Results of the 2004 breeding season avian monitoring censuses conducted at the La Grange Wetland Banking Site, Brown County, Illinois. The values represent the highest 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

Species	Census Point														Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Wood Duck													1		1
Pied-billed Grebe				2	3										5
Double-crested Cormorant													1		1
Great Blue Heron										1	1				2
Green Heron										1	1				2
Killdeer	2													3	5
Lesser Yellowlegs														1	1
Spotted Sandpiper	1														1
Yellow-billed Cuckoo			1						1	1					3
Downy Woodpecker									1						1
Eastern Wood-pewee		1							1						2
Eastern Pheobe										1			2		3
Eastern Kingbird		1				1									2
Blue Jay										1					1
Black-capped Chickadee									1						1
Gray Catbird		1													1
Common Yellowthroat						2				1					3
Song Sparrow			2	1	1	1							1		6
Northern Cardinal						1		1		4	1				7
Indigo Bunting		1				5		1		1	1	1			10
Bobolink					3										3
Red-winged Blackbird		2			2							2			6
Eurasian Tree Sparrow N						1									1
Total Individuals	3	6	3	3	9	11	NA	2	4	11	4	3	5	4	68
Total Species	2	5	2	2	4	6	NA	2	4	8	4	2	4	2	23

N=Non-native Species

Table 9. List of bird species observed during the 2004 fall migration season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2003	2004
Canada Goose		X
Wood Duck	X	
American Widgeon	X	
Mallard	X	X
Northern Shoveler	X	
Northern Pintail	X	
Green-winged Teal		X
Lesser Scaup	X	
Rudy Duck	X	
American White Pelican	X	X
Double-crested Cormorant	X	X
Great Blue Heron	X	X
Great Egret	X	X
Turkey Vulture	X	
Osprey IE		X
Bald Eagle IT, FT		X
Northern Harrier IE	X	X
Red-tailed hawk	X	X
Sora WL	X	
Killdeer	X	X
Greater Yellowlegs	X	X
Lesser Yellowlegs	X	
Baird's Sandpiper	X	
Pectoral Sandpiper	X	X
Phalarope sp.	X	
Ring-billed Gull	X	
Herring Gull		X
Mourning Dove	X	
Yellow-billed Cuckoo	X	
Chimney Swift		X
Red-headed Woodpecker	X	
Red-bellied Woodpecker	X	X
Downy Woodpecker	X	X
Northern Flicker	X	X
Eastern Pheobe	X	X

Table 9. concluded on following page

Table 9. List of bird species (Concluded).

Common Name	2003	2004
Warbling Vireo	X	
Blue Jay	X	X
American Crow	X	X
Tree Swallow	X	X
Northern Rough-winged Swallow		X
Barn Swallow		X
Black-capped Chickadee	X	X
White-breasted Nuthatch	X	X
Carolina Wren	X	X
House Wren		X
Ruby-crowned Kinglet		X
American Robin		X
American Pipit	X	X
Yellow-rumped Warbler		X
Black-throated Green Warbler		X
Palm Warbler		X
Common Yellowthroat		X
Yellow-breasted Chat		X
American Tree Sparrow		X
Field sparrow	X	
Savannah Sparrow		X
Le Conte's Sparrow	X	
Song Sparrow		X
Lincoln Sparrow	X	X
Swamp Sparrow	X	X
White-throated Sparrow	X	X
White-crowned sparrow	X	X
Northern Cardinal	X	X
Rose-breasted Grosbeak	X	
Indigo Bunting	X	X
Red-winged Blackbird	X	X
Rusty Blackbird	X	
Baltimore Oriole	X	
American Goldfinch	X	X
Eurasian Tree Sparrow N		X
Number of species	50	49

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

Table 10. Results of the 2004 fall migration season avian monitoring censuses conducted at the La Grange Wetland Banking Site, Brown County, Illinois. The values represent the combined totals 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.

Species	Census Point														Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Double-crested Cormorant	2														2
Great Blue Heron		1		3	5										9
Great Egret				40	15										55
Killdeer														1	1
Greater Yellowlegs														1	1
Red-bellied Woodpecker		1							2	2					5
Downy Woodpecker								1		2					3
Northern Flicker		1													1
Eastern Pheobe								1							1
Blue Jay								1							1
Black-capped Chickadee								2	3	2					7
White-breasted Nuthatch									1						1
Carolina Wren								1							1
House Wren						1									1
Ruby-crowned Kinglet								2		3					5
American Robin						1			1						2
Yellow-rumped Warbler								1							1
Black-throated Green Warbler								1							1
Common Yellowthroat	1				1						1				3
Yellow-breasted Chat											2				2
American Tree Sparrow						5									5
Song Sparrow	1				1	1					1				4
Lincoln Sparrow						1									1
Swamp Sparrow											2				2
White-throated Sparrow						2									2
White-crowned Sparrow						2									2
Northern Cardinal	1								2	1	1				5
Indigo Bunting						2		1			2				5
Red-winged Blackbird		60						1							61
Eurasian Tree Sparrow N						13									13
Total Individuals	5	63	0	43	22	28	NA	12	9	10	9	0	0	2	203
Total Species	4	4	0	2	4	9	NA	10	5	5	6	0	0	2	30

N=Non-native Species

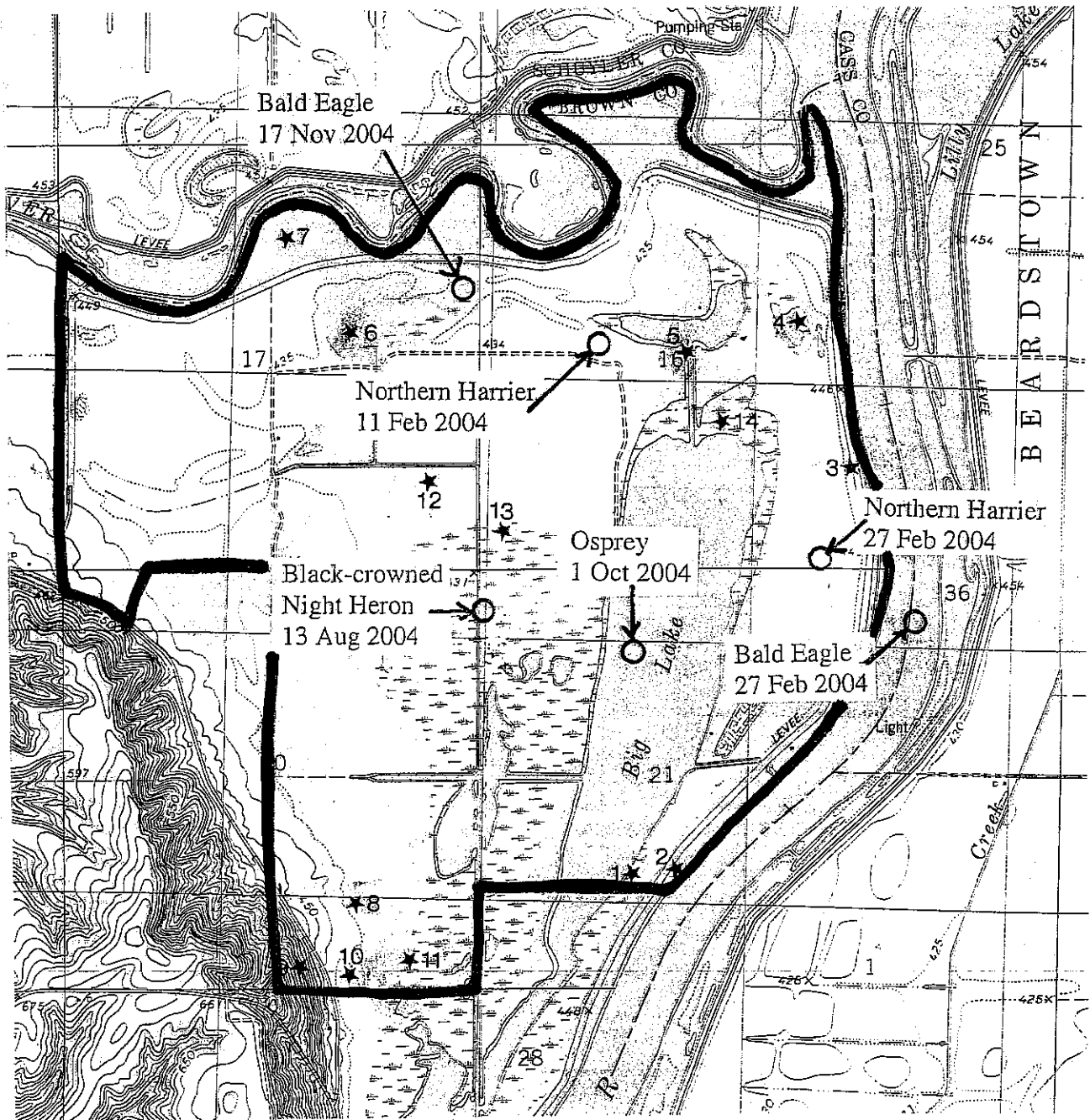


Figure 1. Location of the La Grange Wetland Bank project area, the census points used in the avian survey of the project area and sighting points of endangered and threatened bird species. The boundaries of the study area are highlighted in red.