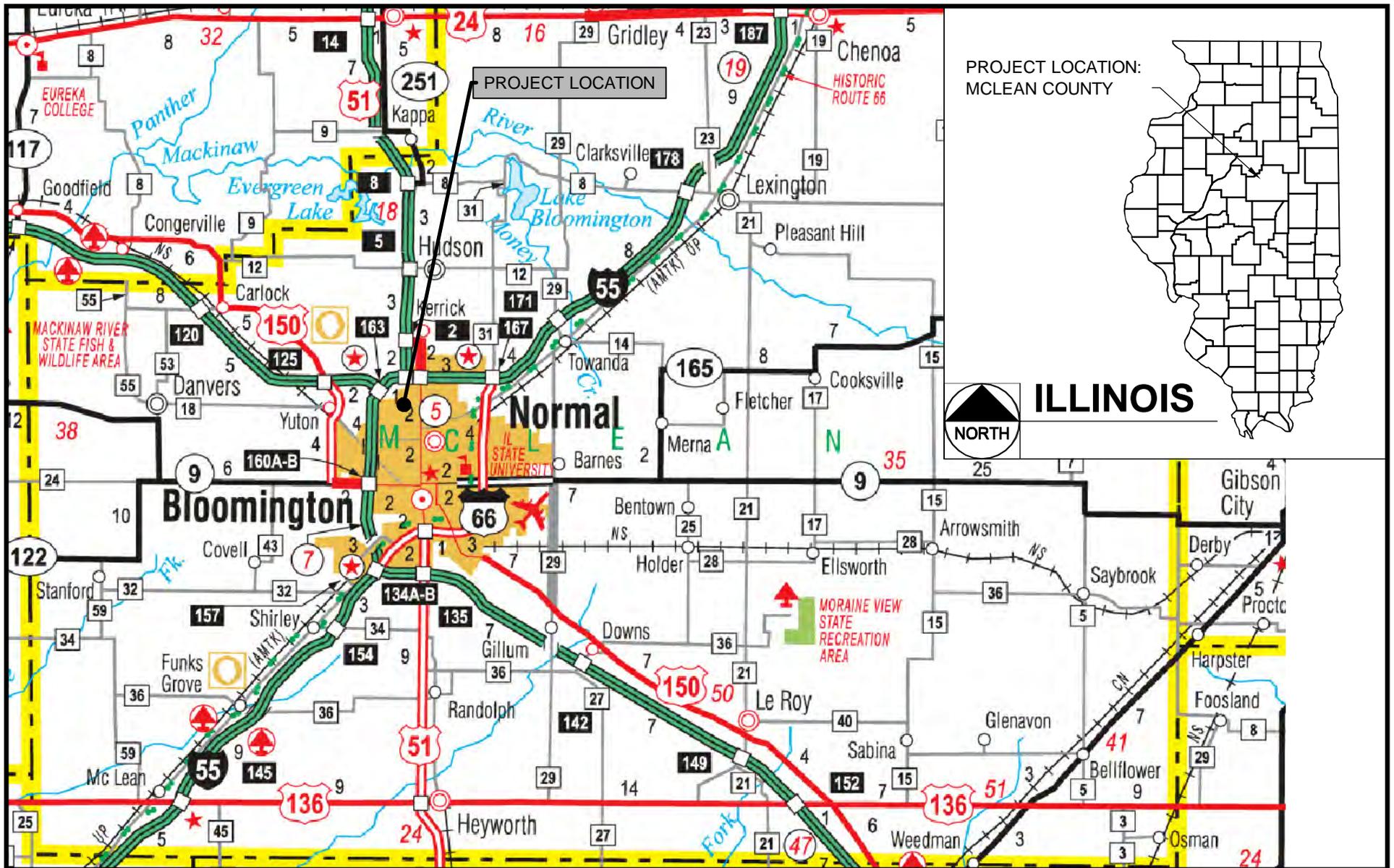


**APPENDIX A:**

**FIGURES**



PROJECT LOCATION:

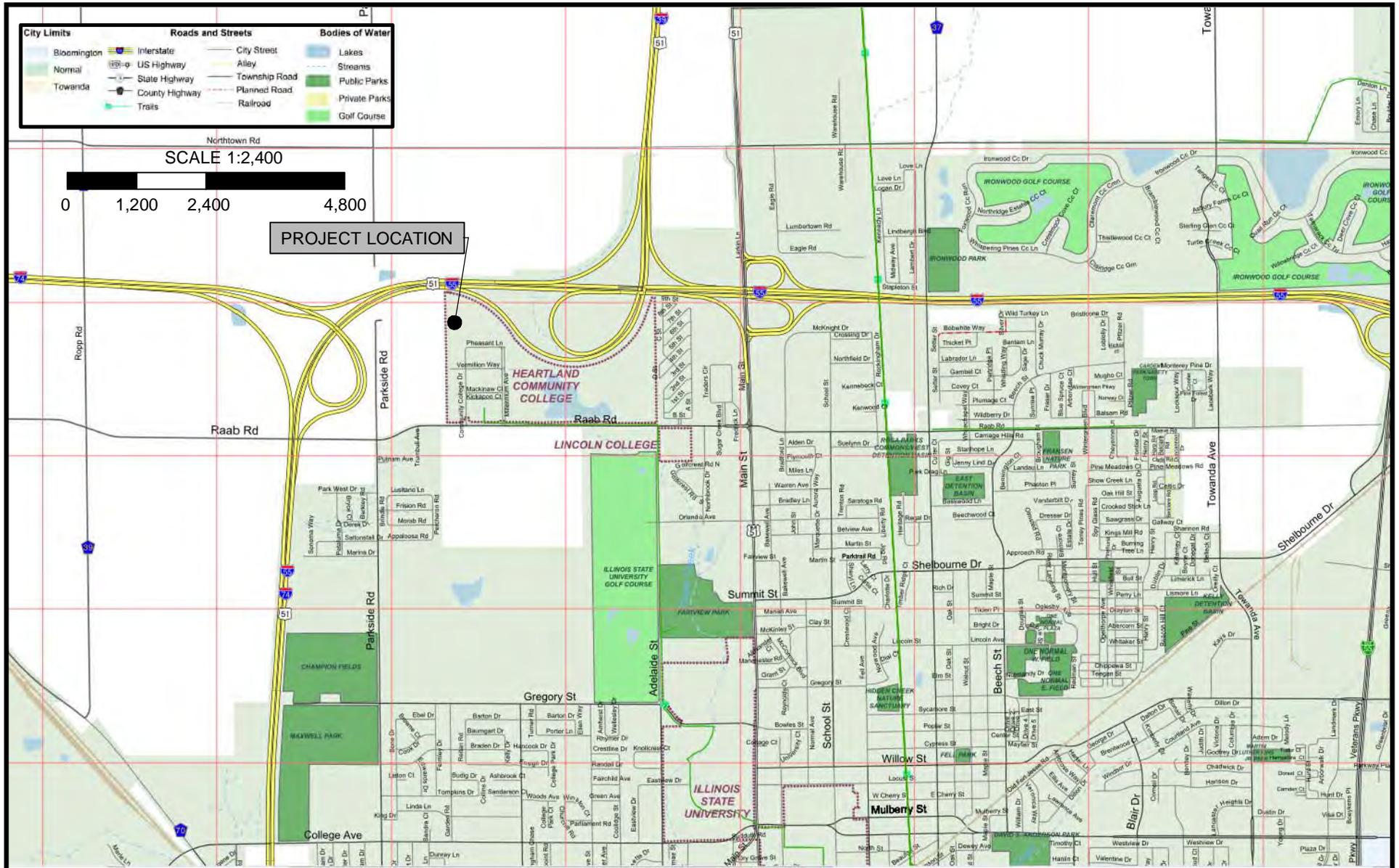
LATITUDE:  
40-32-14.39N NAD 83

LONGITUDE:  
89-00-54.77W

FIGURE 1. PROJECT LOCATION ON STATE MAP

STATE OF ILLINOIS TRANSPORTATION MAP, 2009

HEARTLAND COMMUNITY  
COLLEGE WIND TURBINE  
ENVIRONMENTAL ASSESSMENT



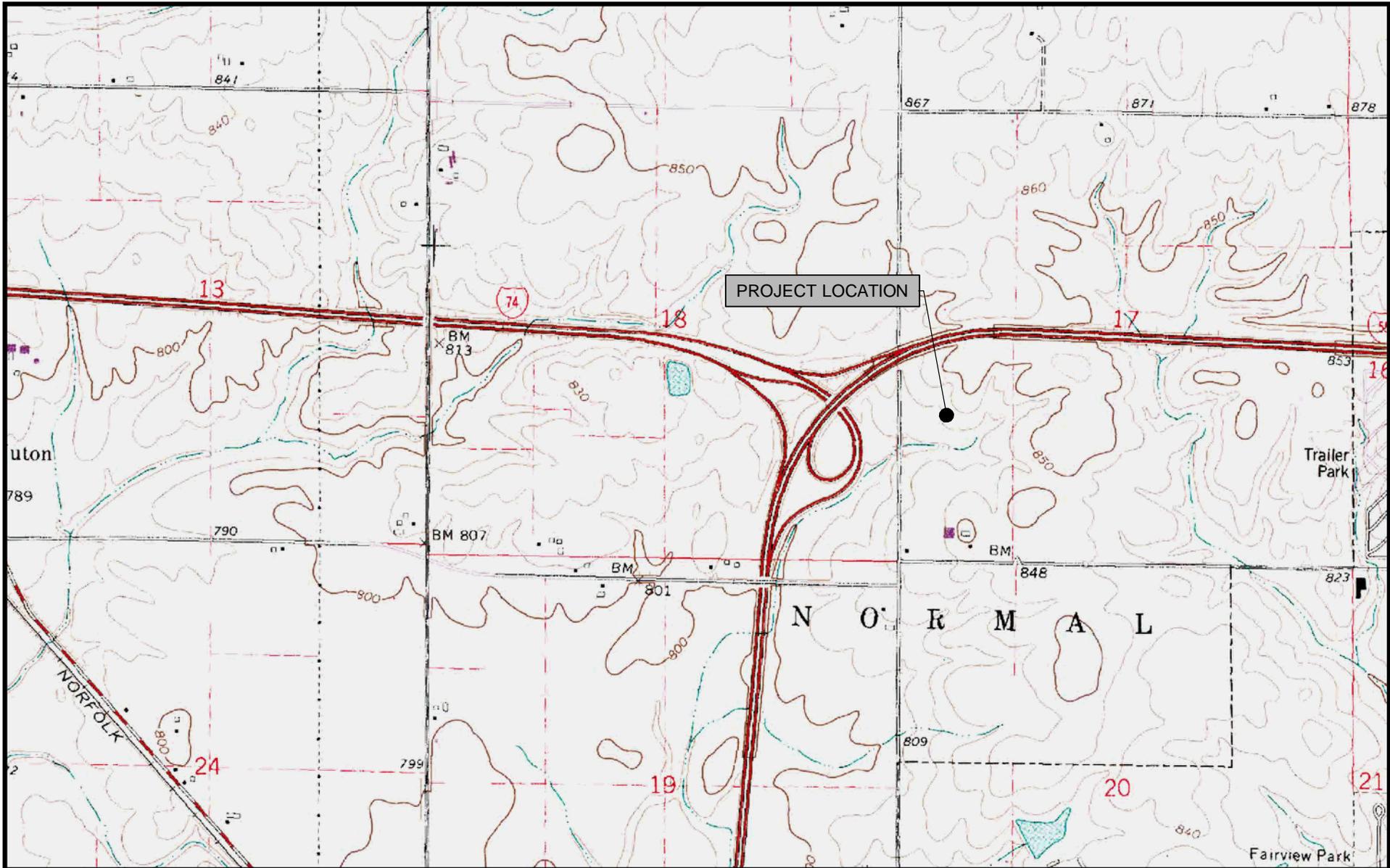
PROJECT LOCATION:

LATITUDE:  
40-32-14.39N NAD 83

LONGITUDE:  
89-00-54.77W

FIGURE 2. PROJECT LOCATION ON AREA MAP

HEARTLAND COMMUNITY  
COLLEGE WIND TURBINE  
ENVIRONMENTAL ASSESSMENT



PROJECT LOCATION:

LATITUDE:  
40-32-14.39N NAD 83

LONGITUDE:  
89-00-54.77W

FIGURE 3. PROJECT LOCATION ON USGS TOPOGRAPHICAL MAP

NORMAL WEST, ILLINOIS  
USGS QUADRANGLE

HEARTLAND COMMUNITY  
COLLEGE WIND TURBINE  
ENVIRONMENTAL ASSESSMENT



PROJECT LOCATION:

LATITUDE:  
40-32-14.39N NAD 83

LONGITUDE:  
89-00-54.77W

FIGURE 4. PROJECT LOCATION ON AERIAL PHOTO

HEARTLAND COMMUNITY COLLEGE WIND TURBINE ENVIRONMENTAL ASSESSMENT





**U.S. Fish and Wildlife Service**  
**National Wetlands Inventory**

**Heartland Wind  
Turbine**

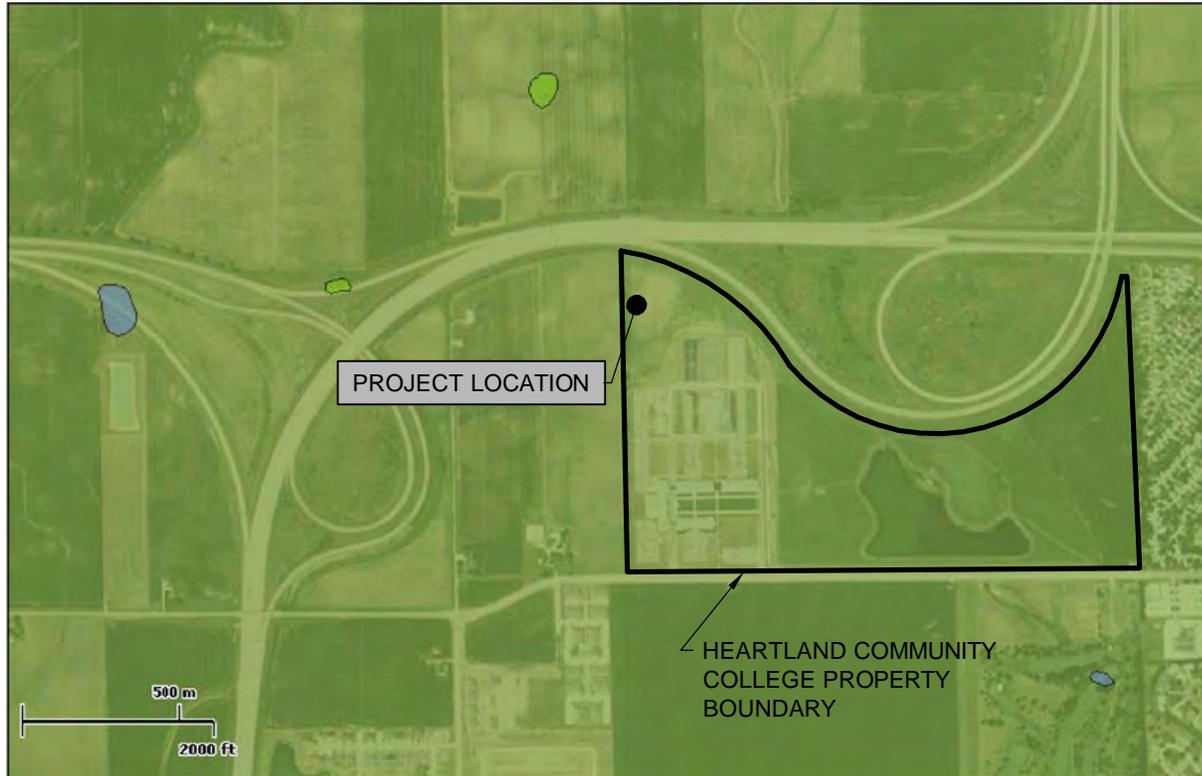
Jul 25, 2010

**Wetlands**

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deetwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

**Status**

- Digital
- Scan
- Non-Digital
- No Data



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

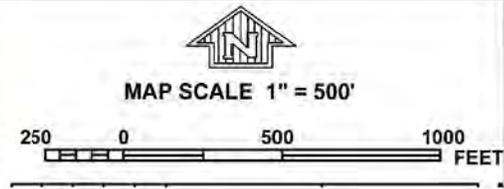
PROJECT LOCATION:

LATITUDE:  
40-32-14.39N NAD 83

LONGITUDE:  
89-00-54.77W

FIGURE 6. PROJECT LOCATION ON NWI MAP

HEARTLAND COMMUNITY  
COLLEGE WIND TURBINE  
ENVIRONMENTAL ASSESSMENT



PANEL 0292E

**FIRM**  
FLOOD INSURANCE RATE MAP  
MCLEAN COUNTY,  
ILLINOIS  
AND INCORPORATED AREAS

**PANEL 292 OF 825**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MCLEAN, COUNTY OF	170931	0292	E
NORMAL, TOWN OF	170602	0292	E

Notice to User: The Map Number shown below should be listed when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



**MAP NUMBER**  
17113C0292E

**MAP REVISED**  
JULY 16, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

PROJECT LOCATION:

LATITUDE:  
40-32-14.39N NAD 83

LONGITUDE:  
89-00-54.77W

FIGURE 7. PROJECT LOCATION ON FEMA FIRM MAP

HEARTLAND COMMUNITY  
COLLEGE WIND TURBINE  
ENVIRONMENTAL ASSESSMENT

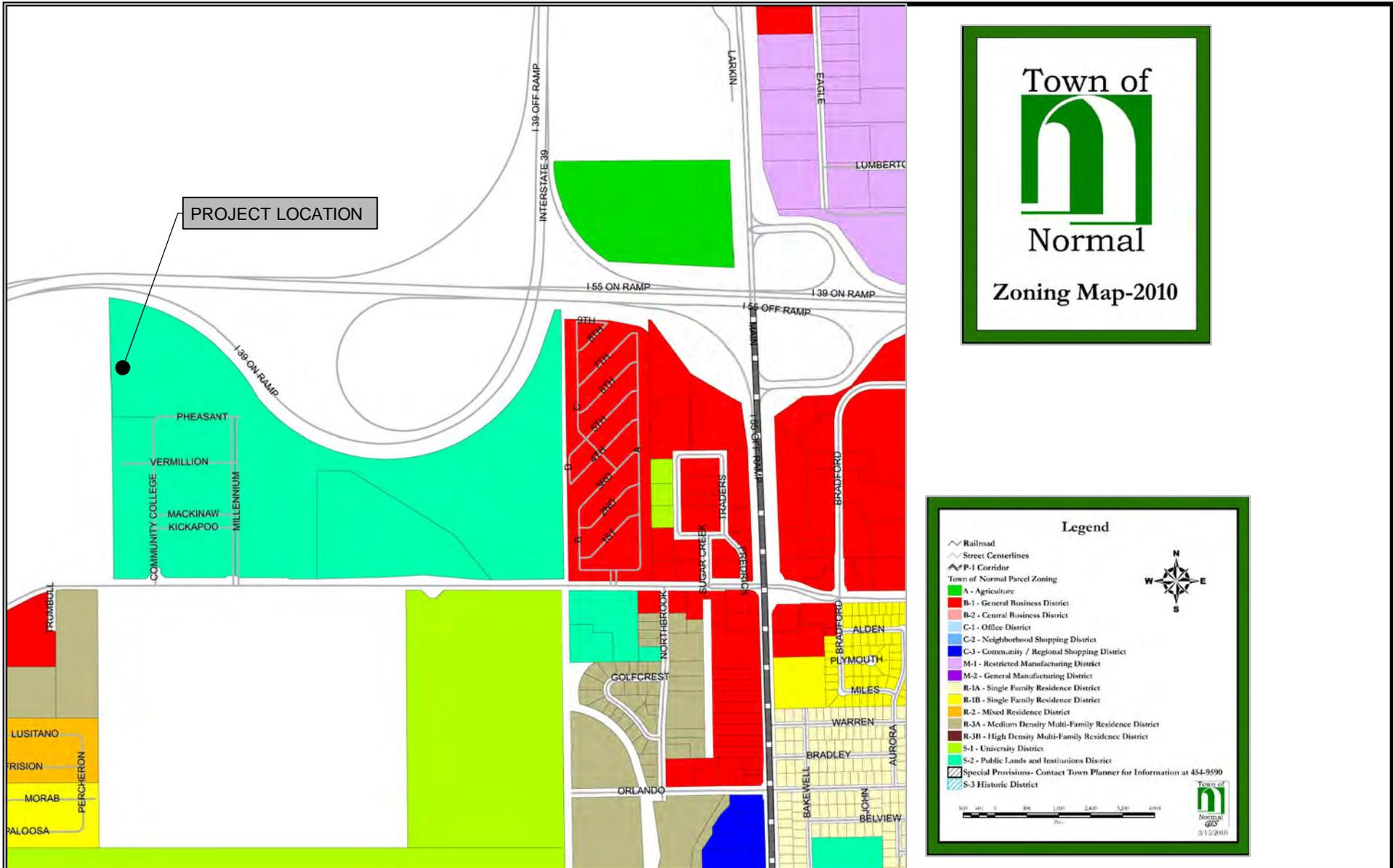
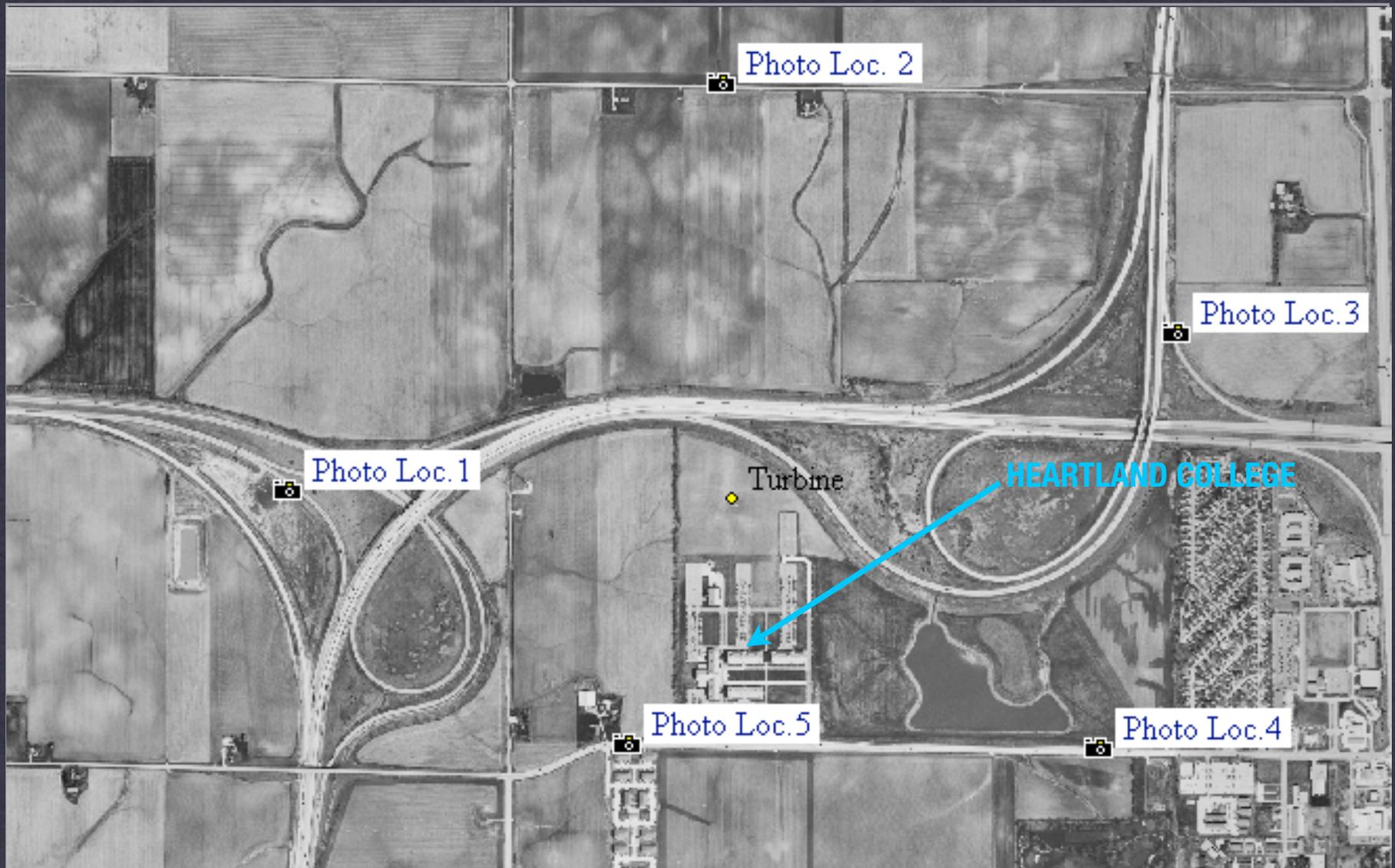


FIGURE 8. PROJECT LOCATION ON TOWN OF NORMAL ZONING MAP

HEARTLAND COMMUNITY  
COLLEGE WIND TURBINE  
ENVIRONMENTAL ASSESSMENT





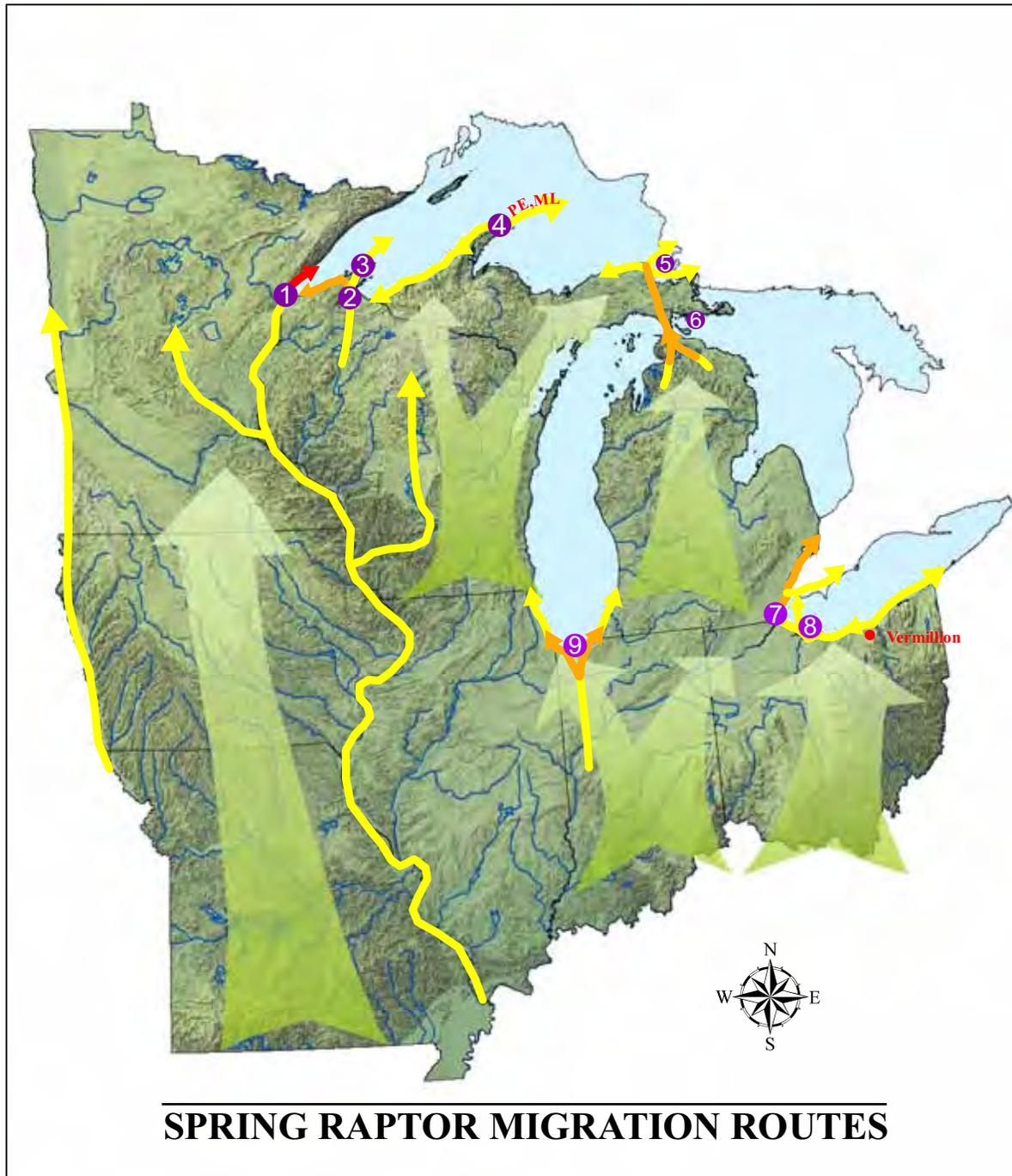
# Heartland Wind Project- Photo Locations

Drawn by Wes Slaymaker, P.E.  
WES Engineering Inc. July, 2010

● **TURBINE**



# Figure 14



## SPRING RAPTOR MIGRATION ROUTES

SYMBOL	COMMON NAME
AK	American Kestrel
BE	Bald Eagle
BO	Boreal Owl
BW	Broadwing
CH	Cooper's Hawk
GE	Golden Eagle
LEO	Long-eared Owl
ML	Merlin
NG	Northern Goshawk
NH	Northern Harrier
NSWO	Northern Saw-whet Owl
OS	Osprey
PG	Peregrine Falcon
RL	Rough-legged Hawk
RS	Red-shouldered Hawk
RT	Red-tailed Hawk
SEO	Short-eared Owl
SS	Sharp-shinned Hawk
TV	Turkey Vulture

### Major Raptor Migration Observation Sites

- ① West Skyline Observatory, Duluth (TV,OS,BE,SS, BW,RT,RL,GE)
- ② Chequamegon Bay, Ashland (TV,SS,BW,RT,GE,BE)
- ③ Apostle Islands (AK,ML,PG)
- ④ Manitou Island/Keewenaw Peninsula (OS,SS,RL, NH,BE,PE,ML)
- ⑤ Whitefish Point (TV,BE,NH,SS,RS,BW,RT,RL,GE, AK,ML,PG,NSWO,BO,LEO)
- ⑥ Straits of Mackinac (TV,BE,SS,CH,RS, RT,RL,BW,GE)
- ⑦ Port Huron (TV,SS,RS,RT,BW)
- ⑧ Lake Erie Islands (TV,SS,BE,NH,OS,ML,PG)
- ⑨ Indiana Dunes NL (OS,NH,SS,RS,BW,RT,AK)

**Legend**

**Number of Birds**

- 2,500 - 5,000
- 5,000 - 10,000
- 10,000 - 20,000
- >20,000

Map Created for: Division of Migratory Birds  
 October, 2006  
 Fall Migratory Bird Information provided by  
 USFWS Migratory Bird Biologist Bob Russell