

**Results of the 2006 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 in 2004, 2005 and 2006. This report contains the results of the 2006 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 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. 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, is no longer being 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 twenty four species representing 40 families have been recorded at the La Grange Wetland Banking Site during the five years (breeding 2000 and 2001, breeding and fall 2003 and all seasons 2004 through 2006) that surveys have been conducted (Table 2).

Winter Season:

Forty four species have been observed at the LGWBS during the three years (2004, 2005 and 2006) winter surveys have been conducted twenty eight of which were observed at the during the 2006 survey (Table 3). Seventy-eight individuals representing 13 species were recorded within 75 m of the census points (Table 4).

One Illinois and Federally threatened species, the Bald Eagle, and one Illinois endangered species, the Northern Harrier, were observed at the site during the winter survey.

Spring Season:

A total of 92 species have been observed at the LGWBS during the three years (2004, 2005 and 2006) spring surveys have been conducted, 54 of which were observed in 2006 (Table 5). One hundred ninety nine individuals representing 32 species were recorded within 75 m of census points (Table 6).

One Illinois and Federally threatened species, the Bald Eagle, and two Illinois endangered species, the American Bittern and the Northern Harrier, were observed at the site during the 2006 spring visits.

Breeding Season:

Twenty four species were observed at the site during the breeding season of which 19 were recorded during the timed censuses (Table 7 and 8). The site was very dry with standing water existing only in the ditch along the south dike. These conditions

most likely contributed to the low species count with wetland dependent species being absent.

No endangered or threatened species were recorded during the breeding season visits.

Fall Season:

A total of 77 species have been observed at the LGWBS during the 3 years (2004, 2005 and 2006) that fall surveys have been conducted (Table 9). Of these, 32 species were detected in 2006 with a total of 24 species being recorded during the timed censuses (Table 10).

One Illinois endangered species, the Northern Harrier, was observed foraging at various locations over the LGWBS.

Discussion

Water levels and percent of water coverage within the LGWBS was consistently low over the course of the year and Big Lake, which in previous years either wet or open mud flat, was completely dry and covered with tall dense vegetation.

Bald Eagles were not observed near the nest discovered on the La Moine River dike in November 2005. This nest will be monitored over the course of the next year. The Northern Harriers and American Bittern detected during the non-breeding seasons were either over wintering at or migrating through LGWBS.

Literature Cited

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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 five 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	Scientific name
<u>Anatidae</u>	<u>Anserinae</u>	Greater White-fronted Goose	<i>Anser albifrons</i>
		Snow Goose	<i>Chen caerulescens</i>
		Canada Goose	<i>Branta canadensis</i>
	<u>Anatinae</u>	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>
		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>	<u>Common Name</u>	<u>Scientific name</u>
<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>
		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>

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>Rallidae</u>		Sora WL	<i>Porzana carolina</i>
<u>Charadriidae</u>		Killdeer	<i>Charadrius vociferus</i>
<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>

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>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>
<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>

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>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>Tyranus 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>
<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>

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>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 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>Bombycillidae</u>			
		Cedar Waxwing	<i>Bombycilla cedrorum</i>
<u>Motacillidae</u>			
		American Pipit	<i>Anthus rubescens</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>

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>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>
<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 quisqualis</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, 2005 and 2006 winter season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

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

Table 3 concluded on following page.

**Table 3. List of bird species observed during the 2004 and 2005 winter season
(concluded).**

Common Name	2004	2005	2006
American Tree Sparrow	X		X
Field Sparrow			X
Fox Sparrow	X		
Song Sparrow	X		X
Swamp Sparrow	X		X
White-crowned Sparrow			X
Dark-eyed Junco	X		
Northern Cardinal	X		X
Red-winged Blackbird	X		X
American Goldfinch	X		X
Eurasian Tree Sparrow N	X		
Number of Species Per Year	35	11	28
Number of Species All Years	44		

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

Table 4. . Results of the 2006 winter season avian monitoring censuses conducted at the La Grange Wetland Banking Site, Brown County, Illinois. The values represent the total of the counts for the single census conducted at each census point. Counts for each species at each point are presented as well as the total count for each species.

Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Mourning Dove		3													3
Red-bellied Woodpecker		1													1
Downey Woodpecker		2						3	1						6
Northern Flicker								1							1
Black-capped Chickadee		2						3	1	2	1				9
White-breasted Nuthatch									1						1
American Robin								4							4
European Starling		5													5
American Tree Sparrow	3	1						20			1		5	3	33
Field Sparrow													1		1
Song Sparrow								1		3	3		1		8
Swamp Sparrow										2	1		1		4
White-crowned Sparrow	1												1		2
Total Individuals	4	14	0	0	0	0	0	32	3	7	6	0	9	3	78
Total Species	2	6	0	0	0	0	0	6	2	3	4	0	5	1	13

Table 5. List of bird species observed during all 2004, 2005 and 2006 spring season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

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

Table 5 continued on following page.

Table 5. List of bird species observed during the 2004, 2005 and 2006 spring season (continued).

Common Name	2004	2005	2006
Pectoral Sandpiper		X	
Wilson's Snipe	X	X	X
Bonaparte's Gull	X		
Ring-billed Gull			X
Herring Gull	X		
Mourning Dove	X	X	
Red-headed Woodpecker		X	X
Red-bellied Woodpecker	X	X	X
Downy Woodpecker	X		X
Hairy Woodpecker		X	
Northern Flicker	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
American Crow	X	X	X
Horned Lark		X	X
Tree Swallow	X	X	X
Northern Rough-winged Swallow		X	
Cliff Swallow		X	
Barn Swallow		X	
Black-capped Chickadee	X	X	X
Tufted Titmouse	X	X	X
White-breasted Nuthatch		X	X
Carolina Wren		X	X
House Wren		X	
Ruby-crowned Kinglet	X		
Blue-gray Gnatcatcher	X		
Eastern Bluebird	X		X
American Robin	X	X	X

Table 5 concluded on following page.

Table 5. List of bird species observed during the 2004, 2005 and 2006 spring season (concluded).

Common Name	2004	2005	2006
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
Swamp Sparrow	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
Eastern Meadowlark	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
Number of Species All Years	91		

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

Table 6. Results of the 2006 spring season avian monitoring censuses conducted at the La Grange Wetland Banking Site, Brown County, Illinois. The values represent the total of the counts for the single census conducted at each census point. Counts for each species at each point are presented as well as the total count for each species

Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Canada Goose		2													2
Mallard											5				5
Blue-winged Teal											5	2			7
Northern Shoveler											5				5
Green-winged Teal											10				10
American Coot					10										10
Killdeer			2		2										4
Wilson's Snipe					4										4
Red-headed Woodpecker									1						1
Downy Woodpecker		1								1					2
Northern Flicker		2						1							3
Pileated Woodpecker									1						1
Eastern Pheobe						1									1
Blue Jay		1				1		1			1				4
Horned Lark					2										2
Tree Swallow		1				4									5
Black-capped Chickadee										1	2				3
Tufted Titmouse								1							1
Carolina Wren		1							1						2
Eastern Bluebird													1		1
American Robin		2				1				1					4
European Starling		4						1							5
American Tree Sparrow												3			3
Chipping Sparrow		1													1
Song Sparrow	4	3				5		1			2	4	5	2	26
Swamp Sparrow						2							1		3
Northern Cardinal		1						1		2					4
Red-winged Blackbird	5	9	12	5	2	5		3		2	3	4	5	2	57
Eastern Meadowlark					1										1
Common Grackle		21													21
Brown-headed Cowbird						1									1
Total Individuals	9	49	14	5	21	20	0	9	3	7	33	13	12	4	199
Total Species	2	13	2	1	6	8	NA	7	3	5	8	4	4	2	32

Table 7. List of bird species observed during the 2000 through 2006 breeding season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2000	2001	2003	2004	2005	2006
Snow Goose	X					
Canada Goose	X	X	X	X	X	
Wood Duck				X	X	
Mallard	X	X	X	X	X	
Blue-winged Teal	X					
Northern Shoveler					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	X	
Great Egret	X	X	X	X	X	
Snowy Egret IT			X			
Green Heron	X	X		X		
Black-crowned Night Heron IT				X		
Turkey Vulture	X		X	X	X	X
Bald Eagle IT, FT	X				X	
Northern Harrier IE			X			
Red-tailed hawk	X					
Killdeer	X	X		X	X	
Greater Yellowlegs			X	X		
Lesser Yellowlegs	X			X		
Solitary Sandpiper		X		X	X	
Spotted Sandpiper	X			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	X	
Yellow-billed Cuckoo	X	X		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 through 2006 breeding season (continued).

Common Name	2000	2001	2003	2004	2005	2006
Ruby-throated Hummingbird		X				
Belted Kingfisher	X	X				
Red-headed Woodpecker	X	X		X	X	X
Red-bellied Woodpecker	X	X	X	X	X	X
Downy Woodpecker	X	X		X	X	X
Hairy Woodpecker		X				
Northern Flicker	X		X	X		
Eastern Wood-pewee	X	X	X	X	X	X
Eastern Pheobe	X		X			
Willow Flycatcher					X	
Great-crested Flycatcher	X	X			X	X
Eastern Kingbird	X		X	X	X	
Yellow-throated Vireo	X					
Warbling Vireo		X			X	X
Red-eyed Vireo	X	X				
Blue Jay	X	X	X	X	X	X
American Crow	X	X	X	X	X	X
Horned Lark	X	X	X			
Purple Martin					X	
Tree Swallow	X	X	X	X	X	X
Northern Rough-winged Swallow			X	X	X	
Bank Swallow	X			X		
Barn Swallow	X	X	X	X		
Black-capped Chickadee	X	X		X		X
Tufted Titmouse	X					
White-breasted Nuthatch	X	X	X			X
Carolina Wren	X	X		X	X	X
House Wren	X	X			X	X
Sedge Wren					X	
Black-gray Gnatcatcher	X					
Eastern Bluebird	X					
American Robin	X	X		X	X	X

Table 7. Concluded on following page.

Table 7. List of bird species observed during the 2000 through 2006 breeding season (concluded).

Common Name	2000	2001	2003	2004	2005	2006
Gray Catbird	X	X		X	X	X
European Starling N	X					
Cedar Waxwing	X					
American Pipit		X				
Prothonotary Warbler		X				
Common Yellowthroat	X	X	X	X	X	X
Yellow-breasted Chat		X			X	
American Tree Sparrow	X					
Song Sparrow	X	X	X	X	X	X
Northern Cardinal	X	X	X	X	X	X
Indigo Bunting	X	X	X	X	X	X
Dickcissel	X		X		X	
Bobolink				X		
Red-winged Blackbird	X	X	X	X	X	X
Eastern Meadowlark					X	
Common Grackle	X	X			X	X
Brown-headed Cowbird	X	X	X		X	X
Baltimore Oriole	X	X			X	
American Goldfinch	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
Number of Species All Years	86					

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

Table 8. Results of the 2006 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	
Yellow-billed Cuckoo			1						1	1					3
Red-headed Woodpecker								1							1
Red-bellied Woodpecker								2	1						3
Downy Woodpecker									1						1
Eastern Wood-pewee								1	1						2
Great Crested Flycatcher									1						1
Warbling Vireo			1							1					2
Blue Jay									2						2
Carolina Wren				1				1							2
House Wren								1							1
American Robin		1								2					3
Gray Catbird			1						1						2
Common Yellowthroat	2		1	1		1		2		2	1	1		1	12
Song Sparrow	1	1	2		1	1		1		1	1	2	2		13
Northern Cardinal								1	1	2	1				5
Indigo Bunting		1			1	2		1	1	1	2	1			10
Red-winged Blackbird	3			4	2	3		1		2	2		3	2	22
Common Grackle	1			2											3
Brown-headed Cowbird								2		2					4
Total Individuals	7	3	6	8	4	18	NA	14	10	14	7	4	5	3	92
Total Species	4	3	6	4	3	9	NA	11	9	9	5	3	2	2	19

N=Non-native Species

Table 9. List of bird species observed during the 2003, 2004, 2005 and 2006 fall migration season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2003	2004	2005	2006
Canada Goose		X	X	X
Wood Duck	X			
American Widgeon	X			
Mallard	X	X		X
Northern Shoveler	X			
Northern Pintail	X			
Green-winged Teal		X		
Lesser Scaup	X			
Rudy Duck	X			
Ring-necked Pheasant				X
American White Pelican	X	X		
Double-crested Cormorant	X	X		
Great Blue Heron	X	X	X	X
Great Egret	X	X		X
Turkey Vulture	X			
Osprey IE		X		
Bald Eagle IT, FT		X	X	
Northern Harrier IE	X	X	X	X
Red-tailed hawk	X	X		X
Sora WL	X			
Killdeer	X	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		X
Red-headed Woodpecker	X		X	
Red-bellied Woodpecker	X	X	X	
Downy Woodpecker	X	X	X	X
Northern Flicker	X	X		X

Table 9. continued on following page

Table 9. List of bird species observed during the 2003,2004, 2005 and 2006 fall migration season (Continued).

Common Name	2003	2004	2005	2006
Eastern Pheobe	X	X		
Warbling Vireo	X			
Blue Jay	X	X	X	X
American Crow	X	X	X	X
Horned Lark				X
Tree Swallow	X	X	X	X
Northern Rough-winged Swallow		X		
Barn Swallow		X		
Black-capped Chickadee	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
European Starling			X	X
American Pipit	X	X		
Yellow-rumped Warbler		X		X
Black-throated Green Warbler		X		
Palm Warbler		X		
Common Yellowthroat		X		
Yellow-breasted Chat		X		
American Tree Sparrow		X	X	X
Chipping Sparrow				X
Field sparrow	X			X
Savannah Sparrow		X		
Le Conte's Sparrow	X			
Fox Sparrow			X	X
Song Sparrow		X	X	
Lincoln Sparrow	X	X		
Swamp Sparrow	X	X	X	X
White-throated Sparrow	X	X	X	
White-crowned sparrow	X	X	X	X
Dark-eyed Junco			X	X

Table 9. concluded on following page.

Table 9. List of bird species observed during the 2003, 2004, 2005 and 2006 fall migration season (Concluded).

Common Name	2003	2004	2005	2006
Northern Cardinal	X	X		X
Rose-breasted Grosbeak	X			
Indigo Bunting	X	X		X
Red-winged Blackbird	X	X	X	X
Rusty Blackbird	X			
Baltimore Oriole	X			
American Goldfinch	X	X	X	X
Eurasian Tree Sparrow N		X		
Number of species Per Year	50	49	24	32
Number of Species All Years	77			

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

Table 10. Results of the 2006 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.

Census Point

Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Red-bellied Woodpecker			1						1						2
Downy Woodpecker		1				2		1	2	1					7
Northern Flicker						1		1	1						3
Empidonax sp.		1													1
Blue Jay										1	1				2
Horned Lark														2	2
Black-capped Chickadee		1				1			3	2					7
White-breasted Nuthatch									2						2
Carolina Wren								1	1	2					4
Golden-crowned Kinglet									1						1
American Robin								1	1	1					3
European Starling						1									1
Yellow-rumped Warbler						1									1
American Tree Sparrow						5						5			10
Field Sparrow		1				1									2
Fox Sparrow										1					1
Song Sparrow	5	1	2	2	4	4					2	3		1	24
Swamp Sparrow		2		1		1									4
White-crowned Sparrow	1	3				5						1			10
Dark-eyed Junco						2		1		4					7
Northern Cardinal		1						1			1				3
Indigo Bunting	1			1	1						1				4
Red-winged Blackbird	3	93		13	60	30		6						7	212
American Goldfinch						2									2
Total Individuals	10	104	3	17	65	56	NA	12	12	12	5	9	0	10	315
Total Species	4	9	2	4	3	13	NA	7	8	7	4	3	0	3	24

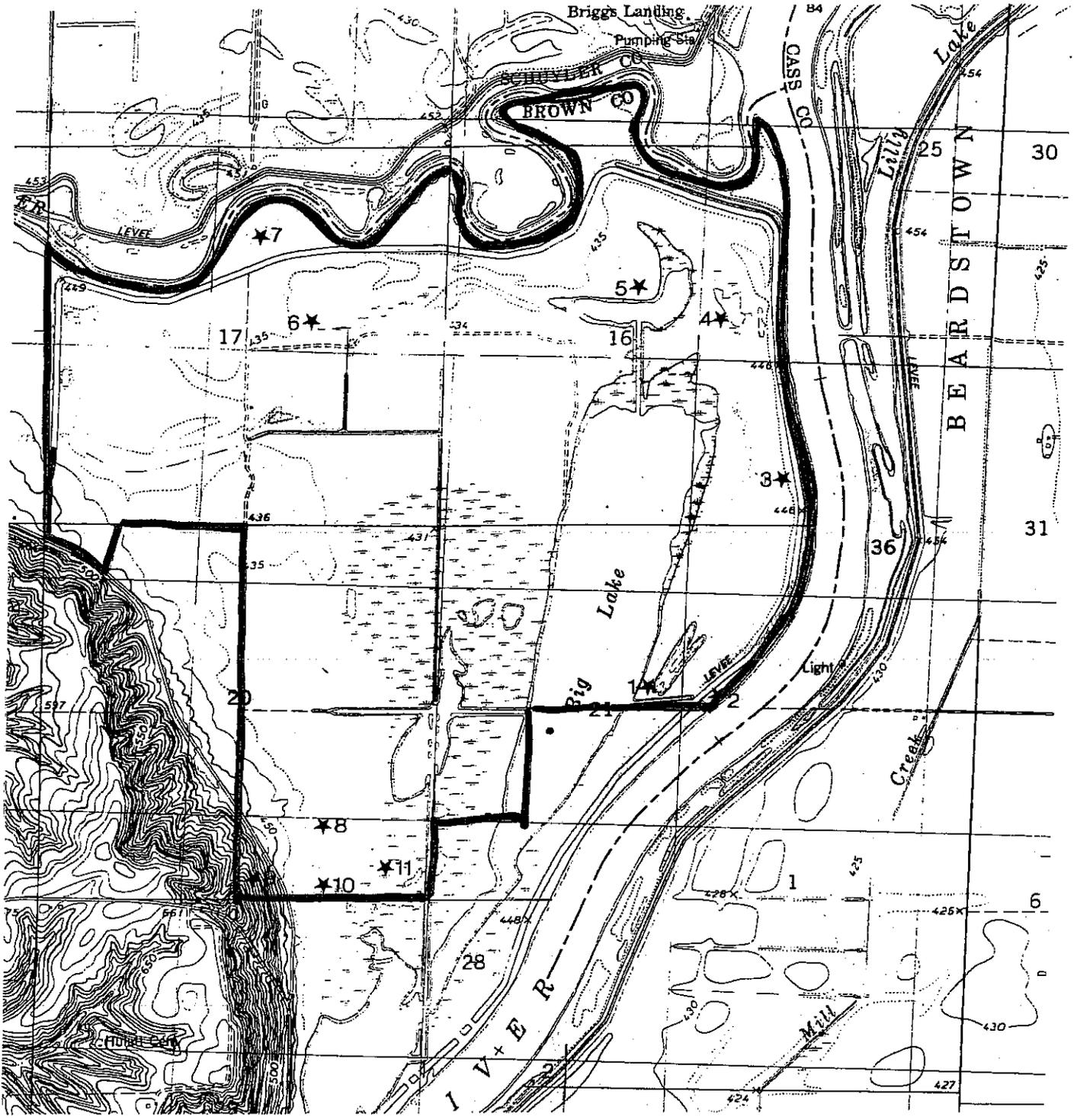


Figure 1. Location of the La Grange Wetland Bank Site project area, the census points used in the avian survey of the project area. The boundaries of the study area are highlighted in red.