

**Results of the 2007 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, 2006 and 2007. This report contains the results of the 2007 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 one species representing 41 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 2007) that surveys have been conducted (Table 2).

Winter Season:

The LGWBS was extensively flooded during the winter survey season and access to most of the site was impossible therefore no timed censuses were conducted. Forty four species have been observed at the LGWBS during the four years (2004, 2005, 2006 and 2007) winter surveys have been conducted nine of which were observed at the during the 2007 survey period (Table 3).

One Illinois and Federally threatened species, the Bald Eagle (1 adult and 1 juvenile), and one Illinois endangered species, the Northern Harrier, were observed at the site during the 2007 winter survey. The adult Eagle was observed perched near the established nest on the north edge of the site (Figure 1).

Spring Season:

The LGWBS was still extensively flooded during the spring migration survey season and access to most of the site was still impossible therefore no timed censuses were conducted. A total of 91 species have been observed at the LGWBS during the four years (2004, 2005, 2006 and 2007) spring surveys have been conducted, 26 of which were observed in 2007 (Table 4).

One Illinois and Federally threatened species, the Bald Eagle, was observed at the site during the 2006 spring visits. An adult Bald Eagle was observed sitting on the established nest during the 18 April visit (Figure 1).

Breeding Season:

Twenty-four species were observed at the site during the 2007 breeding season of which 19 were recorded during the timed censuses (Table 5 and 6). A total of 86 species have been observed at the LGWBS during the four years (2004, 2005, 2006 and 2007) breeding surveys have been conducted 49 of which were observed in 2007. In 2007 the site was extensively flooded in mid May and was very dry with standing water existing only in the ditch along the south dike by mid June. Thus, only one timed census was conducted ((13 June). These conditions most likely contributed to the low species count with wetland dependent species being absent.

One federally and Illinois threatened species, the Bald Eagle, was recorded flying over the site during the 13 June breeding season visits. No activity was observed near or on the established Eagle nest during the breeding season surveys.

Fall Season:

A total of 77 species have been observed at the LGWBS during the four years (2004, 2005, 2006 and 2007) that fall surveys have been conducted (Table 7). Of these, 42 species were detected in 2007 with a total of 28 species being recorded during the timed censuses (Table 8).

One Illinois endangered species, the Northern Harrier was observed foraging at various locations over the LGWBS. One Illinois and Federally threatened species, the Bald Eagle, was observed during the fall survey season. An adult Eagle was observed standing on the established nest and one juvenile Eagle was observed perched near the nest during the November visit (Figure 1).

Discussion

Water levels and percent of water coverage within the varied greatly in 2007. The site was extensively flooded from January to late May. Because of flooding, only one breeding season and two fall timed censuses were able to be conducted.

Bald Eagles nested at the site in 2007, however, no close observation of the established nest was possible due to high waters and thus there was no direct evidence breeding success. The presence of the Juvenile Eagle with the adult in November suggests that at least one offspring was produced.

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 six 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>
		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>
		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>	<u>Subfamily</u>	Common Name	<i>Scientific name</i>
<u>Falconidae</u>			
	Falconinae		
		American Kestrel	<i>Falco sparverius</i>
<u>Rallidae</u>			
		Sora WL	<i>Porzana Carolina</i>
		American Coot	<i>Fulica americana</i>
<u>Charadriidae</u>			
		Black-bellied Plover	<i>Pluvialis squatarola</i>
		Killdeer	<i>Charadrius vociferus</i>
<u>Scolopacidae</u>			
		Solitary Sandpiper	<i>Tringa solitaria</i>
		Spotted Sandpiper	<i>Actitis macularia</i>
		Greater Yellowlegs	<i>Tringa melanoleuca</i>
		Lesser Yellowlegs	<i>Tringa flavipes</i>
		Baird's Sandpiper	<i>Calidria bairdi</i>
		Least Sandpiper	<i>Calidris minutilla</i>
		Sanderling	<i>Calidris alba</i>
		Pectoral Sandpiper	<i>Caladris melanotos</i>
		Wilson's Snipe WL	<i>Gallinago gallinago</i>
		Wilson's Phalarope IE	<i>Phalaropus tricolor</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>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>
<u>Alcedinidae</u>	<u>Cerylinae</u>	Belted Kingfisher	<i>Ceryle alcyon</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>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>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>

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>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>
<u>Sturnidae</u>		European Starling N	<i>Sturnus vulgaris</i>
<u>Bombycillidae</u>		Cedar Waxwing	<i>Bombycilla cedrorum</i>
<u>Motacillidae</u>		American Pipit	<i>Anthus rubescens</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>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 2007 winter season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2004	2005	2006	2007
Greater White-fronted Goose	X	X		
Snow Goose	X	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	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	
Mourning Dove			X	
Red-bellied Woodpecker	X		X	
Downy Woodpecker	X		X	
Northern Flicker	X		X	
Blue Jay	X		X	
American Crow	X		X	X
Horned Lark	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	
European Starling N	X		X	

Table 3 concluded on following page.

Table 3. List of bird observed during the 2004 through 2007 winter season visits (concluded).

Common Name	2004	2005	2006	2007
American Tree Sparrow	X		X	X
Field Sparrow			X	
Fox Sparrow	X			
Song Sparrow	X		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	X
Eurasian Tree Sparrow N	X			
Number of Species Per Year	35	11	28	9
Number of Species All Years	44			

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

Table 4. List of bird species observed during all 2004 through 2007 spring season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2004	2005	2006	2007
Greater White-fronted Goose			X	X
Snow Goose	X		X	X
Canada Goose	X	X	X	X
Wood Duck	X	X	X	X
Gadwall			X	
American Widgeon	X	X	X	
Mallard	X	X	X	X
Blue-winged Teal	X	X	X	X
Northern Shoveler		X	X	X
Northern Pintail	X	X	X	
Green-winged Teal	X	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	X
Double-crested Cormorant	X	X	X	X
American Bittern IE			X	
Great Blue Heron	X	X	X	X
Green Heron		X		
Bald Eagle IT, FT		X	X	X
Northern Harrier IE	X		X	
Red-tailed Hawk	X	X		
Sora		X		
American Coot		X		X
Killdeer	X	X	X	X
Greater Yellowlegs	X		X	X
Lesser Yellowlegs	X	X		
Solitary Sandpiper		X		
Least Sandpiper		X	X	

Table 4 continued on following page.

Table 4. List of bird species observed during all 2004 through 2007 spring season visits (continued).

Common Name	2004	2005	2006	2007
Pectoral Sandpiper		X		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	X
Downy Woodpecker	X		X	
Hairy Woodpecker		X		
Northern Flicker	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
American Crow	X	X	X	
Horned Lark		X	X	X
Tree Swallow	X	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	X
White-breasted Nuthatch		X	X	
Carolina Wren		X	X	X
House Wren		X		
Ruby-crowned Kinglet	X			
Blue-gray Gnatcatcher	X			
Eastern Bluebird	X		X	
American Robin	X	X	X	

Table 4 concluded on following page.

Table 4. List of bird species observed during all 2004 through 2007 spring season visits (concluded).

Common Name	2004	2005	2006	2007
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
Swamp Sparrow	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
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	26
Number of Species All Years	91			

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

Table 5. List of bird species observed during the 2000 through 2007 breeding season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2000	2001	2003	2004	2005	2006	2007
Snow Goose	X						
Canada Goose	X	X	X	X	X		X
Wood Duck				X	X		X
Mallard	X	X	X	X	X		X
Blue-winged Teal	X						X
Northern Shoveler					X		
Green-winged Teal	X						
Northern Bobwhite	X			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		X
Great Egret	X	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	X
Bald Eagle							X
American Coot							X
Black-bellied Plover							X
Killdeer							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			X
Solitary Sandpiper		X		X	X		
Spotted Sandpiper	X			X	X		X
Sanderling							X
Least Sandpiper	X			X			X
Pectoral Sandpiper			X	X			
Wilson's Snipe	X						

Table 5. Continued on following page.

Table 5. List of bird species observed during the 2000 through 2007 breeding season visits (continued).

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

Table 5. Concluded on following page.

Table 5. List of bird species observed during the 2000 through 2007 breeding season visits (concluded).

Common Name	2000	2001	2003	2004	2005	2006	2007
Carolina Wren	X	X		X	X	X	
House Wren	X	X			X	X	X
Sedge Wren					X		X
Black-gray Gnatcatcher	X						
Eastern Bluebird	X						
American Robin	X	X		X	X	X	
Gray Catbird	X	X		X	X	X	X
European Starling N	X						X
Cedar Waxwing	X						
American Pipit		X					
Yellow Warbler							X
Prothonotary Warbler		X					
Common Yellowthroat	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
Northern Cardinal	X	X	X	X	X	X	X
Indigo Bunting	X	X	X	X	X	X	X
Dickcissel	X		X		X		X
Bobolink				X			
Red-winged Blackbird	X	X	X	X	X	X	X
Eastern Meadowlark					X		X
Common Grackle	X	X			X	X	X
Brown-headed Cowbird	X	X	X		X	X	X
Orchard Oriole							X
Baltimore Oriole	X	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	49
Number of Species All Years	86						

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

Table 6. Results of the 2007 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	8	9	10	11	12	13	14		
Mallard					1									1	
Great Blue Heron				3										3	
Killdeer										1	1		1	3	
Mourning Dove		1												1	
Red-headed Woodpecker								1						1	
Northern Flicker						1								1	
Eastern Wood-peewee		1					1							2	
Great-crested Flycatcher										1				1	
Warbling Vireo		1												1	
Red-eyed Vireo								1						1	
Blue Jay								1						1	
House Wren		1					1							2	
Gray Catbird		1					1		1					3	
Yellow Warbler										1				1	
Common Yellowthroat	4			1	2				2		1	2		12	
Song Sparrow	1	1	2			1	1			1	1	2		10	
Northern Cardinal								1	1					2	
Indigo Bunting	1	2	1		2	1	1	1	2	2	1	2		16	
Dickcissel						3					2			5	
Red-winged Blackbird	3	5	3	4	5	5	1		1	2	5	5	5	44	
Eastern Meadowlark											1			1	
Common Grackle		1				4								5	
Baltimore Oriole		1					1							2	
American goldfinch							1							1	
Total Individuals	9	15	6	8	10	15	8	5	7	8	12	11	6	120	
Total Species	4	10	3	3	4	6	8	5	5	6	7	4	2	24	

N=Non-native Species

Table 7. List of bird species observed during the 2003 through 2007 fall migration season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2003	2004	2005	2006	2007
Canada Goose		X	X	X	X
Wood Duck	X				
American Widgeon	X				
Mallard	X	X		X	X
Northern Shoveler	X				X
Northern Pintail	X				X
Green-winged Teal		X			
Lesser Scaup	X				
Rudy Duck	X				X
Ring-necked Pheasant				X	
Northern Bobwhite					X
Pied-billed Grebe					X
American White Pelican	X	X			
Double-crested Cormorant	X	X			
Great Blue Heron	X	X	X	X	X
Great Egret	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
Red-tailed hawk	X	X		X	X
Sora WL	X				X
American Coot					
Killdeer	X	X	X		
Greater Yellowlegs	X	X			
Lesser Yellowlegs	X				
Baird's Sandpiper	X				
Pectoral Sandpiper	X	X			
Wilson's Snipe WL					X
Phalarope sp.	X				
Ring-billed Gull	X				X
Herring Gull		X			
Mourning Dove	X				X
Yellow-billed Cuckoo	X				

Table 7. continued on following page

Table 7. List of bird species observed during the 2003 through 2007 fall migration seasons (Continued).

Common Name	2003	2004	2005	2006	2007
Chimney Swift		X		X	
Ruby-throated Hummingbird					X
Red-headed Woodpecker	X		X		
Red-bellied Woodpecker	X	X	X		X
Downy Woodpecker	X	X	X	X	X
Northern Flicker	X	X		X	X
Eastern Wood-pewee					X
Eastern Pheobe	X	X			
Warbling Vireo	X				
Blue Jay	X	X	X	X	X
American Crow	X	X	X	X	X
Horned Lark				X	
Tree Swallow	X	X	X	X	X
Northern Rough-winged Swallow		X			
Barn Swallow		X			
Black-capped Chickadee	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
Gray Catbird					X
European Starling			X	X	X
American Pipit	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
Chipping Sparrow				X	
Field sparrow	X			X	
Savannah Sparrow		X			

Table 7. concluded on following page.

Table 7. List of bird species observed during the 2003 through 2007 fall migration seasons (Concluded).

Common Name	2003	2004	2005	2006	2007
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
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
Rusty Blackbird	X				
Baltimore Oriole	X				
American Goldfinch	X	X	X	X	X
Eurasian Tree Sparrow N		X			
Number of species Per Year	50	49	24	32	42
Number of Species All Years	77				

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

Table 8. Results of the 2007 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													
	1	2	3	4	5	6	8	9	10	11	12	13	14	Total
Red-winged Blackbird	1	4									1			6
Song Sparrow	1	1								2		4	1	9
American Coot													10	10
Northern Flicker						1								1
Swamp Sparrow			2	2		2						2		8
Indigo Bunting							1							1
American Goldfinch							2			1				3
Eastern Wood-pewee							1							1
Red-bellied Woodpecker							1							1
Palm Warbler							1							1
Common Yellowthroat									1					1
Gray Catbird									1					1
Blue Jay								1	1					2
White-crowned Sparrow	3	1				3						5		12
Bald Eagle		2												2
European Starling		1												1
Northern Bobwhite		1												1
American Robin		1												1
American Tree Sparrow		3												3
Downy Woodpecker		1						1						2
American Kestrel						2								2
Fox Sparrow						3				2				5
Mallard											1	8		9
Red-tailed Hawk												1		1
Great Blue Heron												1		1
Black-capped Chickadee							1							1
White-throated Sparrow										3				3
Dark-eyed Junco										2				2
Total Individuals	5	15	2	2	0	11	7	2	3	10	2	21	11	91
Total Species	3	9	1	1	0	5	6	2	3	5	2	6	2	28

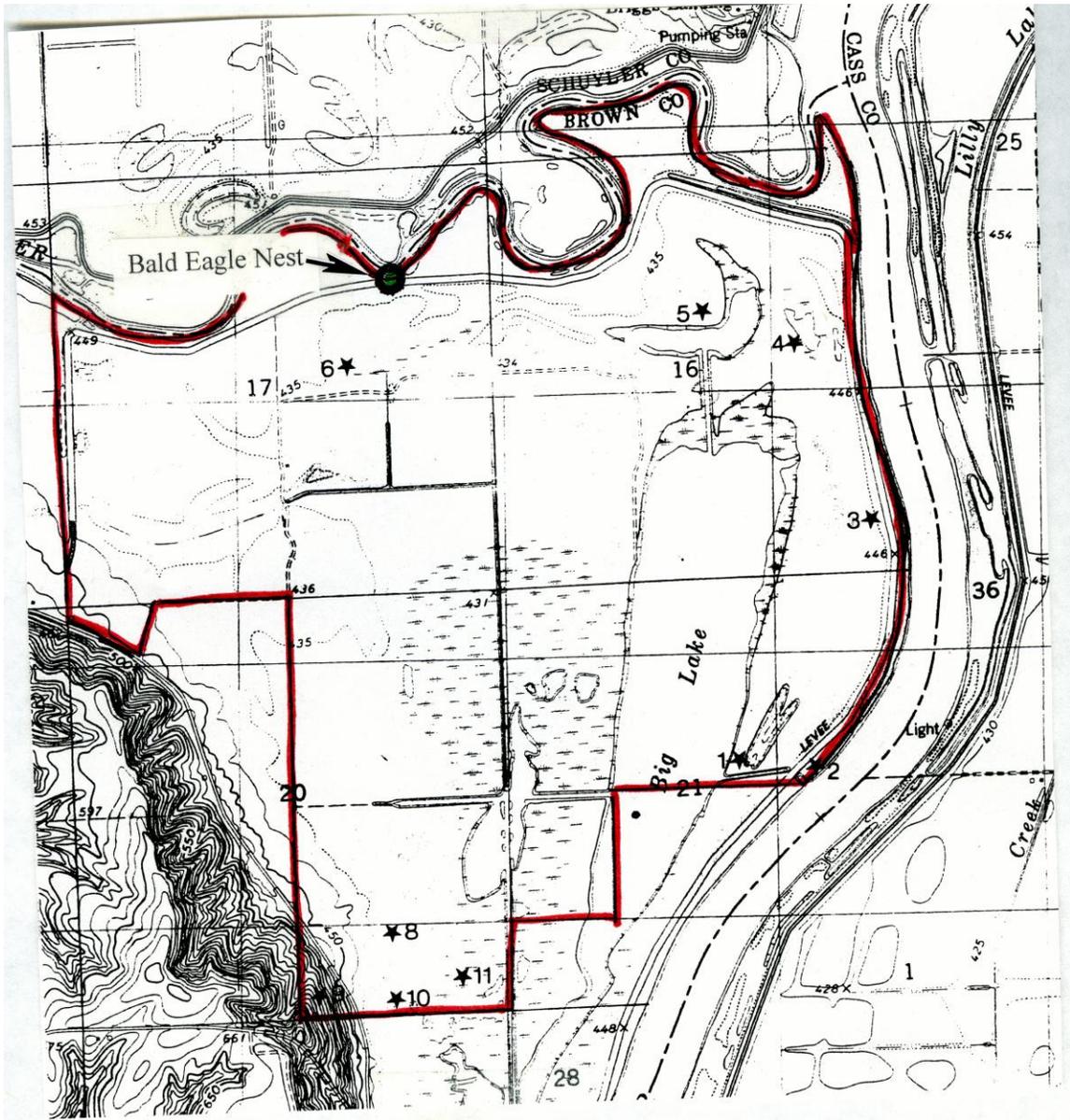


Figure 1. Location of the La Grange Wetland Bank Site project area, the census points

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.