



**ILLINOIS NATURAL
HISTORY SURVEY**
PRAIRIE RESEARCH INSTITUTE

**Results of the 2012-2013 Four Seasons Avian Monitoring
Surveys Conducted at the LaGrange Wetland Banking Site,
Brown County, Illinois: IDOT BDE seq. no. 9579**

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Introduction

On 22 February 2000, the Illinois Department of Transportation (IDOT) requested that we monitor the avian fauna within the proposed Brown County Wetland Banking Site. We were asked to perform a Level 2 Wildlife Assessment as described in the Illinois Wetland Restoration and Creation Guide (Admiraal et al. 1997). Breeding season censuses at the banking site were to be conducted for five consecutive years. Reports detailing the first two years, 2000 and 2001, of monitoring were forwarded to IDOT on 5 January 2001 and 8 April 2002 respectively. In June 2002, IDOT instructed us to stop monitoring this site until further notice.

On 4 August 2003, IDOT tasked us to resume monitoring the avian fauna at this site, renamed the La Grange Wetland Banking Site (LGWBS), and to continue these surveys, expanded to include the spring and fall migration and winter seasons, at least until 2008 with annual reports due in March of each year. Because tasking was not received until June 2003, only the 2003 breeding and fall migration seasons were completed before the March report deadline. A four-season survey was conducted at the site each year since 2004. In 2008, the four-season bird survey tasking was extended through March 2013. This report contains the cumulative species lists by season as well as the specific results of the 2012-13 surveys. Steve Amundsen retired from his position and on June 1, 2010 the tasking was transferred to Wendy Schelsky.

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 old field. Planted trees had nearly zero survival as a result of above average flooding in the years following the planting (Plocher et al. 2010). In 2011-2012, new raised gravel roads were added, areas were re-graded to maintain low-lying wet areas and hundreds of new wetland tree species were planted throughout the site. 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 previously (SBA) 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) (SBA). Three additional survey points were added to the original eleven in 2003 (Figure 1 and Table 1) (SBA). 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.

I 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 both the species list for the project (Table 2), and the seasonal species lists (Tables 3, 4, 6, and 7). I 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.

Additional species seen by qualified birders were added to the various seasonal lists to supplement the pulsed nature of migrations where huge numbers of ducks and shorebirds are easily missed if the timing of surveys is not quite right.

Results

One hundred sixty-four species representing 43 families have been recorded at the La Grange Wetland Banking Site since we were tasked to conduct avian surveys at this site (breeding 2000 and 2001, breeding and fall 2003 and all seasons 2004 through 2012) (Table 2). The LGWBS was accessible by car and foot throughout the year on the newly established road during the winter surveys. Access beyond the roadway was limited as a result of either the muddy conditions in early spring or extremely thick, tall vegetation (> 5 ft) throughout much of the site during the breeding season, therefore a limited number of timed censuses were conducted.

Winter Season

I conducted surveys on January 9, and February 19, 2013. Fifty-eight species have been observed at the LGWBS during the eight years (2004 through 2012) winter surveys have been conducted. Thirty-five species including four new winter records, the American Kestrel, Barred Owl, Cedar Waxwing, and Eastern Meadowlark, were observed at the site during the 2012 survey period (Table 3).

Two Illinois Endangered species, the Northern Harrier (6 Adults and 5 Juveniles), and Short-eared Owl (1 individual) were observed throughout the site foraging over old field habitat on both winter surveys combined. Bald Eagles were present at the site in winter. I counted a total of two adults and one juvenile Bald Eagle along the levy by the river. The established Bald Eagle nest was noticeably unattended during the late winter months. In past years, adults were seen sitting in the nest or nearby in January and February, however the severe drought of 2012 has greatly reduced the water levels throughout the site and the eagles may be spending more time along the river.

Spring Season

The LGWBS was accessible by the main road during the spring, however recent rains made many of the census points inaccessible. I conducted the two spring surveys on April 13, and April 29, 2012. A total of 108 species have been observed at the LGWBS during the eight years (2004

through 2012) spring surveys have been conducted, 54 of which were observed in 2012. A total of seven new species for the spring migration surveys were documented at the site including Eastern Wood-Pewee, Cedar Waxwing, Prothonotary Warbler, Eastern Towhee, Field Sparrow, Grasshopper Sparrow, and LeConte's Sparrow (Table 4). Many of these were also recorded during the breeding season and were probably early arriving migrants that later bred at the site. Three species, Prothonotary Warbler, LeConte's Sparrow and Grasshopper Sparrow are all listed as "Species in greatest need of conservation for Illinois (SGNCI)" in The Illinois Comprehensive Wildlife Conservation Plan & Strategy (2005).

There were no threatened or endangered species (federally or state) documented at the site during spring migration. A total of two adult Bald Eagles, both of which were situated near the existing nest (Figure 1), and one juvenile were seen at the site.

Breeding Season

Unlike the 2011 breeding season when the LGWBS was extensively flooded, the 2012 breeding season was a record drought year with a warmer than average spring. These two factors combined resulted in significantly less soil moisture and less standing water at the LBGWBS throughout the breeding season. In addition, severe fish kills were evident on July 7, 2012 when the lake was approximately half the size it had been in previous summers.

Point counts were conducted on July 7 at eight of the 13 established points (Table 5), however not all points were accessible as a result of extremely dense grassland vegetation that made accessing points without disturbing breeding birds impossible. A total of 116 species have been observed at the LGWBS during the eight years (2004 through 2012) since breeding surveys have been conducted 52 of which were observed in 2012 surveys. Five new species, two of which are considered species in greatest need of conservation for Illinois (SGNCI), were added to the breeding season list including Red-shouldered Hawk (SGNCI), American Kestrel, Chimney Swift, Pileated Woodpecker, and Grasshopper Sparrow (SGNCI). In the case of the Grasshopper Sparrow, multiple individuals were encountered during late Spring and mid-breeding season and may be newly breeding at the site (Table 6).

Unlike the last few years at the site, in 2012 there were no Bald Eagles seen during breeding season and there was no detectable activity at the eagle's nest.

Fall Season (WMS):

A total of 96 species have been observed at the LGWBS during the eight years (2004 through 2012) that fall surveys have been conducted (Table 7). Of these, 42 species were detected in 2012 during the two visits (Sep 26 and Nov 16).

Three Illinois State threatened species, Northern Harrier, Short-eared Owl, and Bewick's Wren, were observed during the fall migration season surveys. A total of two juvenile Northern Harriers were seen on November 16, 2012, and several more were detected by Keith Carr on November 7, 2012. There were a total of five Short-eared Owls detected at the site during fall 2012, one seen on November 16, 2012 and an additional four were seen by Keith Carr on November 7, 2012. One Bewick's Wren was seen on September 26, 2012 in dense scrubby habitat amongst a

mixed-species flock of migrant passerines. Of all the state endangered species detected in the fall season, none were detected during the breeding season and all are suspected to be migrants.

Two Bald Eagles of unknown age were seen at the site on November 7, 2012 by Keith Carr near the established nest.

Discussion

One hundred sixty-four species representing 43 families have been recorded at the La Grange Wetland Banking Site since surveys were tasked in 2001. A total of 93 species were recorded during the 2012-2013 survey. Seven new species were added to the cumulative list in 2012 including one Illinois State Endangered species, the Bewick's Wren, and one Species in Greatest Need of Conservation in Illinois, the Grasshopper Sparrow. The Bewick's Wren was one individual seen during fall migration and was not likely breeding at the site. The Grasshopper Sparrows, however, included several individuals detected during two separate surveys, one of which was late in the breeding season, and could represent breeding males.

In 2012, from January through July the average statewide temperatures were 5.5°F above normal and statewide precipitation was 9.82 inches below normal resulting in the warmest spring/summer and the third driest on record in Illinois (Illinois State Water Survey 2012). In fact, the LGWBS, located in Brown County, was the location of a drought hotspot and experienced a 14-inch rainfall deficit (the most extreme in Illinois) between January and August 2012 resulting in extreme drought conditions (Illinois State Water Survey 2012). The net result was that water levels at LGWBS were at the lowest I have ever seen them since 2010 with the large lake drying up completely in late July and early August. On July 7, 2012 a large number of dead fish were floating in the remaining part of the lake and being fed on by several Great Blue Herons and Great Egrets. By August 20, 2012, there was no detectable water at the site and virtually no wetland associated species were seen until some dabbling ducks returned in late fall.

New grading and road development by Illinois Department of Transportation late in 2011 provided more consistent access by car throughout the LGWBS. Construction to re-grade areas and develop the road, however, resulted in reduced old field habitat in fall and winter in 2011, which reduced the numbers of sparrows and other old field species that year. This change in vegetation structure may have reduced the attractiveness of the habitat to some species such as Short-eared Owls that were documented in the 2010-11 season, but were absent in the 2011-2012 season. In 2012, several Short-eared Owls were seen again at the site in both fall and winter survey periods. Overall, the old field habitat had significantly more structure in 2012 than it did in 2011. Although very dry, the site did provide significant breeding and stopover habitat for many grassland species including a number of Species in Greatest Need of Conservation in Illinois including thousands of breeding Dickcissel, and several breeding Grasshopper Sparrows, as well as migrant LeConte's Sparrow, Northern Harrier (Illinois Endangered), Short-eared Owl (Illinois Endangered), and Bewick's Wren (Illinois Endangered).

Bald Eagles were noticeably absent from the site during the breeding season. Several adult eagles were present near the established nest on April 13, 2012, however, they were not seen at the site again until late fall, when water began returning to the site. It is not clear whether the pair attempted to breed at the site or not because there was no direct observation of an incubating female or offspring in the nest. If the pair attempted to breed, this attempt was unsuccessful because they would have eventually been feeding large nestlings that would be visible to an observer. Although unknown, it is possible that the pair bred elsewhere, perhaps closer to foraging locations on the river. During low water events, such as the drought of 2012, Bald Eagles may have better foraging success on rivers than they might in higher water years (Brown et al. 1998) and better foraging than

was available at the LGWBS. There have been more adult and juvenile eagles present in winter 2013, however it is too early to tell whether they will return to the site for breeding in 2013.

Efforts have been underway to promote wetland restoration at the LGWBS since 2001. The expected wetland habitats of marsh, scrub-shrub, and forested wetland at this site have been slow to develop despite significant efforts to encourage wetland habitat formation. The site, formerly in agriculture in 2001, has been modified to promote annual inundation by removing pumps and drainage tiles and has been monitored intermittently for hydrology (Pociask et al. 2005, Miner et al. 2011) and wetland vegetation (Plocher et al. 2010) since its creation. In 2010 and 2011 above average precipitation caused extended periods of flooding during the growing season. Plocher et al. (2010) claimed that these severe flood events have been significant enough to set back vegetation to an earlier successional stage than what might be expected after 10 years of restoration efforts. In some wetlands, wetland plant diversity is best promoted through short frequent floods and can be reduced through longer durations of flooding (Casanova & Brock 2000). In contrast, an increase in the frequencies of droughts, such as the one experienced in 2012 and those expected to come with global climate change, can also cause dramatic declines of wetland plant diversity and ecosystem function and result in disappearance of some wetlands altogether (Erwin 2009).

Because of the set back of wetland vegetation from the large floods of 2010-2011 and the extreme drought conditions in 2012, many of the expected breeding marsh birds and forested wetland species, such as herons, egrets, bitterns, and night-herons have been absent from the site since 2004. Despite the lack of wetland vegetation for breeding wetland birds, the drought event created good habitat for many grassland species and has resulted in significant numbers of grassland/shrubland species in greatest need of conservation in Illinois including Dickcissel, Grasshopper Sparrow, Brown Thrasher, LeConte's Sparrow, and Illinois Endangered, Short-eared Owl, Northern Harrier, and Bewick's Wren. In 2012, the LGWBS had thousands of breeding Dickcissels which is the highest density that I have ever seen, and surveys during late summer suggested that breeding success was relatively high because of the extremely large numbers of juvenile Dickcissels seen at the site.

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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	Old Field/Second Growth	Brown Co., IL; T 18 N, R 1W; Section 21, NW/4, NE/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 712,300mE 4,427,200mN
4	Marsh	Brown Co., IL; T 18 N, R 1W; Section 16, SE/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 712,750mE 4,428,200mN
5	Marsh	Brown Co., IL; T 18 N, R 1W; Section 16, SW/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 711,775mE 4,428,750mN
6	Marsh	Brown Co., IL; T 18 N, R 1W; Section 17, SE/4, SW/4, NE/4; Cooperstown, IL 7.5' series USGS topographic quadrangle map. UTM Zone 15 710,500mE 4,42,175mN

Table 1 continued on following page.

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

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

Table 1 concluded on following page.

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

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

Table 2. Cumulative list of bird species observed during seven years of monitoring visits conducted at the La Grange Wetland Banking study site, Brown County, Illinois. Nomenclature and taxonomic order from American Ornithologists' Union Check-list of North American Birds, 7th Edition, 2012 and Banks (2003, 2004 & 2011). **IE** = Illinois Endangered, **IT** = Illinois Threatened, **N** = non-native, **§** = Species in greatest need of conservation in Illinois.

<u>Family</u>	<u>Subfamily</u>	Common Name	Scientific name
Anatidae			
	Anserinae		
		Greater White-fronted Goose	<i>Anser albifrons</i>
		Snow Goose	<i>Chen caerulescens</i>
		Canada Goose	<i>Branta Canadensis</i>
		Trumpeter Swan §	<i>Cygnus buccinators</i>
		Tundra Swan	<i>Cygnus columbianus</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>
		Canvasback §	<i>Aythya valisineria</i>
		Redhead	<i>Aythya americana</i>
		Ring-necked Duck	<i>Aythya collaris</i>
		Lesser Scaup §	<i>Aythya affinis</i>
		Bufflehead	<i>Bucephala albeola</i>
		Hooded Merganser §	<i>Lophodytes cucullatus</i>
		Common Merganser	<i>Lothodyytes merganser</i>
		Ruddy Duck	<i>Oxyura jamaicensis</i>
	Odontophoridae		
		Northern Bobwhite §	<i>Colinus virginianus</i>
	Podicipedidae		
		Pied-billed Grebe §	<i>Podilymbus podiceps</i>

Table 2. List of bird species (continued).

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

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>
		Semipalmated Plover	<i>Charadrius semipalmatus</i>
		Killdeer	<i>Charadrius vociferous</i>
<u>Recurvirostridae</u>			
		Black-necked Stilt	<i>Himantopus mexicanus</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>
		Upland Sandpiper IE, §	<i>Bartramia longicauda</i>
		Baird's Sandpiper	<i>Calidria bairdi</i>
		Least Sandpiper	<i>Calidris minutilla</i>
		White-rumped Sandpiper	<i>Calidris fuscicollis</i>
		Sanderling	<i>Calidris alba</i>
		Semipalmated Sandpiper	<i>Calidris pusilla</i>
		Pectoral Sandpiper	<i>Caladris melanotos</i>
		Buff-breasted Sandpiper §	<i>Tryngites subruficollis</i>
		Wilson's Snipe WL, §	<i>Gallinago gallinago</i>
		Wilson's Phalarope IE, §	<i>Phalaropus tricolor</i>

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>
		Black Tern §	<i>Chlidonias niger</i>
		Common Tern §	<i>Sterna hirundo</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>
		Short-eared Owl IE, §	<i>Asio Flammeus</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. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	Common Name	<i>Scientific name</i>
<u>Picidae</u>	Picinae	Red-headed Woodpecker §	<i>Melanerpes erythrocephalus</i>
		Red-bellied Woodpecker	<i>Melanerpes carolinus</i>
		Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>
		Downy Woodpecker	<i>Picoides pubescens</i>
		Hairy Woodpecker	<i>Picoides villosus</i>
		Northern Flicker §	<i>Colaptes auratus</i>
		Pileated Woodpecker	<i>Dryocopus pileatus</i>
<u>Tyranidae</u>	Fluvicolinae	Eastern Wood-pewee	<i>Contopus virens</i>
		Eastern Phoebe	<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>

Table 2. List of bird species (continued).

<u>Family</u>	<u>Subfamily</u>	<u>Common Name</u>	<u>Scientific name</u>
<u>Alaudidae</u>			
		Horned Lark	<i>Eremophila alpestris</i>
<u>Hirundinidae</u>			
		Purple Martin	<i>Progne subis</i>
		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>			
		House Wren	<i>Troglodytes aedon</i>
		Carolina Wren	<i>Thryothorus ludovicianus</i>
		Bewick's Wren IE	<i>Thryomanes bewickii</i>
		Sedge Wren	<i>Cistothorus platensis</i>
<u>Regulidae</u>			
		Ruby-crowned Kinglet	<i>Regulus calendula</i>

Table 2. List of bird species (continued).

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

Table 2. 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>
		Northern Waterthrush	<i>Seiurus noveboracensis</i>
		Prothonotary Warbler §	<i>Protonotaria citrea</i>
		Nashville Warbler	<i>Oreothlypis ruficapilla</i>
		Common Yellowthroat	<i>Geothlypis trichas</i>
		Yellow-breasted Chat §	<i>Icteria virens</i>
<u>Emberizidae</u>			
		Eastern Towhee	<i>Pipilo erythrophthalmus</i>
		American Tree Sparrow	<i>Spizella arborea</i>
		Field Sparrow §	<i>Spizella pusila</i>
		Lark Sparrow	<i>Chondestes grammacus</i>
		Savannah Sparrow §	<i>Passerculus sandwichensis</i>
		Grasshopper Sparrow §	<i>Ammodramus savannarum</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 lincolni</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>
		Blue Grosbeak	<i>Passerina caerulea</i>
		Dickcissel §	<i>Spiza americana</i>

Table 2. List of bird species (concluded).

<u>Family</u>	Subfamily	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>		House Finch	<i>Haemorhous mexicanus</i>
		American Goldfinch	<i>Spinus tristis</i>
<u>Passeridae</u>		Eurasian Tree Sparrow N	<i>Passer montanus</i>
		House Sparrow N	<i>Passer domesticus</i>

Common Name (Table 3 cont.)	2004	2005	2006	2007	2008	2009	2010	2011	2012
American Goldfinch	X		X	X	X		X	X	X
Eurasian Tree Sparrow N	X								
Number of Species Per Year	35	11	28	9	6	13	30	29	35
Number of Species All Years	58								

IE=Illinois Endangered; IT=Illinois Threatened; FT=Federally Threatened; N=Non-native species, § = Species in greatest need of conservation in Illinois

Table 4. List of bird species observed during all 2004 through 2012 spring season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2004	2005	2006	2007	2008	2009	2010	2011	2012
Greater White-fronted Goose			X	X	X		X		
Snow Goose	X		X	X				X	
Canada Goose	X	X	X	X	X	X	X	X	X
Wood Duck	X	X	X	X	X	X	X	X	X
Gadwall			X			X	X	X	
American Widgeon	X	X	X		X		X		
Mallard	X	X	X	X	X		X	X	X
Blue-winged Teal	X	X	X	X	X		X	X	X
Northern Shoveler		X	X	X	X		X	X	X
Northern Pintail	X	X	X				X	X	
Green-winged Teal	X	X	X	X	X		X	X	X
Canvasback §								X	
Redhead		X							
Ring-necked Duck			X			X	X	X	
Lesser Scaup §					X		X	X	
Bufflehead	X		X					X	
Hooded Merganser §	X	X							
Common Merganser		X			X				
Ruddy Duck	X	X	X				X	X	X
Wild Turkey			X						

Common Name (Table 4 cont.)	2004	2005	2006	2007	2008	2009	2010	2011	2012
Northern Bobwhite §	X								
Pied-billed Grebe §		X			X	X	X	X	
American White Pelican			X	X	X		X	X	
Double-crested Cormorant	X	X	X	X	X	X	X	X	
American Bittern IE, §			X						
Great Blue Heron	X	X	X	X		X	X	X	X
Green Heron		X							
Turkey Vulture								X	X
Bald Eagle §		X	X	X	X	X	X	X	X
Northern Harrier IE, §	X		X		X		X		
Red-tailed Hawk	X	X						X	
Sora		X							
American Coot		X		X	X	X	X	X	
Killdeer	X	X	X	X	X		X	X	X
Greater Yellowlegs §	X		X	X	X		X	X	
Lesser Yellowlegs	X	X			X		X	X	X
Solitary Sandpiper		X							
Spotted Sandpiper								X	
Least Sandpiper		X	X						
Pectoral Sandpiper		X		X	X		X		X
Wilson's Snipe §	X	X	X					X	X
Bonaparte's Gull	X							X	
Ring-billed Gull			X		X	X			
Herring Gull	X								
Mourning Dove	X	X						X	X
Belted Kingfisher						X	X	X	
Red-headed Woodpecker §		X	X		X				
Red-bellied Woodpecker	X	X	X	X	X			X	X
Downy Woodpecker	X		X					X	X

Common Name (Table 4 cont.)	2004	2005	2006	2007	2008	2009	2010	2011	2012
Hairy Woodpecker		X						X	
Northern Flicker §	X	X	X	X		X			X
Pileated Woodpecker	X		X						X
Eastern Wood-Pewee									X
Eastern Phoebe		X	X				X	X	
Great Crested Flycatcher		X							X
Eastern Kingbird		X						X	X
Yellow-throated Vireo		X							X
Warbling Vireo		X							X
Red-eyed Vireo		X							
Blue Jay	X	X	X	X	X			X	X
American Crow	X	X	X					X	X
Horned Lark		X	X	X	X				
Tree Swallow	X	X	X	X	X		X	X	X
Northern Rough-winged Swallow		X					X	X	X
Cliff Swallow		X							X
Barn Swallow		X						X	X
Purple Martin								X	
Black-capped Chickadee	X	X	X		X			X	X
Tufted Titmouse	X	X	X	X	X				X
White-breasted Nuthatch		X	X						
Carolina Wren		X	X	X	X				
House Wren		X							
Ruby-crowned Kinglet	X				X			X	
Blue-gray Gnatcatcher	X								
Eastern Bluebird	X		X					X	
American Robin	X	X	X		X	X		X	X
Northern Mockingbird					X				

Common Name (Table 4 cont.)	2004	2005	2006	2007	2008	2009	2010	2011	2012
Brown Thrasher §						X		X	
European Starling N	X	X	X						
Cedar Waxwing									X
American Pipit		X						X	
Northern Parula		X							
Yellow Warbler		X							
Prothonotary Warbler §									X
Northern Waterthrush		X							
Common Yellowthroat		X						X	X
Northern Cardinal	X	X	X				X	X	X
Indigo Bunting								X	X
Dickcissel §								X	X
Eastern Towhee									X
American Tree Sparrow	X		X					X	
Field Sparrow §									X
Chipping Sparrow			X						
Grasshopper Sparrow §									X
Le Conte's Sparrow §									X
Savannah Sparrow §	X	X						X	X
Fox Sparrow	X								
Song Sparrow	X	X	X	X	X	X	X	X	X
Swamp Sparrow	X		X	X	X				X
White-throated Sparrow		X							X
White-crowned Sparrow	X	X	X					X	X
Lark Sparrow								X	
Dark-eyed Junco	X							X	
Red-winged Blackbird	X	X	X	X	X	X	X	X	X
Eastern Meadowlark	X	X	X			X	X	X	X
Common Grackle	X	X	X					X	X

Common Name (Table 4 cont.)	2004	2005	2006	2007	2008	2009	2010	2011	2012
Brown-headed Cowbird	X	X	X				X	X	X
House Finch	X								
American Goldfinch	X	X	X					X	X
Eurasian Tree Sparrow N	X								
Number of Species Per Year	52	66	54	26	35	17	33	61	54
Number of Species All Years	108								

IE = Illinois Endangered; IT= Illinois Threatened; FT = Federally Threatened; N = non-native, § = Species in greatest need of conservation in Illinois

Eastern Meadowlark		1		1						2
Red-winged Blackbird	1	1	6	1	2		1			12
Common Grackle						1				1
American Goldfinch				1			1		1	3
Total Individuals	7	10	19	6	8	13	6	7	9	86
Total Species	6	9	9	6	7	11	6	7	9	30

Table 6. List of bird species observed during the 2000 through 2012 breeding season visits to the La Grange Wetland Banking Site, Brown County, Illinois.

Common Name	2000	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
White-fronted Goose											X	
Snow Goose	X											
Canada Goose	X	X	X	X	X		X		X	X	X	
Tundra Swan											X	
Wood Duck				X	X		X	X				
Mallard	X	X	X	X	X		X	X	X	X	X	X
Blue-winged Teal	X						X					
Northern Shoveler					X							
Green-winged Teal	X											
Northern Bobwhite §	X			X			X		X			
Pied-billed Grebe §				X				X				
American White Pelican			X					X	X	X		
Double-crested Cormorant	X	X		X				X	X	X	X	
Least Bittern IE, §	X											
Great Blue Heron		X	X	X	X		X	X		X	X	X
Great Egret §	X	X	X	X	X		X	X	X	X		X
Snowy Egret IT, §			X									
Cattle Egret										X		X
Little Blue Heron §								X				
Green Heron	X	X		X						X		

Common Name (Table 6 cont.)	2000	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Mourning Dove	X	X	X	X	X		X			X	X	X
Yellow-billed Cuckoo §	X	X		X	X	X		X	X		X	X
Great Horned Owl	X											
Barred Owl	X	X										
Chimney Swift §												X
Ruby-throated Hummingbird		X										X
Belted Kingfisher	X	X					X		X	X	X	
Red-headed Woodpecker §	X	X		X	X	X	X	X		X		X
Red-bellied Woodpecker	X	X	X	X	X	X	X			X	X	X
Downy Woodpecker	X	X		X	X	X		X		X	X	X
Hairy Woodpecker		X										
Pileated Woodpecker												X
Northern Flicker §	X		X	X			X	X		X	X	X
Eastern Wood-pewee	X	X	X	X	X	X	X	X		X	X	X
Eastern Phoebe	X		X					X	X	X	X	X
Willow Flycatcher					X							
Great-crested Flycatcher	X	X			X	X	X			X	X	X
Eastern Kingbird	X		X	X	X		X	X		X	X	X
Yellow-throated Vireo	X											
Warbling Vireo		X			X	X	X	X	X	X		X
Red-eyed Vireo	X	X					X					
Blue Jay	X	X	X	X	X	X	X	X		X	X	X
American Crow	X	X	X	X	X	X	X	X		X	X	X
Horned Lark	X	X	X								X	X
Purple Martin					X						X	
Tree Swallow	X	X	X	X	X	X	X	X	X	X	X	X
Northern Rough-winged Swallow			X	X	X		X	X		X	X	X
Bank Swallow	X			X						X	X	X

Common Name (Table 6 cont.)	2000	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Cliff Swallow							X					X
Barn Swallow	X	X	X	X			X		X	X	X	X
Black-capped Chickadee	X	X		X		X		X		X	X	X
Tufted Titmouse	X										X	X
White-breasted Nuthatch	X	X	X			X		X			X	X
Carolina Wren	X	X		X	X	X		X				
House Wren	X	X			X	X	X		X	X		X
Sedge Wren					X		X					
Blue-gray Gnatcatcher	X										X	
Eastern Bluebird	X									X		
American Robin	X	X		X	X	X		X		X	X	X
Wood Thrush §											X	X
Gray Catbird	X	X		X	X	X	X			X	X	X
Brown Thrasher §									X	X	X	X
European Starling	X						X					
Cedar Waxwing	X							X				
American Pipit		X										
Yellow Warbler							X					
Prothonotary Warbler §		X										X
Common Yellowthroat	X	X	X	X	X	X	X	X	X	X	X	X
Yellow-breasted Chat §		X			X		X					
American Tree Sparrow	X											
Song Sparrow	X	X	X	X	X	X	X	X	X	X	X	X
Field Sparrow §										X	X	
Grasshopper Sparrow §												X
Northern Cardinal	X	X	X	X	X	X	X	X	X	X	X	
Blue Grosbeak												X
Indigo Bunting	X	X	X	X	X	X	X	X	X	X	X	X
Dickcissel §	X		X		X		X	X	X	X	X	X

Common Name (Table 6 cont.)	2000	2001	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Eastern Towhee												X
Bobolink §				X								
Red-winged Blackbird	X	X	X	X	X	X	X	X	X	X	X	X
Eastern Meadowlark					X		X			X	X	X
Common Grackle	X	X			X	X	X	X		X	X	X
Brown-headed Cowbird	X	X	X		X	X	X			X	X	X
Orchard Oriole							X				X	
Baltimore Oriole	X	X			X		X	X	X		X	
American Goldfinch	X	X	X	X				X		X	X	X
Eurasian Tree Sparrow N	X	X		X								
House Sparrow N	X											
Number species Per Year	65	49	31	45	42	24	49	40	24	53	65	52
Number of Species All Years	116											

IE= Illinois Endangered; IT = Illinois Threatened; FT=Federally Threatened; N = Non-native Species, § = Species in greatest need of conservation in Illinois

Common Name (Table 7 cont.)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Sora WL	X				X					
American Coot						X	X	X	X	
Killdeer	X	X	X			X		X	X	
Greater Yellowlegs §	X	X								
Lesser Yellowlegs	X									
Baird's Sandpiper	X									
Pectoral Sandpiper	X	X								
Wilson's Snipe WL, §					X	X				
Phalarope sp. §	X									
Ring-billed Gull	X				X	X		X	X	
Herring Gull		X				X		X	X	
Mourning Dove	X				X	X		X	X	X
Yellow-billed Cuckoo §	X									
Short-eared Owl IE, §										X*
Chimney Swift §		X		X						
Ruby-throated Hummingbird					X					
Belted Kingfisher							X			
Red-headed Woodpecker §	X		X							
Red-bellied Woodpecker	X	X	X		X	X		X	X	X
Yellow-bellied Sapsucker										X
Downy Woodpecker	X	X	X	X	X	X		X	X	X
Northern Flicker §	X	X		X	X	X			X	X
Eastern Wood-pewee					X					
Eastern Phoebe	X	X								X
Warbling Vireo	X									
Red-eyed Vireo								X		
Blue Jay	X	X	X	X	X		X	X	X	X
American Crow	X	X	X	X	X	X		X	X	X
Horned Lark				X					X	

Common Name (Table 7 cont.)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Tree Swallow	X	X	X	X	X	X				X
Northern Rough-winged Swallow		X				X				X
Barn Swallow		X								X
Black-capped Chickadee	X	X	X	X	X	X	X	X	X	X
Tufted Titmouse										X
White-breasted Nuthatch	X	X	X	X					X	X
Carolina Wren	X	X	X	X						
Bewick's Wren IE, §										X
House Wren		X								X
Golden-crowned Kinglet				X				X		
Ruby-crowned Kinglet		X								
American Robin		X		X	X		X		X	
Gray Catbird					X					X
European Starling N			X	X	X	X				X
American Pipit	X	X				X				
Cedar Waxwing									X	
Nashville Warbler										
Yellow-rumped Warbler		X		X					X	
Black-throated Green Warbler		X								
Palm Warbler		X			X				X	X
Common Yellowthroat		X			X					X
Yellow-breasted Chat §		X								
American Tree Sparrow		X	X	X	X	X		X	X	X
Chipping Sparrow				X						
Field sparrow §	X			X						
Savannah Sparrow §		X							X	
Le Conte's Sparrow §	X									
Fox Sparrow			X	X	X					X
Song Sparrow		X	X		X				X	X

Common Name (Table 7 cont.)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Lincoln Sparrow	X	X								X
Swamp Sparrow	X	X	X	X	X				X	X
White-throated Sparrow	X	X	X		X	X		X	X	X
White-crowned sparrow	X	X	X	X	X			X	X	X
Dark-eyed Junco			X	X	X			X	X	X
Northern Cardinal	X	X		X					X	X
Rose-breasted Grosbeak	X									X
Indigo Bunting	X	X		X	X					
Red-winged Blackbird	X	X	X	X	X	X	X		X	X
Eastern Meadowlark										X
Rusty Blackbird §	X									
Brown-headed Cowbird								X	X	X
Baltimore Oriole	X									
House Finch										X
American Goldfinch	X	X	X	X	X	X	X	X	X	X
Eurasian Tree Sparrow N		X								
Number of species Per Year	50	49	24	32	42	26	14	35	44	42
Number of Species All Years	96									

IE=Illinois Endangered; IT=Illinois Threatened; FT=Federally Threatened; N=Non-native species, § = Species in greatest need of conservation in Illinois, *Additional sightings of species seen by Keith Carr on Nov. 7, 2012, see text for details.

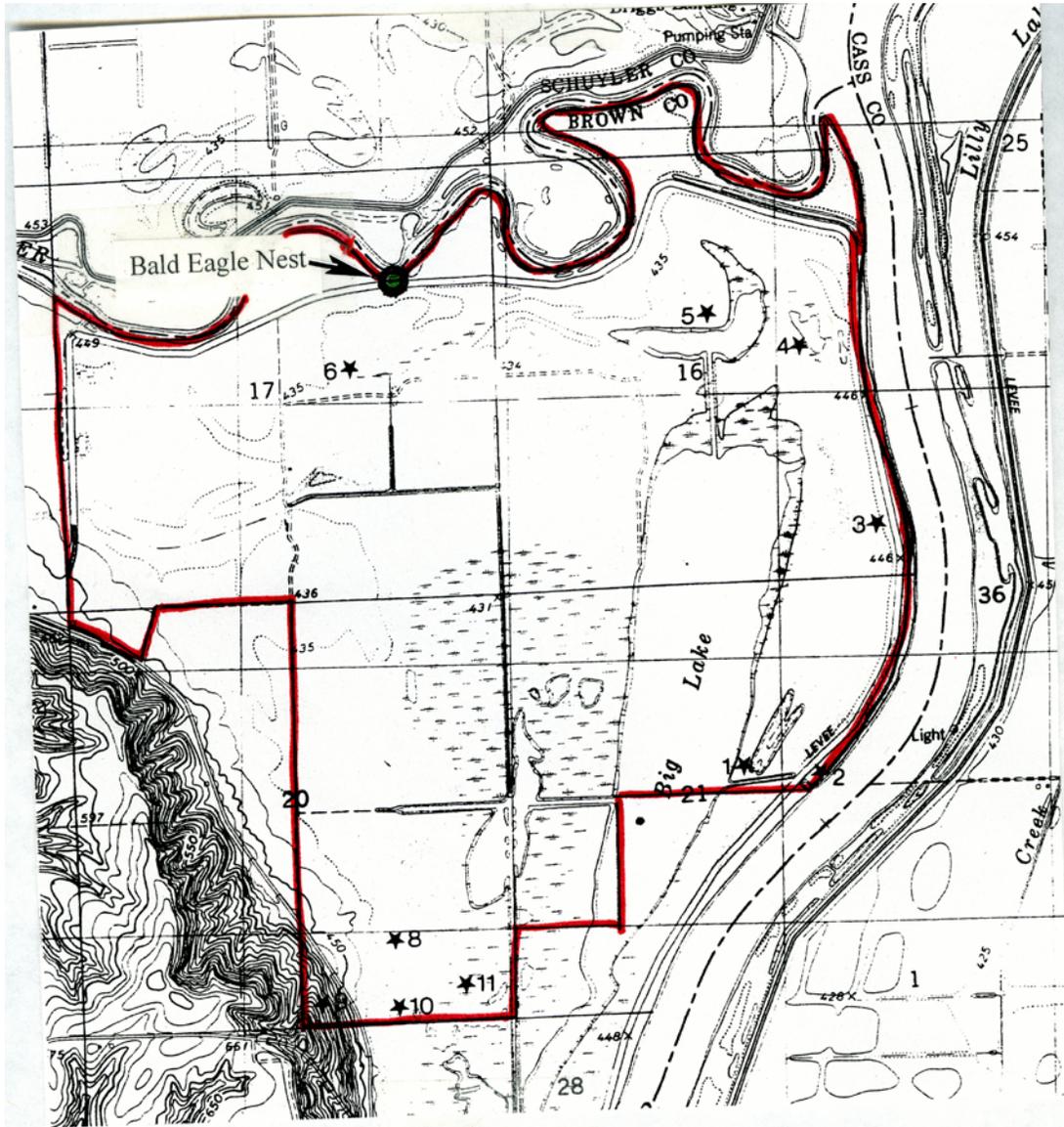


Figure 1. Location of the La Grange Wetland Bank Site project area, the census points used in the avian survey of the project area and the established Bald Eagle nest. The boundaries of the study area are highlighted in red.