APPENDIX O

AGENCY COORDINATION

Past planning documents identified a “Chicago to Omaha” corridor, so for the purposes of this appendix, the corridor reference will remain as previously designated; however, the project name includes “Council Bluffs” in the title.

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From: email@chicagotoomaha.com [mailto:email@chicagotoomaha.com]
Sent: Wednesday, February 15, 2012 12:05 PM
To: janet.vine@dot.iowa.gov; amanda.martin@dot.iowa.gov
Subject: Agency scoping meeting 2/21/12 for the Chicago to Omaha Regional Passenger Rail Planning Study

The Federal Railroad Administration (FRA) and the Iowa Department of Transportation (Iowa DOT) are requesting your participation in a scoping meeting for the Chicago to Omaha Regional Passenger Rail System Planning Study (the Study). A Tier 1 Environmental Impact Statement (EIS) is being prepared for this Study; a Notice of Intent for the Tier 1 EIS will soon be published in the Federal Register. An information packet describing the Study is being prepared and will be mailed to you separately. Attached is a figure showing previously established routes that are the initial route alternatives being considered prior to scoping for the Tier 1 EIS. An agency scoping meeting (information below) has been planned to provide an opportunity for interactive discussion of the Study. Please join us in one of two ways highlighted below:

February 21, 2012
10:00 AM-Noon, Central Standard Time

Online:
Click here to join the meeting:
http://connectnow.acrobat.com/wendythompson159

Call-In Number: 1.866.685.1580
Code: 0009990707

In person:
Iowa DOT West Materials Conference Room
800 Lincoln Way
Ames, IA 50010

Please RSVP at email@chicagotoomaha.com if you plan to participate, and indicate if you will attend online or in person.

The primary purpose of the scoping meeting will be to review information assembled to date and to discuss issues that the reestablishment of passenger rail service from Chicago to Omaha (Proposed Action) may present if implemented. An agenda for the meeting is included below. Public involvement, including scoping, is also being conducted for this Study. Relevant information on the NEPA process and the Study is available on http://www.iowadot.gov/chicagotoomaha.

AGENDA

1. **Introductions**
2. **Study Introduction**

a. Study Background
b. Purpose and Need
c. Project Description
d. Alternatives Screening
e. Resource Methodologies
f. Schedule
g. Agency Input

3. Discussion of Issues

a. Agency Interests and Concerns, and Available Information
b. Online Public Information Meeting

4. Action Items

5. Meeting Conclusion

Subject **Agency scoping underway for the Chicago to Omaha Regional Passenger Rail Planning Study**

From <email@chicagotoomaha.com>

To <Janet.vine@dot.iowa.gov> <amanda.martin@dot.iowa.gov>, <andrea.martin@dot.gov>

Date 04/01/2012 3:09 pm

- C-O Coordination Packet - Figure 1_2012 01 19.pdf (364 KB)
- C-O_Scoping Packet - Project Description Example_2012 02 10_BG.pdf (44 KB)

The Federal Railroad Administration (FRA) and the Iowa Department of Transportation (Iowa DOT) are notifying that they are evaluating alternatives for the reestablishment of passenger rail service from Chicago, Illinois, through Iowa, to Omaha, Nebraska (the Project). The Iowa DOT's evaluation will be documented in the Chicago to Omaha Regional Passenger Rail System Planning Study (the Study) Tier 1 Service Level Environmental Impact Statement (EIS). The Notice of Intent for the Tier 1 Service Level EIS was published in the Federal Register on March 15, 2012. The scoping process is underway and is scheduled through April 16, 2012.

Attached is a description of the Study (which provides background information and identifies the transportation problems that the Project is expected to address), and a figure showing the previously established routes that constitute the Study Area. Public involvement, including scoping, is also being conducted for this Study. Relevant information on the NEPA process and the Study is available on http://www.iowadot.gov/chicagotoomaha. The NOI and the Purpose and Need Statement are both included on the website under "Resources" (http://www.iowadot.gov/chicagotoomaha/resources.html). Public scoping materials can be found at http://chicagotoomaha.com/.

We are soliciting your input on the Study. The aforementioned website will host relevant documents for the Study, with an Alternatives Analysis Report scheduled to be posted before a series of public meetings in May; the website provides additional information on the meetings. Please reply to this e-mail address with any comments. Thank you.

Salutation	F_Name	L_Name	Title	Organization
Iowa Federal Agency Coordination List				
	Glenn	Helm		Federal Aviation Administration
	Dick	Hainje	Regional Director	Federal Emergency Management Agency
	Lubin	Quinones	Iowa Division Administrator	Federal Highway Administration
	Steven	Fender	Deputy Regional Administrator	Federal Railroad Administration
	David	Gregory	Deputy Regional Administrator	Federal Railroad Administration
	Darrell	Tisor	Regional Administrator	Federal Railroad Administration
	Joan	Roesler	Planning and Program Development Team Leader	Federal Transit Administration, Region VII
Colonel	Shawn	McGinley	Rock Island District Commander	US Army Corps of Engineers
	Martha	Cheiply		US Army Corps of Engineers
	Kayla	Eckert-Uptmor		US Army Corps of Engineers
	Eric	Washburn	Commander (dwb)	US Coast Guard
	Richard	Sims	State Conservationist	US Department of Agriculture
	Andrew	Boeddeker	HUD Regional Office	US Department of Housing and Urban Development
	James	Ryan	Supervisory Project Manager	US Department of Housing and Urban Development
	Robert	Stewart		US Department of Interior
	Joe	Cothern	NEPA	US Environmental Protection Agency
	Eliodora	Chamberlain	Wetlands	US Environmental Protection Agency
	Mike	George	Field Supervisor	US Fish and Wildlife Service
	Richard	Nelson	Project Manager	US Fish and Wildlife Service
	Kathleen	Moench	Section 6(f) Funds Coordinator	Iowa Department of Natural Resources
	Kelly	Poole	Environmental Specialist	Iowa Department of Natural Resources
	Christine	Schwake		Iowa Department of Natural Resources
	Bryan	Bradley	Utility Engineer	Iowa Department of Transportation
	Barbara	Mitchell	Deputy SHPO	State Historical Society of Iowa
	Nick	Chevance	Environmental Coordinator	National Park Service
Other Federal Agency Contacts				
	Joel	Himsl	Garrison Manager	Department of the Army
	Karla	Bullett	Chicago District Executive Office	US Army Corps of Engineers
	Marisol	Simon	Regional Administrator	Federal Transit Administration, Region V
	Susan	Schalk		Federal Aviation Administration
	Kenneth	Sessa	Regional Environmental Officer	FEMA, Region 7
	Amanda	Ratliff		Federal Emergency Management Agency
	Antonio	Riley	Regional Administrator	US Department of Housing and Urban Development
	Beverly	Bishop	Deputy Regional Administrator	US Department of Housing and Urban Development
Commander	Robert E.	Bailey, Jr.	Commanding Officer	US Coast Guard, Ninth District
	Scherrie	Giamanco	State Executive Director	US Department of Agriculture
	Dan	Steinkruger	State Executive Director	US Department of Agriculture
	John	Whitaker	State Executive Director	US Department of Agriculture
	Jeffrey	Zimprich	Acting State Conservationist	US Department of Agriculture
	Joe	Gates	District Conservationist	US Department of Agriculture
	Mark	Jackson	Coordinator	US Department of Agriculture
	Kenneth	Westlake	Chief, NEPA Implementation Section	US Environmental Protection Agency
	Peter	Cassell	Water Division Liaison	US Environmental Protection Agency
	Danny	Briggs	Transportation Engineer	US Federal Highway Administration
	Joseph	Werning	Division Administrator	US Federal Highway Administration
	Norman	Stoner	Division Administrator	US Department of Transportation Federal Highway Administration
	Kevin	Foerster	Refuge Manager	US Fish & Wildlife Service
	Louise	Clemency	Field Supervisor	US Fish and Wildlife Service
	Mark	Baran	District Conservationist	USDA/NRCS
	Keith	Krause	District Conservationist	USDA/NRCS
	Eileen	Kirsch		USGS
	Valincia	Darby	Assistant Regional Environmental Officer	US Department of Interior
	Andrew	Raddant	Regional Environmental Officer	US Department of Interior
Other Iowa Agency Contacts				
	Jeff	Wardlow	Executive Director	Iowa Agriculture Development Authority
	Bill	Northey	Secretary of Agriculture	Iowa Department of Agriculture and Land Stewardship
	Cyndi	Pederson	Director	Iowa Department of Cultural Affairs
	Thomas	Hart	Division Administrator	Iowa Economic Development Authority
	Scott	Dockstader	District 1 Engineer	Iowa Department of Transportation
	Vicki	Dumdei	District 2 Engineer	Iowa Department of Transportation
	Tony	Lazarowicz	District 3 Engineer	Iowa Department of Transportation
	Jim	Armstrong	District 5 Engineer	Iowa Department of Transportation
	Jim	Schnoebelen	District 6 Engineer	Iowa Department of Transportation
	Troy	Jerman	District 4 Engineer	Iowa Department of Transportation
	Sherry	Timmins	Team Leader	Iowa Economic Development Authority
	Liz	Christiansen	Board Administrator	Iowa Environmental Protection Commission
	Sandra	Sampson		Iowa State Parks Bureau
	Deborah	Lewis	Board Member	Iowa State Preserves Advisory Board
				Iowa Transportation Commission
	Mary Kay	Brinkman		Iowa Department of Public Health
	Charles	Palmer	Director	Iowa Department of Human Services

Illinois Agency Contacts

	Shauna	Kelley	Bureau Chief	Illinois Commerce Commission
	Steve	Chard	Acting Bureau Chief	Illinois Department of Agriculture
	Warren	Goetsch	Bureau Chief	Illinois Department of Agriculture
	Warren	Ribley	Director	Illinois Department of Commerce and Economic Opportunity
	Karen	Miller	Section Manager	Illinois Department of Natural Resources
	Gary	Jereb	Section Manager	Illinois Department of Natural Resources
				Illinois Department of Transportation
				Illinois Department of Transportation
				Illinois Department of Transportation
				Illinois Department of Transportation
	Aaron	Weatherholt	Bureau Chief of Operations	Illinois Department of Transportation
	Scott	Stitt	Acting Bureau Chief	Illinois Department of Transportation
	Michael	Garcia	Bureau Chief	Illinois Department of Transportation, Bureau of Railroads
	George	Weber	Deputy Director	Illinois Department of Transportation, Bureau of Railroads
	Carol	Para		Illinois Division of Aeronautics
	Douglas	Scott	Director	Illinois Environmental Protection Agency
	Anne	Haaker	Deputy SHPO	Illinois Historical Preservation Agency
	Jolene	Willis		Illinois Institute for Rural Affairs
	Randy	Heidorn	Acting Director	Illinois Nature Preserves Commission
	Andrew	Ross	Deputy Chief of Staff	State of Illinois
	Michelle	Saddler	Secretary	Illinois Department of Human Services

Nebraska Agency Contacts

	John	Moeschen		US Army Corps of Engineers - Nebraska Regulatory
	Craig	Derickson	State Conservationist	US Department of Agriculture, Natural Resources Conservation Service
	Mark	Schenkelberg		US Federal Aviation Administration
	Clifton	Jones		US Department of Housing and Urban Development
	Beth	Freeman		US Department of Homeland Security, FEMA Region 7
	John	Winkler		Papio-Missouri River Natural Resources District
	Paul	Mullen		Metropolitan Area Planning Agency
	Ellis	Thompkins	Rail and Public Transportation Director	Nebraska Department of Roads
	Tim	Weander	District 2	Nebraska Department of Roads
	Joe	Francis		Nebraska Department of Environmental Quality
	Ronnie	Mitchell	Director	Nebraska Department of Aeronautics
	Brian	Dunnigan		Nebraska Department of Natural Resources
	Bob	Puschendorf		Nebraska State Historical Society
	Barry	DeJong		Nebraska Department of Health and Human Services
	John	Bender	Water Quality Standards Coordinator	Nebraska Department of Environmental Quality
	Joe	Francis	Associate Director	Nebraska Department of Environmental Quality
	Brian	Dunnigan	Director	Nebraska Department of Natural Resources
	Frank	Albrecht	Assistant Director of Administration	Nebraska Game and Parks Commission
	Carey	Grell	Environmental Analyst	Nebraska Game and Parks Commission
	Robert	Puschendorf	Deputy State Historical Preservation Officer	Nebraska State Historical Society

Regional Agency Contacts

				Central Iowa Regional Transportation Planning Alliance
				Des Moines Area Metropolitan Planning Organization
	Kelley	Deutmeyer	Executive Director	East Central Intergovernmental Association
	Sharon	Juon	Executive Director	Iowa Northland Regional Council of Governments
	Cliff	Weldon	Executive Director	MIDAS Council of Governments
				Region 6 Planning Commission
				Region XII Council of Governments
				Southwest Iowa Planning Council
				Bi-State Regional Commission
				Area 15 Regional Planning Commission
				Chariton Valley Planning & Development
				Southern Iowa Council of Governments
	John	Yapp	Executive Director	Johnson County Council of Governments
	Randall	Blankenhorn	Executive Director	Chicago Metropolitan Agency for Planning (CMAP)
	George	Hardwidge	Deputy Executive of Operations	Metra
	Joseph	Costello	Executive Director	Regional Transportation Authority
				Chicago Transit Authority
				Chicago Region Environmental and Transportation Efficiency Program
	Thomas	Ross	Executive Director	PACE
	Michael	Franke	Assistant Vice President	National Railroad Passenger Corporation (Amtrak)
				Chicago Department of Transportation
				Blackhawk Hills Resource Conservation and Development District
				Boone-Belvidere Regional Planning Commission
				North Central Illinois Council of Governments
				Western Illinois Regional Council

Iowa County Conservation Districts

				Adair

				Adams
				Benton
				Black Hawk
				Boone
				Buchanan
				Butler
				Calhoun
				Carroll
				Cass
				Cedar
				Clarke
				Clinton
				Crawford
				Dallas
				Delaware
				Des Moines
				Dubuque
				Franklin
				Greene
				Guthrie
				Hamilton
				Hardin
				Harrison
				Henry
				Iowa
				Jackson
				Jasper
				Jefferson
				Johnson
				Jones
				Linn
				Lucas
				Madison
				Marshall
				Mills
				Monroe
				Montgomery
				Muscatine
				Polk
				Pottawattamie
				Poweshiek
				Sac
				Scott
				Shelby
				Story
				Tama
				Union
				Wapello
				Webster
Other Local Agencies				
	Pamela	Horiwitz		Big Bureau Creek Watershed
	Mark	Miller	Director	Bureau County
	Natalie	Mahler	Resource Conservationist	Grundy County
	Nick	Schaefer	Director	Grundy County
	John	Oliver	Associate Director	Henry County
	Douglas	Peterson	Director	Henry County
	Elizabeth	Hagen-Moeller	Administrative Coordinator	Kane-DuPage
	Pat	Hogan	Director	Kendall County
	Jason	Pettit	Director	Kendall County
	JoAnn	Adams	Director	LaSalle County
	Dennis	Ford	Director	LaSalle County
	Paul	Burrs	Director	Lee County
	Jeff	Craver	Director	Rock Island County
	Brian	Parkinson	Director	Rock Island County
	Paul	Young	Director	Whiteside County
	Suzanne	Malec-McKenna	Acting Commissioner	City of Chicago
	Steven	Bylina	General Superintendent	Cook County Forest Preserve District
				Forest Preserve District of DuPage County
				Forest Preserve District of Will County
	Monica A.	Meyers	Executive Director	Forest Preserve District of Kane County
				Lake County Forest Preserves
	Terry	Hannan	Superintendent	DeKalb County Forest Preserve
				Winnebago County Forest Preserve District
				Byron Forest Preserve District

STUDY DESCRIPTION

The Iowa Department of Transportation (DOT), in conjunction with the Federal Railroad Administration (FRA), is evaluating alternatives for the reestablishment of intercity passenger rail service from Chicago, Illinois, through Iowa, to Omaha, Nebraska (the Project). FRA and Iowa DOT's evaluation will be documented in the Chicago to Omaha Regional Passenger Rail System Planning Study (the Study) Tier 1 Service Level Environmental Impact Statement (EIS). The Tier 1 EIS will analyze a range of reasonable corridor-level route alternatives between Chicago and Omaha for a conventional locomotive-hauled, passenger train service, operating on track used jointly with freight trains, at an initial maximum speed of 79 to 90 miles per hour (mph). The Study will examine necessary improvements to support additional passenger trains. FRA and Iowa DOT will consider increasing the frequency of passenger rail service as well as increasing the currently planned maximum speed of such service in the Chicago to Omaha corridor (the Corridor). The need for the Project stems from the increasing travel demand resulting from population growth and changing demographics along the Corridor as well as the need for competitive and attractive modes of travel.

An EIS is a National Environmental Policy Act of 1969 (NEPA) document that is required in the preliminary stages of the planning process for all major Federal actions significantly affecting the quality of the environment. The EIS is a written record of the analysis of potential impacts on the environment resulting from construction and operation of the Project. Impacts on both the natural and socioeconomic environment are evaluated.

FRA and Iowa DOT will use a tiered process, outlined in Chapter 40 of the Code of Federal Register (40 CFR Section 1508.28 and in accordance with FRA guidance), in the completion of the environmental review of the Project ''Tiering'' is a staged process applied to environmental reviews for complex projects. The Tier 1 EIS will address broad corridor-level issues and alternatives. The Tier 1 EIS is a service-level NEPA analysis that will address the broader questions relating to the type of service being proposed (including cities and stations served, route alternatives, service levels, ridership projections, and major infrastructure components), and the associated transportation and environmental impacts.

The Tier 1 EIS will be developed in accordance with Council on Environmental Quality (CEQ) regulations (40 CFR 1500 et seq.) implementing NEPA (42 USC 4321 et seq.) and FRA's Procedures for Considering Environmental Impacts (64 FR 28545; May 26, 1999). In addition to NEPA, the analysis will be undertaken consistent with Section 106 of the National Historic Preservation Act, the Endangered Species Act, Clean Air Act, Clean Water Act, Section 4(f) of the Department of Transportation Act of 1966, and Iowa DOT guidance, along with other applicable Federal, state, and local regulations in the level of detail appropriate for a Tier 1 EIS.

The Chicago to Omaha corridor extends from Chicago Union Station, in downtown Chicago, on the east to a terminal in Omaha on the west. The Study Area consists of the five previously established passenger rail routes between Chicago and Omaha that pass through the states of Illinois and Iowa. Each route is approximately 500 miles long. In Illinois, the Study Area runs generally west from Chicago Union Station, which is the hub for the Midwest Regional Rail Initiative (MWRRI), to the Mississippi River and, depending on the route, is a distance of between 150 and 250 miles. In Iowa, the Study Area runs west from the Mississippi River across the entire state to the Missouri River, a distance of approximately 300 miles. In Nebraska, the Study Area terminates in Omaha, which is located at the Missouri River, the eastern border of the state. The general location for the terminal in Omaha will be identified as part of this Study.

Figure 1 shows the location of Chicago and Omaha and different rail routes between the two cities.

The five previously established passenger rail routes that compose the Study Area include the former Illinois Central route (Route 1), the former Chicago & North Western route (Route 2), the former Milwaukee Road route (Route 3), the former Rock Island route (Route 4), and the former Burlington route (Route 5), as shown in Figure 1. These routes are numbered from north to south. For each route, the counties that are traversed in Illinois, Iowa, and Nebraska are listed east to west in Table 1.

Table 1. Counties Traversed by Routes in the Study Area

State	Route 1	Route 2	Route 3	Route 4	Route 5
Illinois	Cook DuPage Kane DeKalb Boone Winnebago Stephenson Jo Daviess	Cook DuPage Kane DeKalb Ogle Lee Whiteside	Cook DuPage Kane DeKalb Ogle Carroll	Cook Will Grundy La Salle Bureau Henry Rock Island	Cook DuPage Kane Kendall DeKalb La Salle Bureau Henry Knox Warren Henderson
Iowa	Dubuque Delaware Buchanan Black Hawk Butler Franklin Hardin Hamilton Webster Calhoun Sac Crawford Harrison Pottawattamie	Clinton Cedar Linn Benton Tama Marshall Story Boone Greene Carroll Crawford Harrison Pottawattamie	Jackson Clinton Jones Linn Benton Tama Marshall Story Boone Dallas Guthrie Carroll Crawford Shelby Harrison Pottawattamie	Scott Muscatine Cedar Johnson Iowa Poweshiek Jasper Polk Dallas Madison Guthrie Adair Cass Pottawattamie	Des Moines Henry Jefferson Wapello Monroe Lucas Clarke Union Adams Montgomery Mills Pottawattamie
Nebraska	Douglas	Douglas	Douglas	Douglas	Douglas

These previously established routes will be screened to determine which route alternatives would be evaluated in detail in the Tier 1 EIS. Geographic information system data on environmental resources will be used to help screen route alternatives; no field studies are planned for the Tier 1 NEPA process. It is anticipated that the Tier 1 EIS will examine the viability of one or more reasonable and feasible route alternatives.

The No-Build Alternative will represent no action and will be used as a baseline for comparison to all other route alternatives. The No-Build Alternative represents other transportation modes, such as automobile, intercity bus, air travel, and existing rail, and the physical characteristics and capacities as they exist at the time of the Tier 1 EIS, as well as planned and funded improvements that will be in place at the time the proposed improvements would become operational.

Future Tier 2 NEPA evaluation(s) will address one or more specific sections of the Corridor to be implemented within the route alternative selected in the Tier 1 EIS, and will incorporate by reference the data and evaluations included in the Tier 1 EIS. The Tier 2 NEPA evaluations will concentrate on the resource-specific issues relevant to the section of the selected route alternative identified in the Tier 1 EIS, and identify the environmental consequences and measures necessary to mitigate environmental impacts at a site-specific level of detail.

ANTICIPATED IMPACTS

A wide spectrum of resources will be evaluated in the Tier 1 EIS, including (but not limited to) cultural resources, natural resources, impacts to homes and businesses, socioeconomic resources, noise and vibration, and air quality. Impacts may vary depending on the elements of the final design.

DEVELOPMENT PROCEDURES

This Project is being developed for Federal funding participation. A determination by Iowa DOT and FRA has identified this Study as requiring preparation of an EIS.

Current regulations governing development of Federally funded railroad improvements require early coordination with units of government that may have interests in the Proposed Action or its potential impacts. This coordination packet is intended to provide early notification of the Study for the Project and to solicit comments regarding the potential impacts of such an action. Several Federal, state, and local agencies will also be contacted directly to request their early input as part of the Study impact identification process.

Public involvement, including scoping, is also being conducted for this Study. Relevant information on the NEPA process and the Study is available on http://www.iowadot.gov/chicagotoomaha.

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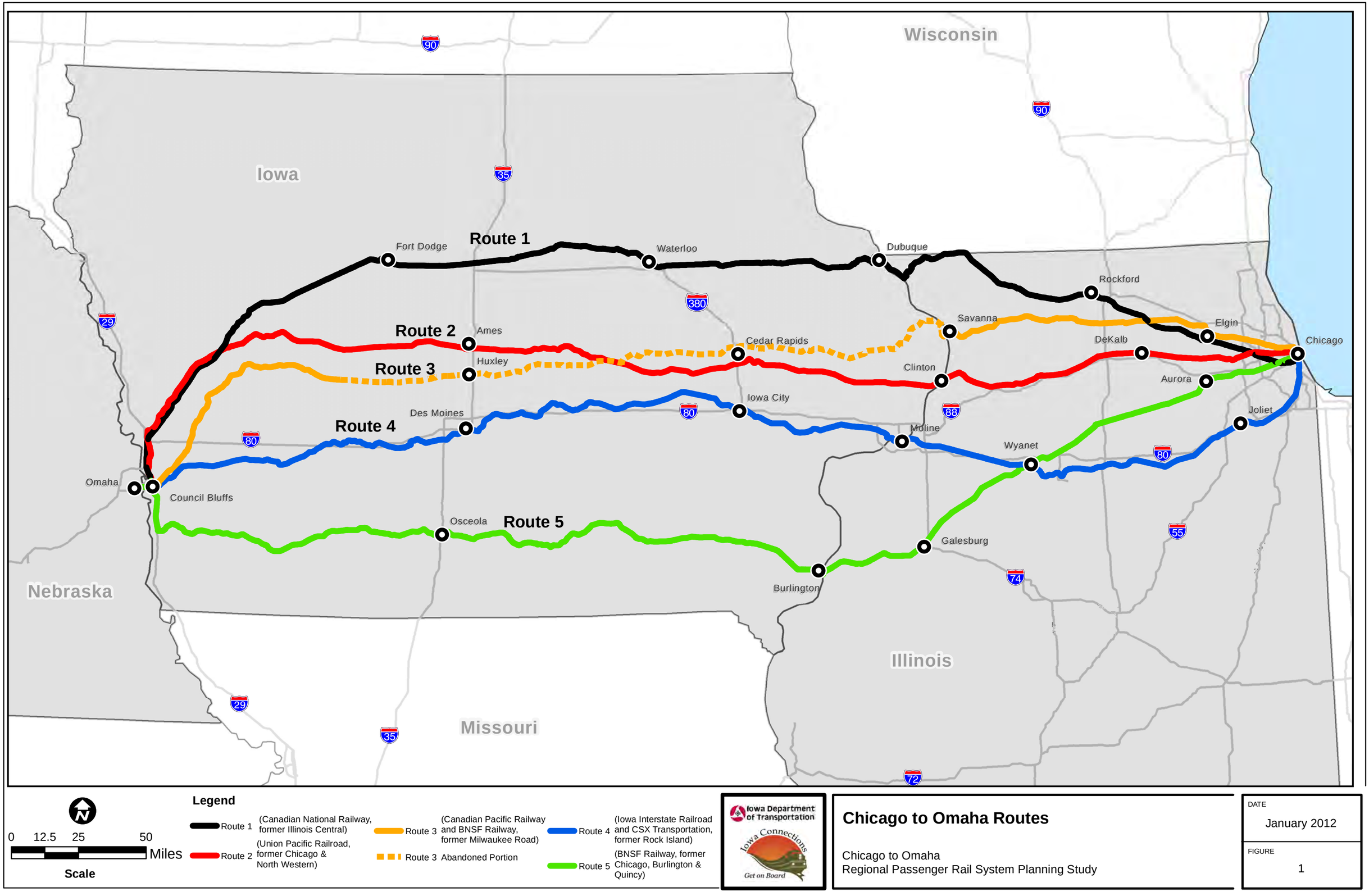

Chicago to Omaha Routes

Chicago to Omaha
Regional Passenger Rail System Planning Study

DATE
January 2012

FIGURE
1

Chicago to Omaha
Regional Passenger Rail System
Planning Study

Meeting Notes

Subject:	Agency Scoping Meeting		
Meeting Date:	2/21/12	Meeting Location:	Ames, Iowa
Notes by:	HDR		

Attendees:

In-person attendees: Andréa Martin (FRA Project Manager), Amanda Martin (Iowa DOT Project Manager), Janet Vine (Iowa DOT NEPA Manager), Phil Meraz (Iowa DOT), Jim Armstrong (Iowa DOT District 5 Engineer), Dylan Mullenix (Des Moines MPO), Will Sharp (HDR Project Manager), John Morton (HDR NEPA Manager), Kelly Farrell (HDR), Tim Flagler (HNTB), and Caron Kloser (HNTB).

On-line attendees: David Studt (USCG), Joe Cothern (EPA), Kip Strauss and Gretchen Ivy (HNTB), Julie Ward (NDEQ), Mark Bechtel (FTA), Brian Goss (HDR).

Topics Discussed:

The meeting commenced at approximately 10:10 am to discuss agency scoping for the Chicago to Omaha Regional Passenger Rail System Planning Study. In-person and on-line attendees introduced themselves. The meeting notes below are organized by a summary of the PowerPoint presentation, followed by questions generated, and the answers provided.

Action/Notes:

Amanda Martin led off the meeting indicating that Iowa DOT received Federal funding in 2009 to start the study, but the effort has been on hold until some things came in to place. The delay of the project being obligated and other factors has led to the need for an aggressive schedule. Andréa Martin noted she was representing FRA as the lead federal agency of the study, and that she is looking forward to working with Iowa DOT and Illinois DOT on the study, and moving ahead with the project. John Morton of HDR introduced the agenda slide of the PowerPoint presentation shown at the meeting in Ames, as well as via the Adobe Connect web link, and indicated that the agenda (provided to the agencies via the notification e-mail) would be followed for the presentation.

John Morton indicated that the Chicago to Omaha Regional Passenger Rail System Planning Study is part of an FRA Track 3 Application for a Planning Grant. FRA is funding half of the study with Iowa funding the remainder. There will be several decisions documented by the study including a preferred route alternative and identification of cities with station stops, speed of trains, and frequency of service. The project is part of the Midwest Regional Rail Initiative (MWRRI), with Chicago as the hub. The study is a Service Level analysis, with a broad, high-level approach to the evaluation of potential route alternatives. A Tier 1 EIS will be prepared, and will identify future Project Level Tier 2 NEPA studies. The Tier 1 Service Level Draft EIS will be distributed for agency and public comment, and comments will be used to prepare a Tier 1 Service Level Final EIS.

The purpose of the project is to provide competitive passenger rail transportation between Chicago and Omaha to help meet future travel demands in the study area. Project needs include increased travel demand from population growth and changing demographics, and an alternative competitive travel mode. The purpose and need statement for scoping is on the public website established for the project, and was provided to agency respondents to the e-mail on the agency scoping meeting.

The major project tasks for this study include the NEPA process, including alternatives analysis, a service development plan, and conceptual engineering. These processes are ongoing concurrently, with the tasks

feeding into each other. The study is starting with evaluation of the five previously established routes that connected Chicago to Omaha: a map of the five routes being considered was displayed and identified routes by numbers 1 through 5: 1 is the CN route, 2 is the UP route, 3 is the former Milwaukee Road route, 4 is the Iowa Interstate route, and 5 is the BNSF route, currently used by the California Zephyr (a daily Amtrak train between Chicago, Illinois and Emeryville, California).

The NEPA task is ongoing with GIS data compilation for evaluation of the route alternatives. The NEPA evaluation will be based on corridor-level impact assessment rather than design footprint related assessment. Corridor decisions will be made in Tier 1, but no infrastructure design will be developed until the Tier 2 project level. Noise, vibration, and air quality are among those resources that will be evaluated and will be based on estimated operational data. General station locations will be defined during Tier 1, but no specific locations will be identified. The Tier 1 EIS will evaluate speeds of 79, 90, and 110 mph service (and consider the relationship between speed, ridership, and revenue), and identify the preferred route alternative. A reasonable cost estimate will be developed for the preferred alternative. All of the study outcomes identified (Tier 1 EIS, preferred route alternative, service development plan, and conceptual engineering) are needed for getting FRA implementation funding in the future.

The Alternatives Analysis Task is ongoing and involves two levels of screening, coarse level (done at a high-level) and fine level, that both use four main categories of evaluation criteria: purpose and need, environmental feasibility, technical feasibility, and economic feasibility. Factors being reviewed include, but are not limited to, right-of-way (ROW) availability, population served, environmental resources, and route length. Fine level screening gets into more detail on the four criteria and their application to the remaining alternatives that pass through the coarse level screening step. Fine level screening will involve a ridership evaluation, more detailed characterization of the environment, ridership and revenue potential, and operating, equipment, and maintenance costs. A screen shot of a typical environmental constraints map review within GIS was shown and was considered during the Tier 1 Service Level EA for the Chicago to Iowa City project. The coarse level and fine level steps will be documented in a Draft Alternatives Analysis Report. This report will be available for agency and public input in the spring 2012 timeframe. Information will be available on-line and also be the topic of public meetings. The input received will be used to finalize the report, and identify one or more specific route alternatives to be evaluated in the Tier 1 EIS.

Tim Flagler discussed the Tier 1 EIS approach for environmental resources. Resource impact methodologies are being developed and will be documented in technical memoranda for each resource. Each memorandum will address the regulatory framework for the resource, data gathered for use in the analysis and compiled into a geographic information system (GIS), description of the resource, and an assessment of high level impact analysis along one or more specific route alternatives remaining after the fine level screening process. Typically, a resource study area is about 500 feet on either side of rail centerline along a route alternative. Potential impacts will be quantified for some resources (by number rather than a specific area) and will be qualified for other resources. Potential mitigation approaches will be characterized, but specific mitigation would be addressed during Tier 2 Project Level NEPA analysis. Technical memoranda will be used for input on resources within sections of Chapter 3 (Affected Environment and Environmental Consequences) of the Tier 1 EIS.

John Morton introduced the schedule, indicating that the study is in the public and agency scoping process stage now, with an on-line open scoping meeting process. The Notice of Intent (NOI) to prepare an EIS has been drafted. Andrea Martin indicated that the NOI will be published in a few weeks. Scoping will continue 30 days after the NOI is published. Public information meetings will be held in spring 2012 for evaluating the range of alternatives, the process for reviewing the alternatives, and on the route alternative(s) to be carried forward in the Tier 1 Service Level EIS. The Draft Tier 1 Service Level EIS is planned to be available for review this fall (with a public hearing), and the Final EIS in winter, followed by the Record of Decision. Future Tier 2 Project Level NEPA documents would address details of the proposed improvements along the preferred route alternative.

Since project inception, the purpose and need has been drafted (and has been sent to responding agencies and is on the public website); public scoping is ongoing using a live public website; initial railroad coordination has been completed; and resource impact methodology, alternatives assessment methodology, and annotated outline for the Tier 1 Service Level EIS have been drafted. An agency and stakeholder

involvement plan has been developed, and coarse level screening is occurring. This is the first agency scoping meeting and a second meeting will be held in Chicago, Illinois tomorrow.

We are seeking agency input to guide study by providing comments on the purpose and need, alternatives process, and resource methodologies. FRA and Iowa DOT are also seeking identification of agency issues of concern and resource information.

John Morton indicated that the public involvement process is ongoing. E-mails to agencies included a link that provides access to the public involvement website. Active public input was discussed noting the number of visitors to the website, those that left comments, and those that requested being placed on a mailing list. There have been several articles in local and regional newspapers and television stations, and there have been paid newspaper advertisements with information on the project. Interested parties can participate through electronic media or phone to request information.

Comments/Responses:

The floor was opened to agency input, and the following is a brief summary of the questions/comments and responses: responses and follow-up interaction on the topic are indented below the question/comment.

David Studt: How is the study looking at major bridges along these routes?

> John Morton: The study will identify major structures that might need to be built or rehabilitated, especially those for Mississippi River and Missouri River crossings; these are important cost items. For example, the Iowa Interstate route crosses the Mississippi River on the Arsenal Bridge, and the Union Pacific is building a new bridge at Clinton Iowa. The Study would look at the 5 routes and specifically river crossing locations to determine the gross needs for expansion, reconstruction, or replacement.

David Studt: What about the Iowa City to Chicago project which was proposed to use the Arsenal Bridge crossing?

> Amanda Martin: For that project, the Iowa legislature did not approve the necessary state match funds during last year's legislative session. The Chicago to Iowa City Project was consequently split into two phases. Chicago to Moline (IL) has state funding and NEPA is ongoing under Illinois DOT direction. The Moline to Iowa City phase will be managed by Iowa DOT, but state match in funding will need to be allocated to progress. The completion of this project will determine the next steps for the Moline to Iowa City phase. Relevant data for the Chicago to Iowa City Project will be used for this Project.

Joe Cothern: Joe is representing US EPA Region 7 and will lead the US EPA effort, but will be consulting with Norm West in Region 5 (which includes Illinois in their region). US EPA will provide a scoping letter on this project with input based on other rail projects, such as lessons learned. US EPA has a comprehensive GIS on environmental resources that can be accessed. He asked whether US EPA would be offered participation as a cooperating agency. They typically have an added response if a letter requests input as a cooperating agency.

> Andréa Martin: FRA will likely have requests for cooperating agencies going out in early March.
>
> Joe Cothern: Good input for US EPA consideration would include any information from public scoping that is asking for US EPA's input on resources of concern.

John Morton: Although we didn't talk much about Nebraska, the western terminus is in Omaha. Big decisions need to be made on where to cross the Missouri River; much of that work will be deferred until Tier 2.

Julie Ward: Let us know how NDEQ can help.

David Studt: Will Draft EIS be available this fall or next fall?

> John Morton: The Draft EIS is planned for distribution this fall in 2012; the overall Tier 1 Service Level NEPA process is planned to be completed before fall 2013. Final EIS is planned to be distributed early spring 2013.

Dylan Mullenix: If anything is needed by local governments, let us know if you need help.

Mark Bechtel: FTA is involved in several intermodal projects in the Midwest. FTA is working with Dubuque, Iowa and Moline, Illinois considering a bus hub and a rail platform. Do cities compete to be on route? Will there be spokes of rail from the City centers along passenger rail to other communities?

> Andréa Martin: The project in Moline is currently under the Chicago to Moline Tier 2 project level effort being led by Illinois; this is a different project but this section of rail does fall within one of the route alternatives.
>
> Andréa Martin: The Chicago to Moline project is an IL DOT-led project. A NEPA Tier 2 Project is ongoing that will address the specific location of the platform and its design characteristics. There will be a conference call next week on the next steps for that project.
>
> Mark Bechtel: To build the rail platform in Dubuque, funding will need to be procured through FRA or TIGER.
>
> Amanda Martin: There will be a conference call with FRA and Iowa DOT on Dubuque next week. The City will probably be moving forward with a TIGER application. [The City of Dubuque told us on 2/22 that they will not be moving forward with a TIGER application.] Illinois DOT is moving forward with a Chicago to Dubuque route.
>
> Mark Bechtel: Dee Phan is an environmental specialist and will be involved in FTA input on the NEPA study.
>
> John Morton: The Study has involved communication with many communities in Iowa and Illinois, but is not designed to promote competition between cities. Moline is along the Iowa Interstate route, and Dubuque is along the CN route. The Study will identify stations only along the routes carried forward for detailed evaluation in the EIS. Cities aren't directly competing with each other. The Tier 1 Analysis will focus on the alternative route corridor, without getting into detail at tie-in points. For example, all route alternatives are proposed for crossing into Nebraska as the western terminus, but specifics of that crossing will not be known during Tier 1; most of specificity will be addressed during Tier 2.
>
> Mark Bechtel: The developments with rail opportunities are exciting, and Dubuque and Moline are both planning ahead.
>
> John Morton: Illinois DOT plans to use state funds for an intercity passenger rail line between Chicago and Dubuque. Federal funds are planned for Chicago to Moline. Both of those projects would be based on conventional speeds (up to 79 mph), but the Chicago to Omaha study will look at speeds of 79, 90, and 110 mph and evaluate what the speed differences might do for revenue and ridership.

Mark Bechtel: Will PowerPoint be available on website?

> Amanda Martin: The PowerPoint will be sent to the attendees of the scoping meeting. There appears to be a need for clearly explaining the interrelationships of the different projects in the EIS as well as to the public.

John Morton: The project website for the public will be updated with information on different projects to differentiate them. At this stage of the Chicago to Omaha project, probably will primarily identify cities that could be directly served by different routes.

Kelly Farrell: The Tier 1 EIS will have a section with a discussion on other projects.

Dylan Mullenix: There was mention that the coarse analysis would look at population. Will there be a comparison with highway traffic or would that be in subsequent evaluations?

> John Morton: Overall purpose and need will address ridership through comparison of competitive mode. Currently, 97% of the traffic between Chicago and Omaha is via passenger automobile for an 8-hour trip. Modal review of ridership will be part of the coarse level and fine level analysis. The study will look at populations along each corridor, evaluate modal opportunities, and review potential populations to be served. The configuration of how the system would work, accounting for highway traffic, would be addressed during Tier 2.

Caron Kloser: Will the NEPA process address an implementation plan due to funding not being all available at one time?

> John Morton: FRA has asked to define how the service could be implemented. It is most likely that full funding would not be available, but smaller amounts of funding should be available to phase in segments. The Tier 1 EIS will have an implementation section to show how reasonable investment can partially meet goals and be used before future improvements can be funded.

Kelly Farrell and Amanda Martin discussed and showed components of the public website, and showed agencies the basic method of operating and viewing the website. The method for downloading PDFs was demonstrated. The website was recommended for internal agency use, and to provide access to others.

Action Items:

- FRA will send out Cooperating Agency letters after the NOI is published. [letters were sent]
- Iowa DOT will put NOI on website once it is published. [NOI link placed on website]
- Iowa DOT will note scoping meeting end date on website. [scoping end date noted on website]
- Iowa DOT will send PowerPoint to group of attendees. [PowerPoint was sent to attendees]
- Iowa DOT will supplement the website with information to help clarify and differentiate various rail passenger projects. [website was supplemented with additional information]

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Chicago to Omaha

Regional Passenger Rail System Planning Study

Meeting: Ames Agency Scoping Date: 2/21/12

	Name	Organization	Address	City, State & Zip	Email
1.	Kelly Farrell	HDR	8404 Indian Hills Dr	Omaha, NE 68114	Kelly.Farrell@hdrinc.com
2.	Tim Flagler	HNTB	715 Kirk Dr.	Kansas City, MO 64105	tflagler@hntb.com
3.	Caron Kloser	"	11414 W. Park Place, Suite 300	Milwaukee, WI 53224	ckloser@hntb.com
4.	Dylan Mullenix	Des Moines Area MPO	420 Watson Powell, Jr. Pkwy, Ste 200	Des Moines, IA 50309	dmullenix@dmampo.org
5.	Andrea Martin	FRA	1200 NJ. AVE SE WASHINGTON DC	20590	andrea.Martin@dot.gov
6.	Jim Armstrong	Iowa DOT D5	307 West Briggs, Fairfield, IA 52556		james.armstrong@dot.iowa.gov
7.	Janet Vine	IA DOT	800 Lincoln Way, Ames, IA 50010	→	janet.Vine@dot.iowa.gov
8.	PHIL MERAZ	IA DOT	" "	"	phillip.meraz@dot.iowa.gov
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Chicago to Omaha
Regional Passenger Rail System
Planning Study

Meeting Notes

Subject:	Agency Scoping Meeting		
Meeting Date:	2/22/12	Meeting Location:	Chicago, Illinois
Notes by:	HDR		

Attendees:

In-person attendees included: Andréa Martin (FRA Project Manager), Michael Garcia (Illinois DOT), Todd Popish (Illinois DOT), Norm West (USEPA), Shawn Cirton (USFWS), Frank Shockey (FEMA), John Morton (HDR NEPA Manager), Janice Reid (HDR), Angela Brazzale (HDR).

On-line attendees: Amanda Martin (Iowa DOT Project Manager), Janet Vine (Iowa DOT NEPA Manager), Walt Zyznieuski (Illinois DOT), Tim Flagler (HNTB), Gretchen Ivy (HNTB), Kelly Farrell (HDR), Brian Goss (HDR).

Topics Discussed:

The meeting commenced at approximately 1:00 pm to discuss agency scoping for the Chicago to Omaha Regional Passenger Rail System Planning Study. In-person and on-line attendees introduced themselves. The meeting notes below are organized by a summary of the PowerPoint presentation, followed by questions generated, and the answers provided. Although much of the question and answer process occurred during the presentation portion of the meeting, the flow of the presentation summary would have been disrupted by including them when they occurred; consequently the meeting summary is not in precise chronologic order.

Action/Notes:

Amanda Martin led off the meeting indicating that Iowa DOT received Federal funding in 2009 to start the study, but the effort has been on hold until some things came in to place. The delay of the project being obligated and other factors has led to the need for an aggressive schedule. Andréa Martin noted she was representing FRA as the lead federal agency of the study, and that she is looking forward to working with Iowa DOT and Illinois DOT on the study, and moving ahead with the project. John Morton of HDR introduced the agenda slide of the PowerPoint presentation shown at the meeting in Chicago, as well as via the Adobe Connect web link, and indicated that the agenda (provided to the agencies via the notification e-mail) would be followed for the presentation.

John Morton indicated that the Chicago to Omaha Regional Passenger Rail System Planning Study is part of an FRA Track 3 Application for a Planning Grant. FRA is funding half of the study with Iowa funding the remainder. There will be several decisions documented by the study including a preferred route alternative and identification of cities with station stops, speed of trains and frequency of service. The project is part of the Midwest Regional Rail Initiative (MWRRI), with Chicago as the hub. The study is a Service Level analysis, with a broad, high-level approach to the evaluation of potential route alternatives. A Tier 1 EIS will be prepared, and will identify future Project Level Tier 2 NEPA studies. The Tier 1 Service Level Draft EIS will be distributed for agency and public comment, and comments will be used to prepare a Tier 1 Service Level Final EIS.

The purpose of the project is to provide competitive passenger rail transportation between Chicago and Omaha to help meet future travel demands in the study area. Project needs include increased travel demand from population growth and changing demographics, and an alternative competitive travel mode. The purpose and need statement for scoping is on the public website established for the project, and was provided to agency respondents to the e-mail on the agency scoping meeting.

The major project tasks for this study include the NEPA process, including alternatives analysis, a service development plan, and conceptual engineering. These processes are ongoing concurrently, with the tasks feeding into each other. The study is starting with evaluation of the five previously established routes that connected Chicago to Omaha: a map of the five routes being considered was displayed and identified routes by numbers 1 through 5: 1 is the CN route, 2 is the UP route, 3 is the former Milwaukee Road route, 4 is the Iowa Interstate route, and 5 is the BNSF route, currently used by the California Zephyr (a daily Amtrak train between Chicago, Illinois and Emeryville, California).

The NEPA task is ongoing with GIS data compilation for evaluation of the route alternatives. The NEPA evaluation will be based on corridor-level impact assessment rather than design footprint related assessment. Corridor decisions will be made in Tier 1, but no infrastructure design will be developed until the Tier 2 project level. Noise, vibration, and air quality are among those resources that will be evaluated and will be based on estimated operational data. General station locations will be defined during Tier 1, but no specific locations will be identified. The Tier 1 EIS will evaluate speeds of 79, 90, and 110 mph service (and consider the relationship between speed, ridership, and revenue), and identify the preferred route alternative. A reasonable cost estimate will be developed for the preferred alternative. All of the study outcomes identified (Tier 1 EIS, preferred route alternative, service development plan, and conceptual engineering) are needed for getting FRA implementation funding in the future.

The Alternatives Analysis Task is ongoing and involves two levels of screening, coarse level (done at a high-level) and fine level, that both use four main categories of evaluation criteria: purpose and need, environmental feasibility, technical feasibility, and economic feasibility. Factors being reviewed include, but are not limited to, right-of-way (ROW) availability, population served, environmental resources, and route length. Fine level screening gets into more detail on the four criteria and their application to the remaining alternatives that pass through the coarse level screening step. Fine level screening will involve a ridership evaluation, more detailed characterization of the environment, ridership and revenue potential, and operating, equipment, and maintenance costs. A screen shot of a typical environmental constraints map review within GIS was shown and was considered during the Tier Service Level 1 EA for the Chicago to Iowa City project. The coarse level and fine level steps will be documented in a Draft Alternatives Analysis Report. This report will be available for agency and public input in the spring 2012 timeframe. Information will be available on-line and also be the topic of public meetings. The input received will be used to finalize the report, and identify one or more specific route alternatives to be evaluated in the Tier 1 EIS.

Tim Flagler discussed the Tier 1 EIS approach for environmental resources. Resource impact methodologies are being developed and will be documented in technical memoranda for each resource. Each memorandum will address the regulatory framework for the resource, data gathered for use in the analysis and compiled into a geographic information system (GIS), description of the resource, and an assessment of high level impact analysis along one or more specific route alternatives remaining after the fine level screening process. Typically, a resource study area is about 500 feet on either side of rail centerline along a route alternative. Potential impacts will be quantified for some resources (by number rather than a specific area) and will be qualified for other resources. Potential mitigation approaches will be characterized, but specific mitigation would be addressed during Tier 2 Project Level NEPA analysis. Technical memoranda will be used for input on resources within sections of Chapter 3 (Affected Environment and Environmental Consequences) of the Tier 1 EIS.

John Morton introduced the schedule, indicating that the study is in the public and agency scoping process stage now, with an online open scoping meeting process. The Notice of Intent (NOI) to prepare an EIS has been drafted. Andréa Martin indicated that the NOI will be published in a few weeks. Scoping will continue 30 days after the NOI is published. Public information meetings will be held in spring 2012 for evaluating the range of alternatives, the process for reviewing the alternatives, and on the route alternative(s) to be carried forward in the Tier 1 Service Level EIS. The Draft Tier 1 Service Level EIS is planned to be available for review this fall (with a public hearing), and the Final EIS in winter, followed by the Record of Decision. Future Tier 2 Project Level NEPA documents would address details of the proposed improvements along the preferred route alternative.

Since project inception, the purpose and need has been drafted (and has been sent to responding agencies and is on the public website); public scoping is ongoing using a live public website; initial railroad coordination

has been completed; and resource impact methodology, alternatives assessment methodology, and annotated outline for the Tier 1 Service Level EIS have been drafted. An agency and stakeholder involvement plan has been developed, and coarse level screening is occurring. The first agency scoping meeting was held yesterday in Ames, Iowa.

We are seeking agency input to guide study by providing comments on the purpose and need, alternatives process, and resource methodologies. FRA and Iowa DOT are also seeking identification of agency issues of concern and resource information.

John Morton indicated that the public involvement process is ongoing. E-mails to agencies included a link that provides access to the public involvement website. Active public input was discussed noting the number of visitors to the website, those that left comments, and those that requested being placed on a mailing list. There have been several articles in local and regional newspapers and television stations, and there have been paid newspaper advertisements with information on the project. Interested parties can participate through electronic media or phone to request information.

Comments/Responses:

The floor was opened to agency input, and the following is a brief summary of the questions/comments and responses: responses and follow-up interaction on the topic are indented below the question/comment.

Michael Garcia: Is there a memorandum of understanding (MOU) between Iowa DOT and Illinois DOT to study potential routes within the state of Illinois?

> Amanda Martin: Iowa DOT has had some previous discussions about the project with George Weber of Illinois DOT but she couldn't recall if an MOU was specifically discussed. Amanda will discuss an MOU specifically with Ms. Tammy Nicholson of Iowa DOT and get back to Illinois DOT.

Norm West: How is this project different than the Chicago to Iowa City project, and what is the status of that project? Are previous NEPA documents being put aside and is there a fresh start with this project?

> John Morton: For that project, the Iowa legislature did not approve the state match last year. The Chicago to Iowa City Project was consequently split into two projects: Chicago to Moline, IL has state funding and NEPA is ongoing under Illinois DOT direction and Moline to Iowa City, IA. The Moline to Iowa City project will be managed by Iowa DOT, but state match in funding will need to be allocated to progress. Relevant data for the Chicago to Iowa City project will be used for this Project. The Tier 1 Service Level EIS for the Chicago to Omaha project will have a section with a discussion on the other projects.
>
> Andréa Martin: FRA issued a FONSI for the Tier 1 Service Level Chicago to Iowa City project in November 2011; the FONSI included a list of actions that need to be completed during Tier 2. She will send a copy of the FONSI to USEPA. None of the previous studies are being put aside and are moving along different and independent schedules. Information from past NEPA documents will be taken into account as part of this project's analysis. Iowa DOT will send the PowerPoint to attendees of the scoping meeting, as well as USACE. There appears to be a need for clearly explaining the interrelationships of the different projects in the EIS as well as to the public. Agency comments that were received previously as part of the Chicago to Iowa City, Chicago to Dubuque (IA), and Chicago to Moline (IL) projects will be considered as part of the historical record for the Tier 1 EIS. This project somewhat overlaps with the Chicago to Iowa City project because it could share some of the same track.
>
> Michael Garcia: The Tier 1 Service Level EA for Chicago to Iowa City is being reassessed by Illinois DOT for the Chicago to Moline section of the route. The Tier 2 Project Level EA has not yet started.

Norm West: Could you please send a direct link for the files you are directing us to rather than just noting the files are on the website?

John Morton: The project website for the public will be updated with information on different projects to differentiate them. A direct link to this information will be provided. At this stage of the Chicago to Omaha project, the level of information for website update will likely be identification of cities that could be directly served by different routes.

Michael Garcia: Illinois DOT intends to include all NEPA projects for Illinois passenger rail projects on an interactive map of Illinois. Amanda Martin should send an email to Miriam Gutierrez requesting that the Illinois DOT High Speed Rail (HSR) link be linked to the Chicago to Omaha project website. We are working toward getting this site fully functional.

Andréa Martin: Past documents as well as those for review on current projects could be posted to links. The Chicago to Detroit project hasn't started yet. FRA will discuss the use of the interactive map with Illinois DOT. FRA will likely have requests for cooperating agencies going out in early March, at the same time the NOI is published (possibly on March 9th). The scoping period will then be open for 30 days from NOI publication.

Norm West: Will the Chicago to Omaha Tier 1 EIS look at broader agency issues? Are you looking for resource agency input on resources such as threatened and endangered species that may be in the area or issues with major water crossings?

John Morton: Yes. Input is being sought from agencies on broad issues and readily-available data. More specific analysis would occur during Tier 2 Project Level analysis.

Shawn Cirton: Because federal agencies have different permitting responsibilities, they may ask for some more detailed information, which might typically be done in Tier 2.

Michael Garcia: The FHWA Tier 1 Process is different than the FRA Tier 1 Process; however, they both still follow NEPA.

Andréa Martin: The FRA has its own implementing regulations, per CEQ. FRA will state clearly the regulations that are being followed in the Tier 1 Service Level EIS and the NOI, and the level of analysis during Tier 1 Service Level and Tier 2 Project Level.

Michael Garcia: Based on his understanding, it doesn't appear that the screening criteria will be reviewed by the agencies or public prior to proceeding with the screening process. Is the intent to eliminate alternatives during screening to a single alternative?

John Morton: The screening criteria and methods are being developed and reviewed by FRA. The coarse level screening process has begun. The website is currently receiving comments on the project. The Draft Alternatives Analysis Report on the alternatives analysis (which will include both the coarse and fine level screening processes) will be placed on the public website for agency and public review, and public meetings will be held in spring 2012. Comments will be considered and used to create a Final Alternatives Analysis Report. What comes out of the Report will be the range of reasonable and feasible alternatives carried forward in the EIS; the intent of the screening is to potentially get down to a single alternative to carry forward in the EIS. The Final Alternatives Analysis Report will be summarized and make up the bulk of Chapter 2 of the EIS.

Amanda Martin: Iowa DOT will provide Walt Zyznieuski the screening criteria for review. Michael Garcia will be copied on everything; Walt will receive information as it pertains to NEPA. Determining the preferred route alternative is FRA's decision.

Janet Vine: The public will have opportunities to provide input on the alternatives screening process. The Draft Alternatives Analysis Report will be published and posted for review, with the public able to provide comments through the publish website or during meetings.

Shawn Cirton: Please review wildlife impacts from noise as well as human impacts (similar to what was done for CN-EJE acquisition). Has the USFWS Rock Island Field Office been contacted concerning this project?

The Rock Island office will likely be the lead contact for USFWS. Shawn Cirton will provide FRA with the contact information for the USFWS Rock Island office.

> Andréa Martin: The Rock Island Office will be coordinated with concerning this project [an e-mail invitation to scoping was provided] and will receive the cooperating agencies letter from FRA in March.

Michael Garcia: Will the Tier 1 EIS be done in a phased approach to identify what you anticipate in the Tier 2 documents or will it address building the entire project at once? Will it address an implementation plan due to funding not being all available at one time? Will it recommend what is needed for Tier 2?

> John Morton: FRA has asked Iowa DOT to define how the service could be implemented. It is most likely that full funding would not be available, but smaller amounts of funding should be available to phase in study and development of segments. The Tier Service Level 1 EIS will have an implementation section to show how reasonable investment can partially meet goals and be used before future improvements can be funded. The Record of Decision (ROD) will also have an implementation strategy and will discuss what is needed in Tier 2.
>
> Andréa Martin: An implementation plan will be included in the EIS and the ROD. Based on funding constraints, the project would definitely need a phased approach.
>
> John Morton: The phased approach with an implementation plan is consistent with the philosophy of the MWRRI. The project could be phased geographically as well as in frequency and speed.

Michael Garcia: Will the Tier 1 EIS look at Chicago Union Station (CUS) capacity? There are other projects going on which add more trains into CUS; for example Illinois and Michigan both have projects at the Tier 1 stage that would add more trains. At some point, CUS won't be able to handle more trains.

> John Morton: The two challenges are on both termini – getting into CUS and getting across the river into Omaha. Neither challenge will be solved at the Tier 1 Service Level but there will be enough analysis to show that it can be done, with detailed evaluations to be completed in Tier 2. So CUS capacity will definitely be analyzed during Tier 1; it will be identified as a constraint and a problem.

Michael Garcia: Has coordination been performed with host railroads on how passenger trains will interact with freight trains?

> John Morton: Early coordination has been performed with host railroads concerning the awareness of the project. The railroads haven't signed any agreements on operations or use of tracks, but have responded that they are willing to work with FRA and Iowa DOT on the potential development with various caveats.

Shawn Cirton: Please provide USFWS offices with a more detailed map of the Illinois counties they serve so they can provide more substantive comments

> Andréa Martin: FRA will include the requested map with the cooperating agencies letter.

Frank Shockey: FEMA has new Illinois mapping available in GIS. We should call him if we have trouble obtaining GIS data from FEMA's website. We also should reach out to Iowa and Nebraska FEMA agencies. The new FEMA maps do not reflect recent climate change discussions, so they may change again.

> Norm West: Suggests that it would be wise to consider increased rains and flooding possibilities in the future and not to rely solely on the past data.
>
> Andréa Martin: Future increased rains and flooding possibilities would be examined in Tier 2.
>
> Frank Shockey: When looking at specific infrastructure requirements in Tier 2, we will need to look at impacts on flooding. There may be more revised flood maps in the next few years.

Norm West: Have station locations been identified?

> John Morton: We have potential locations identified for the termini, and at some midpoints. The dots on the map (provided with the e-mail notification of the scoping meeting) of route alternatives do not indicate specific locations. Potential station locations will be identified during the fine level screening process. During coarse level screening, we are only looking at population served/ridership potential. Some of the routes go through more densely populated areas than others. The Chicago area population skews the analysis of potential station locations because the population served in the Chicago is so high. For comparisons of the population served along potential routes, we are excluding Chicago and Omaha during coarse level screening because all of the route alternatives will serve those cities.

John Morton and Amanda Martin discussed and showed components of the public website, and showed agencies the basic method of operating and viewing the website. The method for downloading PDFs was demonstrated. The website was recommended for internal agency use, and to provide access to others. The website tracks use; the highest number of hits have been from 1-3 in the afternoon and 9-11 at night, which is not when public meetings are typically held. The website is similar to what had been used for the Canadian National project but has evolved considerably since then.

Action Items:

- FRA will send out Cooperating Agency letters after the NOI is published. [letters were sent]
- FRA will contact Rock Island USFWS as part of agency coordination. [agency coordination occurred]
- FRA will provide more detailed maps of potential routes near Chicago area for USFWS review. [maps sent to USFWS]
- FRA to send FONSI for Chicago to Iowa City Tier 1 Service Level EA to Norm West. [FONSI sent]
- FRA to include reference to FRA environmental procedures in the NOI. [NOI for EIS referenced FRA procedures]
- Iowa DOT will have an internal discussion regarding an MOU with Illinois DOT. [Iowa DOT discussed situation with Illinois DOT]
- Iowa DOT will send PowerPoint to the meeting attendees and USACE who was not in attendance. [PowerPoint was sent to attendees and USACE, who responded but did not attend the meeting]
- Iowa DOT will supplement the Iowa DOT project website with information to help clarify and differentiate various rail passenger projects. [website was supplemented with additional information]
- Iowa DOT will provide HDR with agency comments that were received previously for the NEPA effort for the Chicago to Dubuque project. [agency comments were provided]
- Iowa DOT to send Illinois DOT an email to Miriam Gutierrez with logo that formally requests that a link to the Chicago to Omaha project be added to the Illinois DOT HSR website. [request sent to Illinois DOT]
- Iowa DOT will ensure that Michael Garcia and Walt Zyznieuski receive the Alternatives Analysis methodology and Alternatives Analysis documents for review. [documents were provided to Illinois DOT designees for review]
- Illinois DOT will provide HDR with agency comments that were received previously for the NEPA effort for the Chicago to Moline project. [agency comments were provided]

Chicago to Omaha

Regional Passenger Rail System Planning Study

Meeting: Chicago to Omaha Reg. Passenger Rail Study Agency Scoping Meeting - Chicago Date: Feb. 22, 2012

	Name	Organization	Address	City, State & Zip	Email
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2.	John Morton	HDR	8404 Indian Hills Dr.	Omaha, NE 68114	john.morton@hdrinc.com
3.	MICHAEL GARCIA	IDOT	2300 S. DIRKSON PKWY, [illegible]	SPRINGFIELD, IL 62764	MIKE.GARCIA@ILLINOIS.GOV
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5.	Todd Popiel	IDOT	100 W Randolph Suite 6-600 Chicago	Chicago IL 60601	todd.popiel@illinois.gov
* 6.	Amanda Martin	Iowa DOT			
* 7.	Janet Vine	Iowa DOT			
* 8.	Walt Zyzlewski	IDOT			
* 9.	Brian Goss	HDR			
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* 13.	Tim Flagler	HNTB			
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* 15.	Kelly Farrell	HDR			
* 16.	Gretchen Ivy	HNTB			
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20.					

* Via Teleconference

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265
Phone: (309) 757-5800 Fax: (309) 757-5807

IN REPLY REFER TO:
FWS/RIFO

April 16, 2012

Ms. Amanda Martin
Freight and Passenger Policy Coordinator Office of Rail Transportation
Iowa Department of Transportation
800 Lincoln Way
Ames, Iowa 50010

Dear Ms. Martin:

This is in regard to your request for our comments on the proposed Regional Passenger Rail System from Chicago, Illinois, to Omaha, Nebraska – Tier 1 Environmental Impact Statement (EIS) proposed by Department of Transportation (DOT), Federal Railroad Administration (FRA), and Iowa Department of Transportation (IADOT). For the purposes of this letter we will provide information relative to all portions of the project, including Douglas County, Nebraska.

Our data indicate that the species on the enclosed list may occur in the counties of your proposed action. Descriptions of the habitat requirements are included with the list. You may use these descriptions to help you determine if there is suitable habitat within your project area.

In order to address potential impacts to federally listed species on the enclosed list, we recommend that you initiate the Section 7 process by obtaining an official species list and following the steps outlined at http://www.fws.gov/midwest/Endangered for Region 3 (Illinois and Iowa) and http://www.fws.gov/mountain-prairie/endspp/ for Region 6 (Douglas County, Nebraska). Through internal review and analysis, you may make a determination(s) regarding whether listed species would be impacted. By following the instructions, you can determine what your action area is, whether listed species may be found within the action area, and if the project may affect listed species. You will find several products on the site that can streamline the consultation process for this and future projects. When determining if listed species may be located within a project area, you can download county specific species lists for all of the states in Region 3 and Region 6.

We also recommend that the project be evaluated for potential impacts to wildlife, particularly migratory birds, from increased noise and vibration resulting from increases in train frequency and speed for the alternatives considered.

We are particularly interested in the feasibility of alternative Route 4 because the portion of the route between Joliet, Illinois, and Chicago, Illinois, could be combined with a potential alternative for the Chicago to St. Louis high speed rail project. The Chicago Field Office has previously identified this potential alternative, carrying passengers east of Joliet, because it would eliminate adverse impacts to the Hine's emerald dragonfly (*Somatochlora hineana*) located in the Lower Des Plaines River Valley. Improvements to the portion of the route between Joliet and Chicago could serve both high speed rail projects and eliminate impacts to the Hine's emerald dragonfly.

National Wetland Inventory maps indicate that there may be wetlands within and adjacent to the project area for all potential alternatives. These areas may be affected by the proposed project. The Corps of Engineers is the Federal agency responsible for wetland regulation, and we recommend that you contact them for assistance in delineating the wetland types and acreage within the project boundary. Priority consideration should be given to avoid impacts to these wetland areas. Any future activities in the study area that would alter these wetlands may require a Section 404 permit. Unavoidable impacts will require a mitigation plan to compensate for any losses of wetland functions and values. The U.S. Army Corps of Engineers, Clock Tower Building, P.O. Box 2004, Rock Island, Illinois, 61201, should be contacted for information about the permit process.

These comments are provided as technical assistance in accordance with the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq) and the National Environmental Policy Act of 1969 (83 Stat. 852, as amended; 42 U.S.C. 4321 et seq). If you have any questions regarding our comments, please contact Heidi Woeber of my staff at (309) 757-5800, extension 209.

Sincerely,

for Richard C. Nelson
Field Supervisor

Enclosure

cc: USDOT/FRA (Andrea Martin)
USFWS-Barrington (Cirton, Lah)
USFWS-Grand Island (George)

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Iowa
County Distribution of Federally Threatened, Endangered, Proposed and Candidate Species

County	Common Name	Scientific Name	Status	Habitat
Adair	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Adams	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Allamakee	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
Appanoose	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Audubon	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Benton	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Black Hawk	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Boone	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Bremer	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Buchanan	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Buena Vista	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Butler	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Calhoun	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Carroll	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Cass	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Cedar	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Cerro Gordo	*Poweshiek skipperling	*Oarisma poweshiek*	Candidate	Remnants of tallgrass prairie
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Cherokee	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Chickasaw	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Clarke	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Mead's milkweed	*Asclepias meadii*	Threatened	
Clay	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Clayton	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Clinton	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
Crawford	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Dallas	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Davis	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Decatur	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
Delaware	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Northern monkshood	*Aconitum novaboracense*	Threatened	
Des Moines	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Spectaclecase mussel	*Cumberlandia monodonta*	Endangered	Large rivers in areas sheltered from the main force of the current
Dickinson	*Poweshiek skipperling	*Oarisma poweshiek*	Candidate	Remnants of tallgrass prairie

	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Dakota skipper	*Hesperia dacotae*	Candidate	Prairies
Dubuque	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
Emmet	*Poweshiek skipperling	*Oarisma poweshiek*	Candidate	Remnants of tallgrass prairie
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Fayette	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
Floyd	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Franklin	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Fremont	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Pallid sturgeon	*Saphirhynchus albus*	Endangered	Large rivers
Greene	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Grundy	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Guthrie	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Hamilton	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Hancock	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered	Prairie streams and rivers
	*Poweshiek skipperling	*Oarisma poweshiek*	Candidate	Remnants of tallgrass prairie
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Hardin	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Northern monkshood	*Aconitum novaboracense*	Threatened	
Harrison	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
Henry	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)

	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Howard	*Poweshiek skipperling	*Oarisma poweshiek*	Candidate	Remnants of tallgrass prairie
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Humboldt	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Ida	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Iowa	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Jackson	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
Jasper	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Jefferson	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Johnson	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
	Eastern massasauga	*Sistrurus catenatus*	Candidate	
Jones	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
Keokuk	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Kossuth	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered	Prairie streams and rivers
	*Poweshiek skipperling	*Oarisma poweshiek*	Candidate	Remnants of tallgrass prairie
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Lee	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Sheepnose mussel	*Plethobasus cyphyus*	Endangered	Shallow areas in larger rivers and streams
	Spectaclecase mussel	*Cumberlandia monodonta*	Endangered	Large rivers in areas sheltered from the main force of the current
Linn	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)

	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Louisa	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Eastern massasauga	*Sistrurus catenatus*	Candidate	
Lucas	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Lyon	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Madison	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Mahaska	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)

	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Marion	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Marshall	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Mills	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
	Eastern massasauga	*Sistrurus catenatus*	Candidate	
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Mitchell	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Monona	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Monroe	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Montgomery	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Muscatine	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern massasauga	*Sistrurus catenatus*	Candidate	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Sheepnose mussel	*Plethobasus cyphyus*	Endangered	Shallow areas in larger rivers and streams
	Spectaclecase mussel	*Cumberlandia monodonta*	Endangered	Large rivers in areas sheltered from the main force of the current
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
O'Brien	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Osceola	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	*Poweshiek skipperling	*Oarisma poweshiek*	Candidate	Remnants of tallgrass prairie
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Page	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Palo Alto	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Plymouth	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Pocahontas	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Polk	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Least tern	*Sterna antillarum*	Endangered	Bare alluvial and dredged spoil islands
Pottawattamie	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Least tern	*Sterna antillarum*	Endangered	Bare alluvial and dredged spoil islands
	Piping plover	*Charadrius melodus*	Endangered	
	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
	Eastern massasauga	*Sistrurus catenatus*	Candidate	
Poweshiek	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Ringgold	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
Sac	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Scott	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Sheepnose mussel	*Plethobasus cyphyus*	Endangered	Shallow areas in larger rivers and streams
	Spectaclecase mussel	*Cumberlandia monodonta*	Endangered	Large rivers in areas sheltered from the main force of the current
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Shelby	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Sioux	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Story	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Tama	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Taylor	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Union	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Van Buren	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Wapello	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Warren	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
Washington	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Wayne	Indiana bat Map of Indiana Bat range in Iowa (PDF)	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Webster	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Winnebago	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Winnishiek	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Woodbury	Least tern	*Sterna antillarum*	Endangered	Bare alluvial and dredged spoil islands
	Piping plover	*Charadrius melodus*	Endangered	
	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Worth	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Wright	Topeka shiner Map of Topeka Shiner range in Iowa (PDF)	*Notropis topeka*	Endangered and Critical Habitat	Prairie streams and rivers
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

Illinois
Federally Endangered, Threatened, and Candidate Species

List Revised March 2012

County	Species	Status	Habitat
Adams **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Alexander **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Gray bat *(Myotis grisescens)*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Pallid sturgeon *(Scaphirynchus albus)*	Endangered	Large rivers
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Ohio River
	Sheepnose mussel (*Plethobasus cyphyus*)	Endangered	Shallow areas in larger rivers and streams
Bond **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Piping plover *Charadrius melodus*	Endangered	May be present in Bond County during migration.
	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies

County	Species	Status	Habitat
Boone **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Brown **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Bureau **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)* *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Calhoun **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Carroll **Field Office to Contact:** U.S. Fish and Wildlife Service	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)

County	Species	Status	Habitat
Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Cass **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Prairie bush clover *(Lespedeza leptostachya) (Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Champaign **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Christian **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Clark **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Wabash River

County	Species	Status	Habitat
8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Clay **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Clinton **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Piping plover *Charadrius melodus*	Endangered	May be present in Clinton County during migration.
	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Lakeside daisy *(Hymenoxys acaulis var. glabra)*	Threatened	Dry rocky prairies
Coles **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Snuffbox (*Epioblasma triquetra*)	Endangered	Small to medium-sized creeks and some larger rivers, in areas with a swift current
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Cook **Field Office to Contact:** USFWS Chicago Illinois FO 1250 South Grove, Suite 103	Piping plover *Charadrius melodus*	Endangered	Lakeshore beaches
	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)

County	Species	Status	Habitat
Barrington, Illinois 60010 (847) 381-2253 e:mail Chicago@fws.gov Cathy_Pollack@fws.gov	Hine's emerald dragonfly *(Somatochlora hineana)*	Endangered	Spring fed wetlands, wet meadows and marshes
	Hine's emerald dragonfly *(Somatochlora hineana)*	Critical Habitat Designated	Go here for a map and written description of the areas designated as Critical Habitat (PDF)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)* Go here for specific guidance on how to determine whether this species is present on a site.	Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie
	Leafy-prairie clover *(Dalea foliosa)*	Endangered	Prairie remnants on thin soil over limestone
	Mead's milkweed *(Asclepias meadii)*	Threatened	Late successional tallgrass prairie, tallgrass prairie converted to hay meadow, and glades or barrens with thin soil
	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Crawford **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Wabash River
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Cumberland **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Snuffbox (*Epioblasma triquetra*)	Endangered	Small to medium-sized creeks and some larger rivers, in areas with a swift current
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
DeKalb **Field Office to Contact:** U.S. Fish and Wildlife Service	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)

County	Species	Status	Habitat
Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
DeWitt **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Douglas **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Snuffbox (*Epioblasma triquetra*)	Endangered	Small to medium-sized creeks and some larger rivers, in areas with a swift current
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Dupage **Field Office to Contact:** USFWS Chicago Illinois FO 1250 South Grove, Suite 103 Barrington, Illinois 60010 (847) 381-2253 e:mail Chicago@fws.gov Cathy_Pollack@fws.gov	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Hine's emerald dragonfly *(Somatochlora hineana)*	Endangered	Spring fed wetlands, wet meadows and marshes
	Hine's emerald dragonfly *(Somatochlora hineana)*	Critical Habitat Designated	Go here for a map and written description of the areas designated as Critical Habitat (PDF)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)* Go here for specific guidance on how to determine whether this species is present on a site.	Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie
	Leafy-prairie clover *(Dalea foliosa)*	Endangered	Prairie remnants on thin soil over limestone

County	Species	Status	Habitat
	Mead's milkweed *(Asclepias meadii)*	Threatened	Late successional tallgrass prairie, tallgrass prairie converted to hay meadow, and glades or barrens with thin soil
	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Edgar **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Edwards **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
Effingham **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Fayette **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Piping plover *Charadrius melodus*	Endangered	May be present in Fayette County during migration.
	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)

County	Species	Status	Habitat
e:mail Marion@fws.gov	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Ford **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Mead's milkweed *(Asclepias meadii)*	Threatened	Virgin prairies
Franklin **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Piping plover *Charadrius melodus*	Endangered	May be present in Franklin County during migration.
Fulton **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Gallatin **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Fat pocketbook mussel *(Potamilis capax)*	Endangered	Mississippi, Wabash, Little Wabash, Ohio Rivers

County	Species	Status	Habitat
Greene **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Grundy **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Hamilton **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
Hancock **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Sheepnose mussel (*Plethobasus cyphyus*)	Endangered	Shallow areas in larger rivers and streams
	Spectaclecase mussel (*Cumberlandia monodonta*)	Endangered	Shallow areas in larger rivers and streams
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Hardin **Field Office to**	Gray bat *Myotis grisescens*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests

County	Species	Status	Habitat
Contact: U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Fat pocketbook pearlymussel *(Potamilis capax)*	Endangered	Saline, Middle Fork Saline, and North Fork Saline Rivers
Henderson **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Spectaclecase mussel (*Cumberlandia monodonta*)	Endangered	Shallow areas in larger rivers and streams
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Henry **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Iroquois **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Jackson **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office	Gray bat *Myotis grisescens* *Myotis grisescens*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)

County	Species	Status	Habitat
8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Pallid sturgeon *(Scaphirynchus albus)*	Endangered	Large rivers
Jasper **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Embarass River
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Jefferson **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Piping plover *Charadrius melodus*	Endangered	May be present in Jefferson County during migration.
Jersey **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Jo Daviess **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Iowa Pleistocene snail *(Discus macclintocki)*	Endangered	North-facing algific talus slopes of the driftless area
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies

County	Species	Status	Habitat
FAX: 309-757-5807	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Johnson **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Gray bat *Myotis grisescens*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
Kane **Field Office to Contact:** USFWS Chicago Illinois FO 1250 South Grove, Suite 103 Barrington, Illinois 60010 (847) 381-2253 e:mail Chicago@fws.gov Cathy_Pollack@fws.gov	Eastern prairie fringed orchid *(Platanthaera leucophaea)* Go here for specific guidance on how to determine whether this species is present on a site.	Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie
Kankakee **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Sheepnose mussel (*Plethobasus cyphyus*)	Endangered	Shallow areas in larger rivers and streams
	Snuffbox (*Epioblasma triquetra*)	Endangered	Small to medium-sized creeks and some larger rivers, in areas with a swift current
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Kendall **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Knox	Indiana bat *(Myotis sodalis)*	Endangered	

County	Species	Status	Habitat
Field Office to Contact: U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Lake **Field Office to Contact:** USFWS Chicago Illinois FO 1250 South Grove, Suite 103 Barrington, Illinois 60010 (847) 381-2253 e:mail Chicago@fws.gov Cathy_Pollack@fws.gov	Piping plover *Charadrius melodus*	Endangered	Wide, open, sandy beaches with very little grass or other vegetation
	Piping plover *Charadrius melodus*	Critical Habitat	Wide, open, sandy beaches with very little grass or other vegetation
	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Karner blue butterfly *(Lycaeides melissa samuelis)*	Endangered	Pine barrens and oak savannas on sandy soils and containing wild lupines (*Lupinus perennis*), the only known food plant of the larvae
	Eastern prairie fringed orchid *(Platanthaera leucophaea)* Go here for specific guidance on how to determine whether this species is present on a site.	Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie
	Pitcher's thistle *(Cirsium pitcheri)*	Threatened	Lakeshore dunes
La Salle **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)
	Indiana bat *(Myotis sodalis)*	Critical Habitat designated	Blackball Mine
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Leafy-prairie clover *(Dalea foliosa)*	Endangered	Prairie remnants on thin soil over limestone
Lawrence **Field Office to Contact:** U.S. Fish and Wildlife Service	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)

County	Species	Status	Habitat
Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Fat pocketbook mussel *(Potamilis capax)*	Endangered	Mississippi, Wabash, Little Wabash, Ohio Rivers
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Wabash River
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Lee **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Livingston **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Logan **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Macon **Field Office to Contact:** U.S. Fish and Wildlife Service	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)

County	Species	Status	Habitat
Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Macoupin **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); Small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Madison **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Pallid sturgeon *(Scaphirynchus albus)*	Endangered	Large rivers
	Spectaclecase mussel (*Cumberlandia monodonta*)	Endangered	Shallow areas in larger rivers and streams
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Marion **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies

County	Species	Status	Habitat
Marshall **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Mason **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Massac **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Fat pocketbook mussel *(Potamilis capax)*	Endangered	Mississippi, Wabash, Little Wabash, Ohio Rivers
	Orange-footed pimpleback pearlymussel *(Plethobasis cooperianus)* *(=P. striatus)*	Endangered	Ohio River below confluence with Cumberland River
	Pink mucket pearlymussel *(Lampsilis orbiculata)* *(=Plethobasis abrupta)*	Endangered	Ohio River
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Ohio River
	Sheepnose mussel (*Plethobasus cyphyus*)	Endangered	Shallow areas in larger rivers and streams
	Spectaclecase mussel (*Cumberlandia monodonta*)	Endangered	Shallow areas in larger rivers and streams
McDonough **Field Office to Contact:** U.S. Fish and Wildlife Service	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)

County	Species	Status	Habitat
Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
McHenry **Field Office to Contact:** USFWS Chicago Illinois FO 1250 South Grove, Suite 103 Barrington, Illinois 60010 (847) 381-2253 e:mail Chicago@fws.gov Cathy_Pollack@fws.gov	Eastern prairie fringed orchid *(Platanthaera leucophaea)* Go here for specific guidance on how to determine whether this species is present on a site.	Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie
	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
McLean **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Menard **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Mercer **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam

County	Species	Status	Habitat
1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Monroe **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Gray bat *Myotis grisescens*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Pallid sturgeon *(Scaphirynchus albus)*	Endangered	Large rivers
	Illinois cave amphipod *(Gammarus acherondytes)*	Endangered	Cave streams in Illinois sinkhole plain
Montgomery **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Morgan **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Moultrie **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Piping plover *Charadrius melodus*	Endangered	May be present in Moultrie County during migration.

County	Species	Status	Habitat
8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Ogle **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Prairie bush clover *(Lespedeza leptostachya)*	Threatened	Dry to mesic prairies with gravelly soil
Peoria **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Perry **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
Piatt **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern massasauga *(Sistrurus catenatus)*	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies

County	Species	Status	Habitat
Pike **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Gray bat *Myotis grisescens*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Spectaclecase mussel (*Cumberlandia monodonta*)	Endangered	Shallow areas in larger rivers and streams
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Pope **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Gray bat *Myotis grisescens*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Fat pocketbook mussel *(Potamilis capax)*	Endangered	Mississippi, Wabash, Little Wabash, Ohio Rivers
Pulaski **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Gray bat *Myotis grisescens*	Endangered	Caves and mines; rivers & reservoirs adjacent to forests
	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Orange-footed pimpleback pearlymussel *(Plethobasis cooperianus)* *(=P. striatus)*	Endangered	Ohio River below confluence with Cumberland River
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Ohio River
	Sheepnose mussel (*Plethobasus cyphyus*)	Endangered	Shallow areas in larger rivers and streams
Putnam **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils

County	Species	Status	Habitat
1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Randolph **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Pallid sturgeon *(Scaphirynchus albus)*	Endangered	Large rivers
	Small whorled pogonia *(Isotria medeoloides)*	Threatened	Dry woodlands
Richland **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Rock Island **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Sheepnose mussel *(Plethobasus cyphyus)*	Endangered	Shallow areas in larger rivers and streams
	Spectaclecase mussel *(Cumberlandia monodonta)*	Endangered	Shallow areas in larger rivers and streams
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Saint Clair **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Pallid sturgeon *(Scaphirynchus albus)*	Endangered	Large rivers

County	Species	Status	Habitat
3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Illinois cave amphipod *(Gammarus acherondytes)*	Endangered	Cave streams in Illinois sinkhole plain
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Saline **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Mead's milkweed *(Asclepias meadii)*	Threatened	Virgin prairies
Sangamon **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Schuyler **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Scott **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils

County	Species	Status	Habitat
8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Shelby **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Piping plover *Charadrius melodus*	Endangered	May be present in Shelby County during migration.
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Stark **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Stephenson **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Tazewell **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
	Lakeside daisy *(Hymenopsis herbacea)*	Threatened	Dry rocky prairies

County	Species	Status	Habitat
Union **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Bare alluvial and dredged spoil islands
	Pallid sturgeon *(Scaphirynchus albus)*	Endangered	Large rivers
Vermilion **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Clubshell mussel *(Pleurobema clava)*	Endangered	Vermillion River: North Fork
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Vermilion River, Salt Fork Vermilion River, Middle Fork Vermilion river, North Fork Vermilion River, Middle Branch North Fork Vermilion River
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Wabash **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern *(Sterna antillarum)*	Endangered	Wabash River, nests on sand bars
	Fat pocketbook mussel *(Potamilis capax)*	Endangered	Mississippi, Wabash, Little Wabash, Ohio Rivers
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Wabash River
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Warren **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies

County	Species	Status	Habitat
Washington **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Wayne **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
White **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Fanshell mussel *(Cyprogenia stegaria)* *(=C. irrorata)*	Endangered	Wabash River
	Fat pocketbook mussel *(Potamilis capax)*	Endangered	Mississippi, Wabash, Little Wabash, Ohio Rivers
	Rabbitsfoot (*Quadrula cylindrica cylindrica*)	Candidate	Wabash River
Whiteside **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel *(Lampsilis higginsi)*	Endangered	Mississippi River; Rock River to Steel Dam
	Sheepnose mussel *(Plethobasus cyphyus)*	Endangered	Shallow areas in larger rivers and streams
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies
Will **Field Office to**	Hine's emerald dragonfly *(Somatochlora hineana)*	Endangered	Spring fed wetlands, wet meadows and marshes

County	Species	Status	Habitat
Contact: USFWS Chicago Illinois FO 1250 South Grove, Suite 103 Barrington, Illinois 60010 (847) 381-2253 e:mail Chicago@fws.gov Cathy_Pollack@fws.gov	Hine's emerald dragonfly (*Somatochlora hineana*)	Critical Habitat Designated	Go here for a map and written description of the areas designated as Critical Habitat (PDF)
	Eastern massasauga (*Sistrurus catenatus*)	Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)
	Sheepnose mussel (*Plethobasus cyphyus*)	Endangered	Shallow areas in larger rivers and streams
	Snuffbox (*Epioblasma triquetra*)	Endangered	Small to medium-sized creeks and some larger rivers, in areas with a swift current
	Eastern prairie fringed orchid (*Platanthaera leucophaea*) Go here for specific guidance on how to determine whether this species is present on a site.	Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie
	Lakeside daisy (*Hymenopsis herbacea*)	Threatened	Dry rocky prairies
	Leafy-prairie clover (*Dalea foliosa*)	Endangered	Prairie remnants on thin soil over limestone
	Mead's milkweed (*Asclepias meadii*)	Threatened	Late successional tallgrass prairie, tallgrass prairie converted to hay meadow, and glades or barrens with thin soil
Williamson **Field Office to Contact:** U.S. Fish and Wildlife Service Marion Illinois Sub-Office 8588 Route 148 Marion, Illinois 62959 Phone: (618) 997-3344, ext. 340 FAX: (618) 997-8961 e:mail Marion@fws.gov	Indiana bat (*Myotis sodalis*)	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
Winnebago **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat (*Myotis sodalis*)	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid (*Platanthaera leucophaea*)	Threatened	Mesic to wet prairies
	Prairie bush clover (*Lespedeza leptostachya*)	Threatened	Dry to mesic prairies with gravelly soil

County	Species	Status	Habitat
Woodford **Field Office to Contact:** U.S. Fish and Wildlife Service Rock Island Illinois Field Office 1511 47th Avenue Moline, Illinois 61265 (309) 757-5800 e:mail RockIsland@fws.gov FAX: 309-757-5807	Indiana bat *(Myotis sodalis)*	Endangered	Caves, mines (hibernacula); small stream corridors with well developed riparian woods; upland forests (foraging)
	Decurrent false aster *(Boltonia decurrens)*	Threatened	Disturbed alluvial soils
	Eastern prairie fringed orchid *(Platanthaera leucophaea)*	Threatened	Mesic to wet prairies

U.S. Fish and Wildlife Service

Natural Resources of Concern

This resource list is to be used for planning purposes only — it is not an official species-list.

Endangered Species Act species-list information for your project is available online and listed below for the following FWS Field Offices:

NEBRASKA ECOLOGICAL SERVICES FIELD OFFICE
FEDERAL BUILDING
203 WEST SECOND STREET
GRAND ISLAND, NE 68801
(308) 382-6468
http://www.fws.gov//nebraskaes

Project Counties:

Douglas, NE

Project Type:

Transportation

Endangered Species Act Species-list

There are a total of 5 species in your species-list

Species that may be affected by your project:

Birds			
Least tern (*Sterna antillarum*) Population: interior pop.	Endangered	species info	Nebraska Ecological Services Field Office
Piping Plover (*Charadrius melodus*) Population: except Great Lakes watershed	Threatened	species info	Nebraska Ecological Services Field Office

U.S. Fish and Wildlife Service

Natural Resources of Concern

Whooping crane (*Grus americana*) Population: except where EXPN	Endangered	species info	Nebraska Ecological Services Field Office
Fishes			
Pallid sturgeon (*Scaphirhynchus albus*)	Endangered	species info	Nebraska Ecological Services Field Office
Flowering Plants			
Western Prairie Fringed Orchid (*Platanthera praeclara*)	Threatened	species info	Nebraska Ecological Services Field Office

FWS National Wildlife Refuges

There are no refuges found within the vicinity of your project.

FWS Migratory Birds

Not yet available through IPaC.

FWS Delineated Wetlands

Not yet available through IPaC.

Iowa List of Federally Endangered, Threatened, Proposed, and Candidate Species - by County

If you have questions about this list, please contact our Illinois Field Office at:
U.S. Fish and Wildlife Service, 1511 47th Avenue, Moline, Illinois 61265
Phone: (309) 757-5800
Revised September 2007

County	Common Name	Scientific Name	Status	Habitat
Adair	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
Adams	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Allamakee	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
Appanoose	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Audubon	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Benton	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

County	Common Name	Scientific Name	Status	Habitat
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Black Hawk	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Boone	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Bremer	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Buchanan	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Buena Vista	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Butler	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Calhoun	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Carroll	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Cass	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Cedar	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Cerro Gordo	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

County	Common Name	Scientific Name	Status	Habitat
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Cherokee	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Chickasaw	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Clarke	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Mead's milkweed	*Asclepias meadii*	Threatened	
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	
Clay	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Clayton	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
	Spectaclecase mussel	*Cumberlandia monodonta*	Candidate	Rivers
Clinton	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
Crawford	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

County	Common Name	Scientific Name	Status	Habitat
Dallas	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Davis	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Decatur	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
Delaware	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Northern monkshood	*Aconitum novaboracense*	Threatened	
Des Moines	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
	Spectaclecase mussel	*Cumberlandia monodonta*	Candidate	Rivers
Dickinson	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers

County	Common Name	Scientific Name	Status	Habitat
	Dakota skipper	*Hesperia dacotae*	Candidate	Prairies
Dubuque	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
	Spectaclecase mussel	*Cumberlandia monodonta*	Candidate	Rivers
Emmet	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Fayette	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
Floyd	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Franklin	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Fremont	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
Greene	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Grundy	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Guthrie	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

County	Common Name	Scientific Name	Status	Habitat
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Hamilton	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Hancock	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Hardin	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Northern monkshood	*Aconitum novaboracense*	Threatened	
Harrison	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
Henry	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Howard	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Humboldt	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Ida	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Iowa	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

County	Common Name	Scientific Name	Status	Habitat
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Jackson	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
	Northern monkshood	*Aconitum novaboracense*	Threatened	
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Iowa Pleistocene snail	*Discus macclintocki*	Endangered	North-facing algific talus slopes of the driftless area
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
Jasper	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Jefferson	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Johnson	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
	Eastern massasauga	*Sistrurus c. catenatus*	Candidate	

County	Common Name	Scientific Name	Status	Habitat
Jones	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Eastern prairie fringed orchid	*Platanthera leucophaea*	Threatened	Mesic to wet prairies
Keokuk	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Kossuth	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Lee	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
	Spectaclecase mussel	*Cumberlandia monodonta*	Candidate	Rivers
Linn	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Louisa	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
	Spectaclecase mussel	*Cumberlandia monodonta*	Candidate	Rivers

County	Common Name	Scientific Name	Status	Habitat
	Eastern massasauga	*Sistrurus c. catenatus*	Candidate	
Lucas	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
Lyon	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Madison	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Mahaska	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Marion	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Marshall	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Mills	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

County	Common Name	Scientific Name	Status	Habitat
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
	Eastern massasauga	*Sistrurus c. catenatus*	Candidate	
Mitchell	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Monona	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
Monroe	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Montgomery	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Muscatine	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
	Spectaclecase mussel	*Cumberlandia monodonta*	Candidate	Rivers

County	Common Name	Scientific Name	Status	Habitat
	Eastern massasauga	*Sistrurus c. catenatus*	Candidate	
O'Brien	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Osceola	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Page	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Palo Alto	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Plymouth	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Pocahontas	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Polk	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern	*Sterna antillarum*	Endangered	Bare alluvial and dredged spoil islands
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
Pottawattamie	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

County	Common Name	Scientific Name	Status	Habitat
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Least tern	*Sterna antillarum*	Endangered	Bare alluvial and dredged spoil islands
	Piping plover	*Charadrius melodus*	Endangered	
	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
	Eastern massasauga	*Sistrurus c. catenatus*	Candidate	
Poweshiek	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Ringgold	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
Sac	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Scott	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Higgins eye pearlymussel	*Lampsilis higginsii*	Endangered	Mississippi River
	Sheepnose mussel	*Plethobasus cyphyus*	Candidate	Rivers
	Spectaclecase mussel	*Cumberlandia monodonta*	Candidate	Rivers
Shelby	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

County	Common Name	Scientific Name	Status	Habitat
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Sioux	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Story	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Tama	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Taylor	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Union	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Van Buren	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Wapello	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Warren	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows

County	Common Name	Scientific Name	Status	Habitat
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
	Mead's milkweed	*Asclepias meadii*	Threatened	Virgin prairies
Washington	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Wayne	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Indiana bat	*Myotis sodalis*	Endangered	Caves, mines (hibernacula);small stream corridors with well developed riparian woods; upland forests (foraging)
Webster	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers
Winnebago	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Winnishiek	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
Woodbury	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Least tern	*Sterna antillarum*	Endangered	Bare alluvial and dredged spoil islands
	Piping plover	*Charadrius melodus*	Endangered	
	Pallid sturgeon	*Scaphirhynchus albus*	Endangered	Large rivers
Worth	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil

County	Common Name	Scientific Name	Status	Habitat
Wright	Western prairie fringed orchid	*Platanthera praeclara*	Threatened	Wet prairies and sedge meadows
	Prairie bush clover	*Lespedeza leptostachya*	Threatened	Dry to mesic prairies with gravelly soil
	Topeka shiner	*Notropis topeka*	Endangered	Prairie streams and rivers

Revised September 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

APR 16 2012

Ms. Andrea Martin
Environmental Protection Specialist
Federal Railroad Administration
1200 New Jersey Avenue Southeast,
(Mail Stop 20),
Washington, DC 20590,

Ms. Tamara Nicholson, Director
Office of Rail Transportation,
Iowa Department of Transportation,
800 Lincoln Way,
Ames, Iowa 50010

Subject: U.S. Environmental Protection Agency Scoping comments for Chicago to Omaha High Speed Rail Proposal

Regions 5 (Chicago), and 7 (Kansas City) of the U.S. Environmental Protection Agency (EPA) have reviewed the pre-scoping materials and have participated in the agency scoping meetings conducted on 21 and 22 February, 2012. The EPA will serve as a cooperating agency in this "Tier 1" NEPA process. Region 7 will be the lead region. The following comments have been prepared to assist in focusing the Environmental Impact Statement (EIS) on issues of importance, to identify known environmental constraints, and to promote effective coordination.

The Purpose and Need statement indicates that the study will evaluate "alternatives for the ***reestablishment*** of intercity passenger rail service from Chicago, Illinois, through Iowa, to Omaha, Nebraska". Since intercity rail passenger service currently exists between Chicago and Omaha, the term "re-established" is inappropriate. The EPA's current understanding of the NEPA analysis objective is that the FRA will evaluate alternative routes for establishing high-speed passenger rail service between the termini.

The Proposed Action seeks to "create a competitive rail transportation alternative to the available automobile, bus, and air service and would meet needs for more efficient travel". The EPA recommends that a clarifying statement be made to ensure that the intended rail service is for *passenger* transportation, (exclusive of transporting freight and other commerce) to allow for comparability among the different transportation modes.

The EPA observes that existing track and current railroad operations represent a baseline condition. New track, track that connects between existing routes, and new track geometries for safety and facilitation of

higher speed trains should receive focused analysis above the existing condition. Likewise, the EIS should examine the environmental impacts of the stations and support facilities (e.g., storage and maintenance operations) associated with each of the route alternatives.

The Tier 1 process would be expected to eliminate some of the alternatives from further consideration based upon specific criteria. Such criteria might include: higher operating expenditures due to terrain, higher maintenance due to snow/ice frequency and duration, reconstruction costs, safety issues, ridership projections, planned coordination with related transportation services for passengers, and other operational factors (e.g., refueling and crew changes). The Tier I EIS should evaluate how the proposed high-speed service from Chicago to Omaha will interface with existing service through Omaha to San Francisco. Tier 1 considerations should include: 1) selection of the alternative corridors most likely to achieve the lowest environmentally damaging practical alternative under Clean Water Act Section (CWA) 404; 2) growth-related development impacts, 3) potential for community and wildlife impacts, such as noise/vibration and safety and 4) cumulative impacts to resources of concern.

Future "Tier 2" or project-level analyses will address site-specific environmental impacts of the high speed train system. Integrating the requirements of NEPA and CWA Section 404 in Tier 1 should serve to expedite the environmental review and permitting process in Tier 2.

Mr. Norm West will be the contact in Chicago at (312) 353-5692 or west.norman@epa.gov, and I can be reached at (913) 551-7148 or cothern.joe@epa.gov. As a cooperating agency, we look forward to working with you on this project.

Sincerely,

Joseph E. Cothern

Joseph E. Cothern
NEPA Team Leader
Environmental Services Division

cc. Brian Goss, HDR

U.S. Department
Of Transportation

Federal Aviation Administration

Central Region
Iowa, Kansas
Missouri, Nebraska

901 Locust
Kansas City, Missouri 64106-2325

February 21, 2012

Ms. Janet Vine
Iowa Department of Transportation
NEPA Document Manager
800 Lincoln Way
Ames, IA 50010

Re: Chicago to Omaha Regional Passenger Rail Planning Study

Dear Ms. Vine:

The Federal Aviation Administration (FAA) reviews other federal agency environmental documents from the perspective of the FAA's area of responsibility; that is, whether the proposal will have negative effects on aviation. We generally do not provide comments from an environmental standpoint. Therefore, we have reviewed the material furnished with your e-mail dated 2/15/12 and have no comments regarding environmental matters.

Airspace Considerations
The project may require formal notice and review for airspace review under Federal Aviation Regulation (FAR) Part 77, Objects Affecting Navigable Airspace. To determine if you need to file with FAA, go to http://oeaaa.faa.gov and click on the "Notice Criteria Tool" found at the left-hand side of the page.

Multiple locations will need to be checked because of the length of the route. You should check portions of the route within 5 miles of a public-use or military airport. Airport locations can be found using the "Circle Search for Airports" tab on the left side of the previously mentioned webpage. Other web-based programs may also be useful to locate airports.

If you determine that filing with FAA is required, I recommend a 120-day notification to accommodate the review process and issue our determination letter. Proposals may be filed at http://oeaaa.faa.gov.

More information on this process may be found at:
http://www.faa.gov/airports/central/engineering/part77/

If you have questions, please contact me at glenn.helm@faa.gov or 816-329-2617.

Sincerely,

Glenn Helm, P.E.
Environmental Specialist

NOTE: This letter was e-mailed to email@chicagotoomaha.com with cc to amanda.martin@dot.iowa.gov and janet.vine@dot.iowa.gov. No hard copy will follow.

Goss, Brian

From: Ward, Julie [julie.l.ward@nebraska.gov]
Sent: Thursday, May 17, 2012 2:25 PM
To: Goss, Brian
Subject: NEPA REVIEW: Chicago to Omaha Regional Passenger Rail

Good afternoon, Brian. Below are our comments on this project.

RE: NEPA Review – Chicago to Omaha Regional Passenger Rail

The Nebraska Department of Environmental Quality (NDEQ) has reviewed the above-mentioned project. As with any facility, permits may be required prior to beginning construction or operation. At a minimum, you should be aware of the possible requirements for the following permits:

- A Construction Storm Water Permit will be required if there is greater than one acre of disturbance of land, which is likely with this project. Highly chlorinated water for main disinfection will require de-chlorination prior to discharge. Please contact Blayne Renner at the number provided below if you have additional questions regarding the NDEQ Construction Storm Water Permit.

- Wastes generated from construction and/or demolition during this project must be properly disposed at a permitted landfill or recycled. If you have questions related to the Waste Program, please contact Jeff Edwards at the number provided below.

- Check with USACE for Section 404 needs.

- Depending on the final route and location in Douglas County as well as installation of stationary equipment NDEQ Title 129 (outside of city limits) and/or Omaha Air Quality Control regulations (inside of city limits) would apply to the following:

1. Land clearing and construction-disposal of waste materials by open burning must be permitted by NDEQ and/or City of Omaha.
2. Asbestos assessment and abatement is needed prior to any structure demolition. Prior notification to NDEQ and City of Omaha required.
3. Fugitive dust control during all land clearing and construction activities is required by NDEQ and City of Omaha. Any contamination of city
   roadways will require prevention and/or clean-up per the City of Omaha specifications.
4. Construction and/or Operating permits for stationary engines, boilers, emergency generation equipment and other equipment may
   be required by the City of Omaha Air Quality Control and/or NDEQ.

Construction Storm Water Program – Blayne Renner, 402-471-8330
Waste Compliance – Jeff Edwards, 402-471-8309
Air Quality Program – Yvonne Austin, 402-471-3305

Until further along in the planning process, it is unknown whether there may be additional regulatory requirements. We strongly urge the project sponsors to make contact with the Department; contact numbers are provided above. It has been our experience that early and open communication helps facilitate the permitting process.

If you have questions about the permitting process, or any other questions, feel free to contact me at (402) 471-6974. For more information, please visit our website at www.deq.state.ne.us. Good luck with your project!

Julie L. Ward
National Environmental Policy Act (NEPA) Coordinator
NE Department of Environmental Quality
1200 "N" Street, The Atrium, Suite 400
P.O. Box 98922, Lincoln, NE 68509-8922
Phone: 402.471.6974 | E-mail: julie.l.ward@nebraska.gov

** Please consider the environment before printing this email.*

From: Zheng, Shuhai [mailto:shuhai.zheng@nebraska.gov]
Sent: Wednesday, June 06, 2012 12:10 PM
To: Martin, Amanda [DOT]
Cc: Dunnigan, Brian
Subject: Tier 1 EIS for the Chicago to Omaha Regional Passenger Rail System

Dear Amanda,

Our agency Director Brian Dunnigan received an e-mail from Tammy Nicholson (Director if Iowa's Office of Rail Transportation) on May 31, 2021, seeking our comments on issues which should be addressed in your Tier EIS for the Chicago to Omaha Regional Passenger Rail System. Mr. Dunnigan forwarded the e-mail message to me and asked me to respond. Brian and I really appreciate the opportunity.

Our agency's statutory responsibilities includes surface water right administration, groundwater well registration and floodplain management programs. Based on my initial review of the 5 proposed routes of the Rail System, I don't believe they will have significant impact on Nebraska's surface and ground water resources. Should the segment of any proposed routes requiring new infrastructures in a floodplain/floodway in Nebraska, its impact on floodplain shall be assessed and addressed. When your project moves into its Tier 2 Phase (design and construction), a floodplain development permit is required from City of Omaha and/or Douglas County before any construction can begin in a floodplain within their jurisdiction.

Please keep us informed about your project progress and the availability of the Tier 1 EIS. If you need additional information from our agency, please feel free to contact me.

Sincerely,

Shuhai

Shuhai Zheng, Ph.D., P.E., CFM
Head, Floodplain/Dam Safety/Survey Division
Department of Natural Resources
P.O. Box 94676
Lincoln, NE 68509
Phone: 402-471-3936
Fax: 402-471-2900
Web: www.dnr.ne.gov

IOWA DEPARTMENT OF
CULTURAL AFFAIRS
MARY TIFFANY COWNIE, DIRECTOR

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

STATE HISTORICAL SOCIETY of IOWA
JEROME THOMPSON
ADMINISTRATOR

IOWA ARTS COUNCIL
MATTHEW HARRIS
ADMINISTRATOR

600 E. LOCUST
DES MOINES, IOWA
50319

T. (515) 281-5111
F. (515) 282-0502

CULTURALAFFAIRS.ORG

June 11, 2012

In reply refer to:
R&C#: 120500095

David Valenstein, Division Chief
Environment and Systems Planning
Federal railroad Administration
1200 New Jersey Avenue, SE
Washington, DC 20590

RE: FRA – STATEWIDE – CHICAGO TO OMAHA REGIONAL PASSENGER RAIL SYSTEM – PROPOSED TIER 1 ENVIRONMENTAL IMPACT STATEMENT (EIS) PROJECT – INVITATION TO BECOME A COOPERATING AGENCY

Dear Mr. Valenstein,

Thank you for notifying our office about the above referenced proposed project. Thank you for inviting our agency to become a Cooperating Agency as part of the environmental review process. We accept your invitation.

We understand that the intent of the Federal Railroad Administration is to initiate and conduct a tiered environmental assessment process. It appears that the Tier 1 EIS project will be exploring and considering a number of alternatives for passenger rail routes between Chicago, Illinois and Omaha, Nebraska. We understand that the purpose of the Tier 1 does not involve consultation regarding specific construction activities or about the potential historic properties that may be affected by specific construction activities. We understand that those consultations will occur as part of the Tier 2 NEPA documents and perhaps in separate Section 106 consultation documents.

Based on the information provided regarding the undertaking, it is unclear at this time whether any historic properties would be affected by use of any of these possible routes. However, our office is aware that the rail segment from Davenport to Iowa City (which would be part of Route 4) was one of the earliest railroad lines constructed in the state of Iowa. It appears that the location of this rail line has not changed very much since its original construction in 1855. We are also aware that two significant historic events occurred on this rail line segment. On March 10, 1859, John Brown and his contingent of men and freedom seekers boarded a boxcar on an eastbound train at West Liberty and left the state of Iowa for the last time at Davenport on their way to Chicago and eventually Canada. This was John Brown's last trip through Iowa prior to the raid at Harpers Ferry. Also, this line was used by the Mormons during their exodus from the state of Illinois to transport many people to Iowa City. Upon reaching Iowa City (which was then the end of the rail line during that time period), the Mormon families began on the Mormon Handcart Expedition which headed westward eventually leading to their new home in Utah.

Please reference the Review and Compliance Number provided above in all future submitted correspondence to our office for this project. We look forward to further consulting with your agency and the Iowa Department of Transportation on this project. Should you have any questions please contact me at the number below.

Sincerely,

Douglas W. Jones

Douglas W. Jones, Archaeologist and Review and Compliance Program Manager
and Interim Deputy State Historic Preservation Officer
State Historic Preservation Office
State Historical Society of Iowa
(515) 281-4358
doug.jones@iowa.gov

cc: Ralph Christian, Historian, State Historical Society of Iowa
Daniel Higginbottom, Archaeologist, State Historical Society of Iowa
Andrea Martin, Federal Railroad Administration
Amanda Martin, IDOT, Ames
Jerome Thompson, Interim Iowa State Historic Preservation Officer

From: Phan, Dee (FTA)
Sent: Wednesday, May 30, 2012 12:53 PM
To: Martin, Andrea (FRA)
Subject: Re: Tier 1 EIS for Chicago to Omaha Regional Passenger Rail System

Andrea,

Thank you for your letter dated May 17, 2012, whereby you invited FTA to become a Cooperating Agency on the proposed subject project. We decline to be a Cooperating Agency because we have no jurisdiction or authority pertaining to the project at this time.

Thank you,

Dee Phan
Environmental Protection Specialist
FTA Region VII
901 Locust St., Suite 404
Kansas City, MO 64106
Phone: 816-329-3934
Fax: 816-329-3921
Email: Dee.Phan@dot.gov

Nebraska Game and Parks Commission
2200 N. 33rd St. / P.O. Box 30370 / Lincoln, NE 68503-0370
Phone: 402-471-0641 / Fax: 402-471-5528 / www.OutdoorNebraska.org

July 3, 2012

Tammy Nicholson, Director
Office of Rail Transportation
Iowa Department of Transportation
800 Lincoln Way
Ames, IA 50010

RE: Tier 1 EIS for the Chicago to Omaha Regional Passenger Rail System

Dear Ms. Nicholson:

Nebraska Game and Parks Commission (NGPC) staff members have reviewed the information for the proposal identified above. This review was requested pursuant to the National Environmental Policy Act (NEPA). The Nebraska Game and Parks Commission is the state agency responsible for managing the fish, wildlife, and parkland resources in Nebraska. Our comments are for your consideration and are offered to reduce impacts to natural resources in the portion of the project area that is in Nebraska.

As we understand, the majority of the project lies outside the boundaries of the state of Nebraska. Only a very small portion of the project will involve a crossing of the Missouri River, and rail to an endpoint station/terminal in or near downtown Omaha.

As mentioned above, the project would involve a crossing of the Missouri River. In general, NGPC has concerns for impacts to wetlands, streams and riparian habitats. We encourage that impacts to wetlands, streams, and associated riparian corridors be avoided and minimized, and that any unavoidable impacts to these habitats be mitigated. If any fill materials will be placed into any wetlands or streams as a result of the proposed project, the U.S. Army Corps of Engineers should be contacted to determine if a 404 permit is needed.

Several state-listed threatened and endangered species are known to occur in the Missouri River, including the state-listed endangered pallid sturgeon (*Scaphirhyncus albus*), the state-listed threatened lake sturgeon (*Acipenser fulvescens*), and the state-listed endangered sturgeon chub (*Macrhybopsis gelida*).

The pallid sturgeon feeds on small fish and invertebrates and is known to use sites with sharp slopes associated with downstream edges of submerged riverine sandbars. Most occurrence records are near confluences, islands, and at the downstream margins of sandbars. The primary migration and spawning periods for pallid sturgeon in the Missouri River bordering Nebraska are from March 1 to June 30.

The lake sturgeon is believed to occupy similar habitats as the pallid sturgeon (see above), but spends a greater proportion of its time in the Missouri than the Platte River. Lake sturgeon feed on invertebrates and small fish and can be found at the downstream margins of island and river confluences. This fish spawns between February 1 and July 31, depending on river conditions.

The sturgeon chub is associated with fast flowing, turbid water and gravel substrate. This species has been collected in side chutes and backwaters, as it is thought that these kinds of areas provide spawning habitat for the fish. Sturgeon chub feed on invertebrates. This fish spawns between February 1 and July 31, depending on river conditions.

If the rail line would cross the Missouri River on an existing bridge structure, then adverse impacts to the above-mentioned fish species are not likely to occur. However, if the rail line would cross the Missouri River on a new alignment or would cross on an existing structure that would be upgraded, and involve bridge construction activities taking place in the water, then there is potential for impacts to these fish species. If construction work would need to take place in the water, we would recommend that construction activities be avoided in the Missouri River during the primary migration and spawning periods for the listed fish species mentioned above. Avoiding work in the river during these timeframes will help prevent material, including riverbed and riverbank sediment stirred up during construction activities, from covering eggs and altering spawning habitat. Also, construction/repair activities in the river can alter fish movements by creating sound barriers and/or altering flow patterns, which can adversely affect migration patterns.

Migratory Bird Treaty Act

Under the federal Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712: Ch. 128 *as amended*) construction activities in grassland, wetland, stream, woodland, and river bank habitats that would otherwise result in the taking of migratory birds, eggs, young, and/or active nests should be avoided. Although the provisions of MBTA are applicable year-round, most migratory bird nesting activity in Nebraska occurs during the period of April 1 to July 15. However, some migratory birds are known to nest outside of the aforementioned primary nesting season period. For example, raptors can be expected to nest in woodland habitats during February 1 through July 15, whereas sedge wrens, which occur in some wetland habitats, normally nest from July 15 to September 10.

If development of the project is planned to occur during the primary nesting season or at any other time which may result in the "take" of nesting migratory birds, we would request that the project proponent arrange to have a qualified biologist conduct a field survey of the affected habitats to determine the absence or presence of nesting migratory birds. If a field survey identifies the existence of one or more active bird nests that cannot be avoided by the planned construction activities, the U.S. Fish and Wildlife Service should be contacted immediately. For more information about the MBTA and avoiding impacts to migratory birds, or to report active bird nests that cannot be avoided by planned construction activities, please contact the U.S. Fish and Wildlife Service, Nebraska Field Office in Grand Island, NE. Adherence to these guidelines will help avoid the unnecessary take of migratory birds.

Bald and Golden Eagle Protection Act

The federal Bald and Golden Eagle Protection Act (Eagle Act) provides for the protection of the bald eagle (*Haliaeetus leucocephalus*) and golden eagle (*Aquila chrysaetos*). Bald eagles utilize mature, forested riparian areas near rivers, streams, lakes, and wetlands and occur along all the major river systems in Nebraska, including the Missouri River. The bald eagle southward migration begins as early as October and the wintering period extends from December-March. The golden eagle is found in arid open country with grassland for foraging in western Nebraska and usually near buttes or canyons which serve as nesting sites. Golden eagles are often a permanent resident in the Pine Ridge area of Nebraska. Additionally, many bald and golden eagles nest in Nebraska from mid-February through mid-July. Disturbances within 0.5-mile of an active nest or within line-of-sight of the nest could cause adult eagles to discontinue nest building or to abandon eggs. Both bald and golden eagles frequent river systems in Nebraska during the winter where open water and forested corridors provide feeding, perching, and roosting habitats, respectively. The frequency and duration of eagle use of these habitats in the winter depends upon ice and weather conditions. Human disturbances and loss of wintering habitat can cause undue stress leading to cessation of feeding and failure to meet winter thermoregulatory requirements. These affects can reduce the carrying capacity of preferred wintering habitat and reproductive success for the species.

To comply with the Eagle Act, it is recommended that the project proponent determine whether the proposed project would impact bald or golden eagles. If it is determined that either species could be affected by the proposed project, we recommend that the project proponent notify this office as well as the U.S. Fish and Wildlife Service office in Grand Island for recommendations to avoid adverse impacts to bald and golden eagles.

Thank you for the opportunity to review this proposal. We look forward to receiving a copy of the draft EIS when it becomes available. If you have any questions regarding these comments, please feel free to contact me at (402) 471-5423 or carey.grell@nebraska.gov.

Sincerely,

Carey Grell
Environmental Analyst
Environmental Services Division

U.S. Department of Homeland Security

United States Coast Guard

Commander
Eighth Coast Guard District

1222 Spruce Street
St. Louis, MO 63103-2832
Staff Symbol: dwb
Phone: (314)269-2379
Fax: (314)269-2737
Email: rodney.l.wurgler@uscg.mil
www.uscg.mil/d8/westerriversbridges

16591.1/Omaha
June 25, 2012

Mr. David Valenstein, Division Chief
Federal Railroad Administration
Environment and Systems Planning
1200 New Jersey Avenue, SE
Washington, DC 20590

Subj: CHICAGO TO OMAHA REGIONAL PASSENGER RAIL SYSTEM, TIER 1 ENVIRONMENTAL IMPACT STATEMENT (EIS)

Dear Mr. Valenstein:

This is in reply to your letter of May 17, 2012, concerning the proposed Chicago to Omaha Regional Passenger Rail System.

The General Bridge Act of 1946 requires that the location and plans for bridges over navigable waters of the United States be approved by the Commandant, U.S. Coast Guard prior to commencing construction. The rivers within the subject project may be considered navigable waterways of the United States for bridge administration purposes.

Applications for bridge permits should be addressed to Commander (dwb), Eighth Coast Guard District, 1222 Spruce Street, St. Louis, Missouri 63103-2832, Attn: Bridge Branch. The application must be supported by sufficient information to permit a thorough assessment of the impact of the bridge and its immediate approaches on the environment. We recommend that the impacts of procedures for constructing cofferdams, sand islands, and falsework bents, etc., that will be employed to build the bridge and demolish the old bridge be discussed. The Environmental Assessment (EA) should also contain data on the number, size and types of vessels currently using the waterway. This information should be compared with past and projected future trends on the use of the waterway.

We agree to serve as a Cooperating Agency for the project from a navigation standpoint. We should be given the opportunity to review the EA and be consulted before a decision is made to prepare a Finding of No Significant Impact (FONSI) in lieu of an EIS. Our review and recommendations on the vertical and horizontal clearance requirements for river traffic will be coordinated with the Iowa Department of Transportation Bridge and Structure Division office.

We appreciate the opportunity to comment on the project in this early stage. You can contact Mr. Rodney Wurgler at the above telephone number if you have questions regarding our comments or requirements.

Sincerely,

William F. Knuteson for
ERIC A. WASHBURN
Bridge Administrator, Western Rivers
By direction of the District Commander

From: andrea.martin@dot.gov
To: anne.haaker@illinois.gov; jerome.thompson@iowa.gov; jill.dolberg@nebraska.gov
Cc: Amanda.Martin@dot.iowa.gov; brad.koldehoff@illinois.gov; Goss, Brian
Subject: RE: Chicago, IL to Omaha, NE, Regional Passenger Rail System Planning Study
Date: Tuesday, July 31, 2012 7:52:28 AM

Good morning; two weeks ago I sent an email to you about the Chicago, IL to Omaha, NE, Regional Passenger Rail System Planning Study APE.

I wanted to clarify information in the correspondence; the proposed APE would extend 250 feet on either side of the rail centerline similar to other Midwest passenger rail corridors, for an estimated total of 500 feet. Additionally, Route Alternative 4-A is being evaluated as the Build Alternative and includes a portion of the California Zephyr route from Chicago Union Station to Wyanet, IL along the former Burlington line (currently the Burlington Northern and Santa Fe Railway (BNSF)). The California Zephyr route continues from Wyanet to Omaha along BNSF rail whereas the Build Alternative includes the former Rock Island line (now Iowa Interstate Railroad) between Wyanet and Omaha, NE.

Please do not hesitate to contact me if you have any questions. Thank you again for your assistance, and I look forward to working with you as our project moves forward.

Andrea

From: Martin, Andrea (FRA)
Sent: Thursday, July 19, 2012 10:29 AM
To: anne.haaker@illinois.gov; 'jerome.thompson@iowa.gov'; 'jill.dolberg@nebraska.gov'
Cc: Martin, Amanda [DOT] (Amanda.Martin@dot.iowa.gov); brad.koldehoff@illinois.gov; Martin, Andrea (FRA)
Subject: RE: Chicago, IL to Omaha, NE, Regional Passenger Rail System Planning Study

RE: Chicago, IL to Omaha, NE, Regional Passenger Rail System Planning Study

Dear SHPO:

On March 15, 2012, the Federal Railroad Administration (FRA) published a Notice of Intent (NOI) http://www.gpo.gov/fdsys/pkg/FR-2012-03-15/pdf/2012-6304.pdf to prepare a Tier 1 Environmental Impact Statement (EIS) to evaluate potential passenger rail improvements for the Chicago to Omaha Regional Passenger Rail System in compliance with the National Environmental Policy Act (NEPA). The NOI identified FRA as lead federal agency for purposes of Section 106 of the National Historic Preservation Act (NHPA) (16 USC 470(f)), and determined, pursuant to 36 CFR Section 800.3(a), that the proposed project qualified as an undertaking subject to Section 106 review. FRA will coordinate public involvement for purposes of Section 106 with the NEPA public scoping process for the preparation of the Tier 1 Service Level EIS.

As part of the effort to identify historic properties for purposes of Section 106, FRA proposes an Area of Potential Effects (APE) that would include 500 feet from the rail centerline of Route Alternative 4-A (see attachment). Route Alternative 4-A is the current California Zephyr route

between Chicago, IL and Omaha, NE and occurs entirely on the former Burlington line, now Burlington Northern and Santa Fe Railway (BNSF). Route Alternative 4-A extends along the BNSF between Chicago Union Station and Wyanet, Illinois and then along the former Rock Island line, now Iowa Interstate Railroad, between Wyanet and Omaha. This alternative will be carried forward for detailed evaluation under the Tier 1 EIS after the alternatives screening: http://www.iowadot.gov/chicagotoomaha/pdfs/DraftAlternativeAnalysisReport.pdf.

The APE will constitute the area within which detailed review of existing information on historic properties will proceed, including examination of records maintained by your office and others. . The Tier 1 analysis would be performed without any field work for environmental resources; specific effect determinations would not be conducted during Tier 1. Iowa Department of Transportation will be contacting the SHPO offices for more information

After the Tier 1 Record of Decision is signed by FRA, future design is planned to be performed to identify a preferred footprint, and any necessary field studies for cultural resources would be conducted during Tier 2 Project Level NEPA evaluations. Effect determinations on historic properties would be proposed to State Historic Preservation Offices (SHPOs) and Tribal Historic Preservation Offices (THPOs), as appropriate. If any adverse effects are identified during the Tier 2 Project Level NEPA process, they would be addressed through consultation and in compliance with 36 CFR 800.5 and 800.6. Please respond to this determination of the APE with your concurrence. If we do not receive your response within 30 days of receipt, FRA will assume your concurrence in accordance with 36 CFR Section 800.3(c)(4).

Thank you for your consideration of this matter. If you have any questions or concerns, please contact me at 202-493-6201, or by email Andrea.Martin@dot.gov.

Sincerely,

Andréa Martin
Environmental Protection Specialist
Federal Railroad Administration

Attachment: Map of Route Alternative 4-A

cc: Amanda Martin, Project Manager, Iowa DOT
Brad Koldehoff, Illinois DOT

United States Department of the Interior

OFFICE OF THE SECRETARY
Office of Environmental Policy and Compliance
Denver Federal Center, Building 67, Room 118
Post Office Box 25007 (D-108)
Denver, Colorado 80225-0007

IN REPLY REFER TO

December 17, 2012

9043.1
ER 12/816

Joseph C. Szabo, Administrator
Federal Railroad Administration
1200 New Jersey Avenue S.E, Mail Stop 20
Washington, D.C. 20590

Dear Mr. Szabo:

The Department of the Interior has reviewed the Draft Environmental Impact Statement (EIS) Department of Transportation (DOT), Federal Railroad Administration (FRA) for Chicago to Council Bluffs - Omaha Regional Passenger Rail System Planning Study Tier 1 Service Level, from Chicago, Illinois through Iowa and Omaha, NE, and offers the following comments provided by the U.S. Fish and Wildlife Service.

General Comments

The Secretary of the Interior, acting through the Fish and Wildlife Service, has primary responsibility for the management of the nation's fish and wildlife resources. The Fish and Wildlife Act of 1956, as amended, requires the Secretary to determine the policies and procedures necessary to implement fish and wildlife laws efficiently and in the national public interest. 16 U.S.C. § 742f(a). The Secretary has additional responsibilities to protect and manage the nation's fish and wildlife resources under other statutory authorities, namely: the Bald and Golden Eagle Act, 16 U.S.C. §§ 668-669(d); the Endangered Species Act, as amended, 16 U.S.C. §§ 1531-1543; and the Migratory Bird Treaty Act, 16 U.S.C. §§ 703-711.

To ensure the adequate and equitable protection, mitigation of damage to, and enhancement of fish and wildlife resources, Federal Railroad Administration/U.S.DOT, Iowa DOT should consult with the U.S. Fish and Wildlife Service (FWS) and State natural resource agencies to identify necessary studies. FWS has participated in scoping meetings for this Project and is aware that required studies will be addressed during the Tier 2 phase of this project. Most mitigation measures represent commitments for further coordination with this agency during Tier 2 studies as more detailed information on the design of the Project is developed.

Fish and Wildlife Trust Resources

There are significant public resources that must be protected or enhanced in some areas affected by the proposed project. In this regard, FWS concerns with the proposed Regional Passenger

Rail System from Chicago to Omaha and associated supporting development include potential adverse impacts to federal trust fish and wildlife resources and their supporting riparian, wetland, and terrestrial habitats. Particularly important are potential effects of project operation on the terrestrial environment, wetlands habitat, and migration pathways. In addition, lands managed as part of the National Wildlife Refuge System are located near the project and may be affected by project impacts to rivers (Mississippi River and Missouri River) and surrounding landscapes.

Threatened & Endangered Species

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. Listed species for counties in Illinois and Iowa (Region 3), and Nebraska (Region 6), may be viewed at http://www.fws.gov/midwest/Endangered for Region 3 and http://www.fws.gov/mountain-prairie/endspp/ for Region 6. At a minimum, project evaluations should contain delineations of whether or not habitat for these species occurs within project boundaries, or will be affected by project construction and subsequent operation. In cases where these species are known to occur or potential habitat is rated moderate to high, surveys may be necessary. Please contact this office for further information should these species or their habitats be identified in the project area, or be affected by project activities.

As of August 9, 2007, the bald eagle is no longer included on the list of threatened and endangered species, but it remains protected under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. The bald eagle is a potential resident in parts of the project area and nests have been historically documented in the project area. Project evaluations should include potential impacts to the bald eagle and its habitat. For more information concerning the bald eagle protection, or if impacts to this species are expected, the USFWS should be contacted.

Migratory Birds

We recommend that the project be evaluated for potential impacts to wildlife, particularly migratory birds, from increased noise and vibration resulting from increases in train frequency and speed for the alternatives considered.

If you have questions regarding these comments, please contact Heidi Woeber, U.S. Fish and Wildlife Service, 1511 47th Avenue, Moline, IL 61265, (309) 757-5800, ext. 209.

Sincerely,

Robert F. Stewart
Regional Environmental Officer

cc: Andrea Martin, FRA
Tammy Nicholson, IA DOT
Miriam Gutierrez, IL DOT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

DEC 21 2012

Andréa Martin
Environmental Protection Specialist
Federal Railroad Administration
1200 New Jersey Avenue Southeast (Mail Stop 20),
Washington, DC 20590

Dear Ms. Martin:

RE: Draft Environmental Impact Statement for Chicago to Council Bluffs - Omaha Regional Passenger Rail System Planning Study Tier 1 Service Level, from Chicago, Illinois through Iowa and Omaha, Nebraska

In accordance with our responsibilities under Section 309 of the Clean Air Act and the National Environmental Policy Act, the U.S. Environmental Protection Agency Regions 5 and 7, have reviewed the Federal Railroad Administration's Draft Environmental Impact Statement on the Planning Study for the Regional Passenger Rail System. This DEIS was assigned a Council on Environmental Quality identification number of 20120354.

Our review has concluded that adequate analysis of environmental issues relevant to the selection of the preferred alternative was performed. Therefore, EPA has assigned a rating of Lack of Objections to the DEIS. A copy of EPA's rating system is enclosed for your information.

To assist the FRA in enhancing the Final EIS, and to focus Tier II analysis, EPA provides the following comments:

1. Coarse and Fine level screening occurred within corridors that were 500 foot wide and 100 foot wide(plus a buffer of 25-50 feet), respectively (ES. 3.2.1, ES. 3.2.2.2). However the table of impact (ES-1) does not clearly indicate at what scale the potential impacts are accounted. EPA recommends that the FEIS more clearly describe the study envelopes of: existing Right of Way, Right of Way (plus any additional included study area) for the fine screening, and the 500 foot study area in the coarse screening.

2. ES. 4.22 (Energy Use and Climate Change) predicts considerable decreases in automobile and bus passenger-miles per year and resultant decreases in greenhouse gasses. This section also predicts an automobile fuel decrease of approximately 12 million gallons. Does these predictions account for the increased diesel fuel usage for the rail system?

3. Section 2.2.2.2 (Station Stops). Vitally important to air quality analysis in Tier II studies, will be the amount of time spent by the train at these stations, the emission factors of the locomotives while idling, the land-use/human population at that location, and the baseline air quality condition (attainment/non-attainment/maintenance) at those stops. EPA invites FRA to use of

spatial data tools such as NEPAssist (http://nepassisttool.epa.gov/nepassist/entry.aspx) to help convey the potential impact of rail system pollutant sources upon receptors near these stops.

4. Section 3.10.2 provides some general information on three Superfund sites. For additional information on these sites, and most recent points-of-contact please refer to the following fact sheets: http://www.epa.gov/region07/cleanup/npl_files/iad980687933.pdf, http://www.epa.gov/region07/cleanup/npl_files/ia0001610963.pdf and, http://www.epa.gov/region07/cleanup/npl_files/ia0001610963.pdf.

5. The Draft EIS states that there will be a connection built for the BNSF and Amtrak lines and ancillary facilities built around Wyanet, Illinois. Currently, there are no existing facilities, nor a connection between BNSF and Amtrak lines. Further examination and information related to environmental and public health impacts should be included in the Tier II documents. This analysis should include noise, air emission (especially diesel), storm water run-off, implications to local traffic and any impacts to sensitive populations.

Thank you for the opportunity to review and provide comments on the DEIS. If you have questions or require additional clarification, please contact Shanna Horvatin at 312-886-7887, or myself at 913-551-7148.

Sincerely,

Joseph E. Cothern

Joseph E. Cothern
NEPA Team Leader

cc: Amanda Martin, Freight and Passenger Rail Policy Coordinator,Office of Rail Transportation
Iowa Department of Transportation, 800 Lincoln Way, Ames, IA 50010

Draft Environmental Impact Statement Rating Definitions

Environmental Impact of the Action

"LO" (Lack of Objections)

The EPA review has not identified any potential environmental impacts requiring substantive changes to the proposal. The review may have opportunities for application of mitigation measures that could be accomplished with no more than minor changes to the proposal.

"EC" (Environmental Concerns)

The EPA review has identified environmental impacts that should be avoided in order to fully protect the environment. Corrective measures require changes to the preferred alternative or application of mitigation measures that can reduce the environmental impact. EPA would like to work with the lead agency to reduce these impacts.

"EO" (Environmental Objections)

The EPA review has identified significant environmental impacts that must be avoided in order to provide adequate protection for the environment. Corrective measures may require substantial changes to the preferred alternative or consideration of some other project alternative (including the no action alternative or a new alternative. EPA intends to work with the lead agency to reduce these impacts.

"EU" (Environmentally Unsatisfactory)

The EPA review has identified adverse environmental impacts that are of sufficient magnitude that they are unsatisfactory from the standpoint of public health or welfare or environmental quality. EPA intends to work with the lead agency to reduce these impacts. If the potentially unsatisfactory impacts are not corrected at the final EIS stage, this proposal will be recommended for referral to the CEQ.

Adequacy of the Impact Statement

"Category 1" (Adequate)

EPA believes the draft EIS adequately sets forth the environmental impact(s) of the preferred alternative and those of the alternatives reasonably available to the project or action. No further analysis or data collection is necessary, but the reviewer may suggest the addition of clarifying language or information.

"Category 2" (Insufficient Information)

The draft EIS does not contain sufficient information for EPA to fully assess

environmental impacts that should be avoided in order to fully protect the environment, or the EPA reviewer has identified new reasonably available alternatives that are within the spectrum of alternatives analyzed in the draft EIS, which could reduce the environmental impacts of the action. The identified additional information, data, analyses, or discussion should be included in the final EIS.

"Category 3" (Inadequate)

EPA does not believe that the draft EIS adequately assesses potentially significant environmental impacts of the action, or the EPA reviewer has identified new, reasonably available alternatives that are outside of the spectrum of alternatives analyzed in the draft EIS, which should be analyzed in order to reduce the potentially significant environmental impacts. EPA believes that the identified additional information, data, analyses, or discussions are of such a magnitude that they should have full public review at a draft stage. EPA does not believe that the draft EIS is adequate for the purposes of the NEPA and/or Section 309 review, and thus should be formally revised and made available for public comment in a supplemental or revised draft EIS. On the basis of the potential significant impacts involved, this proposal could be a candidate for referral to the CEQ.

Metra℠
The way to really fly

547 W. Jackson Blvd. Chicago, IL 60661 (312) 322-6900 TTY# 1-312-322-6774

January 30, 2013

Ms. Amanda Martin
Iowa Department of Transportation
800 Lincoln Way
Ames, Iowa 50010

Dear Ms. Martin:

Metra offers the following comments regarding the Chicago to Council Bluffs – Omaha Tier 1 Service Level Draft Environmental Impact Statement (EIS).

The document states that Alternative 4, which utilizes Metra Rock Island District (RID) track between Chicago and Joliet, is "neither reasonable or feasible" because it lacks a connection to Chicago Union Station (CUS). However, the Chicago – St. Louis High Speed Rail Final EIS, released in late October, identified the RID as the preferred route between Joliet and Chicago. A connection would be added between the RID and Norfolk Southern/SouthWest Service track at 40th Street, allowing trains to enter CUS. Chicago – Omaha service utilizing the RID could also use this connection, and utilize additional track and signals along the corridor added to accommodate the St. Louis service.

Metra understands that capacity modeling will take place during the Tier 2 study. Thorough analysis is critical in order to fully identify the track and signal improvements and additional right-of-way needed to support the new service in addition to existing and proposed freight, commuter, and intercity passenger trains on the route, especially in the congested Chicago – Aurora segment. Here, capacity is particularly constrained during peak commuter traffic periods in the morning and afternoon. Metra wants to ensure that capacity is preserved for future expansion of Metra service in this successful and growing commuter corridor. Metra strongly recommends that the project team work closely with the BNSF and other railroad owners in the study area, so that the next phase of analysis accurately reflects current and future demands on the rail network.

As noted in the Tier 1 EIS document, Preliminary Engineering and an Environmental Assessment of a proposed extension of commuter service on the BNSF to Oswego are currently underway. The potential addition of Metra traffic on this segment of the line needs to be considered during Tier 2 when determining infrastructure improvements and right-of-way costs for the Chicago – Omaha service.

Currently, the south side of CUS is at capacity during much of the day, with a limited ability to accommodate additional trains. Recommendations to address this issue were developed as part of the CUS Master Plan study, and also include the relocation of Metra's SouthWest Service from CUS to LaSalle Street Station, as proposed in the CREATE Program. These recommendations, their timeline for implementation, and previous proposals for new train service that would utilize the south platforms of CUS, should be considered during the Tier 2 analysis.

Metra requests that additional efforts should be made to include all stakeholders in the process early and often during subsequent portions of this study. If you have any questions, or would like to arrange a meeting or conference call, don't hesitate to contact me directly or Lynnette Ciavarella at (312) 322-8022 or lciavare@metrarr.com to facilitate this conversation.

Sincerely,

Alexander D. Clifford
Executive Director/CEO

cc: D. Orseno, S. Smith, L. Ciavarella

Chicago to Omaha
Agency Comments on the Draft EIS

#5599 Web Comment from D Cavin (City of Durant, IA) 12/12/2012

Website Comment

Summary: As a small city, our biggiest concerns are the speed the trains will travel through our city, and the maintenance of the crossings, as well as the # of trains. Our city is split by the Rock Isalnd Line tracks. Existing trains travel 45 mph through town or faster. There have been numerous times in the last 6 months where all our crossings were blocked by a train. THis severely impedes our emergency vehicles from getting from side of the city to the other or even out into the rural areas they cover. We also do not want the responsibility of maintaining the crossings or upgrading the existing. We had hoped the passenger rail would actually by pass the City of Durant since we would not any depot for passengers to load or unload. What are the plans for small towns affected by passenger rail? We certainly do not want an increase in the number of trains passing through. Personally, I feel it is unfair that larger metropilis cities are favored and will benefit the most. THe smaller cities, once again, will just be run over, and we are struggling to survive now with DNR compliance for waste water and storm water requirements. THen the cutting of commercial property taxes.....when do little cities get a chance to be heard? We have to rtavel miles and miles to even get to a public hearing. Some may view this as exciting news, however, small city governments, view it as another hammer coming down on them with little choice to oppose.

Deana Cavin
City of Durant

#5771 Comment Letter from R Stewart (DOI) 12/17/2012

Comment

Summary: Dear Mr. Szabo: The Department of the Interior has reviewed the Draft Environmental Impact Statement (EIS) Department of Transportation (DOT), Federal Railroad Administration (FRA) for Chicago to Council Bluffs - Omaha Regional Passenger Rail System Planning Study Tier 1 Service Level, from Chicago, Illinois through Iowa and Omaha, NE, and offers the following comments provided by the U.S. Fish and Wildlife Service. General Comments The Secretary of the Interior, acting through the Fish and Wildlife Service, has primary responsibility for the management of the nation's fish and wildlife resources. The Fish and Wildlife Act of 1956, as amended, requires the Secretary to determine the policies and procedures necessary to implement fish and wildlife laws efficiently and in the national public interest. 16 U.S.C. § 742f(a). The Secretary has additional responsibilities to protect and manage the nation's fish and wildlife resources under other statutory authorities, namely: the Bald and Golden Eagle Act, 16 U.S.C. §§ 668-669(d); the Endangered Species Act, as amended, 16 U.S.C. §§ 1531-1543; and the Migratory Bird Treaty Act, 16 U.S.C. §§ 703-711. To ensure the adequate and equitable protection, mitigation of damage to, and enhancement of fish and wildlife resources, Federal Railroad

Administration/U.S.DOT, Iowa DOT should consult with the U.S. Fish and Wildlife Service (FWS) and State natural resource agencies to identify necessary studies. FWS has participated in scoping meetings for this Project and is aware that required studies will be addressed during the Tier 2 phase of this project. Most mitigation measures represent commitments for further coordination with this agency during Tier 2 studies as more detailed information on the design of the Project is developed. Fish and Wildlife Trust Resources There are significant public resources that must be protected or enhanced in some areas affected by the proposed project. In this regard, FWS concerns with the proposed Regional Passenger Mr. Joseph C. Szabo 2 Rail System from Chicago to Omaha and associated supporting development include potential adverse impacts to federal trust fish and wildlife resources and their supporting riparian, wetland, and terrestrial habitats. Particularly important are potential effects of project operation on the terrestrial environment, wetlands habitat, and migration pathways. In addition, lands managed as part of the National Wildlife Refuge System are located near the project and may be affected by project impacts to rivers (Mississippi River and Missouri River) and surrounding landscapes. Threatened & Endangered Species Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. Listed species for counties in Illinois and Iowa (Region 3), and Nebraska (Region 6), may be viewed at http://www.fws.gov/midwest/Endangered for Region 3 and http://www.fws.gov/mountainprairie/ endspp/ for Region 6. At a minimum, project evaluations should contain delineations of whether or not habitat for these species occurs within project boundaries, or will be affected by project construction and subsequent operation. In cases where these species are known to occur or potential habitat is rated moderate to high, surveys may be necessary. Please contact this office for further information should these species or their habitats be identified in the project area, or be affected by project activities. As of August 9, 2007, the bald eagle is no longer included on the list of threatened and endangered species, but it remains protected under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act. The bald eagle is a potential resident in parts of the project area and nests have been historically documented in the project area. Project evaluations should include potential impacts to the bald eagle and its habitat. For more information concerning the bald eagle protection, or if impacts to this species are expected, the USFWS should be contacted. Migratory Birds We recommend that the project be evaluated for potential impacts to wildlife, particularly migratory birds, from increased noise and vibration resulting from increases in train frequency and speed for the alternatives considered. If you have questions regarding these comments, please contact Heidi Woeber, U.S. Fish and Wildlife Service, 1511 47th Avenue, Moline, IL 61265, (309) 757-5800, ext. 209.

Robert Stewart
US Department of Interior

#6046 Comment Letter from USEPA 12/21/2012

Comment

Summary: In accordance with our responsibilities under Section 309 of the Clean Air Act and the National Environmental Policy Act, the U.S. Environmental Protection Agency Regions 5 and 7, have reviewed the Federal Railroad Administration's Draft Environmental Impact Statement on the Planning Study for the Regional Passenger Rail System. This DEIS was assigned a Council on Environmental Quality

identification number of20120354. Our review has concluded that adequate analysis of environmental issues relevant to the selection of the preferred alternative was performed. Therefore, EPA has assigned a rating of Lack of Objections to the DEIS. A copy of EPA's rating system is enclosed for your information. To assist the FRA in enhancing the Final EIS, and to focus Tier II analysis, EPA provides the following comments: 1. Coarse and Fine level screening occurred within corridors that were 500 foot wide and 100 foot wide (plus a buffer of 25-50 feet), respectively (ES. 3 .2.1, ES. 3 .2.2.2). However the table of impact (ES-1) does not clearly indicate at what scale the potential impacts are accounted. EPA recommends that the FEIS more clearly describe the study envelopes of: existing Right of Way, Right of Way (plus any additional included study area) for the fine screening, and the 500 foot study area in the coarse screening. 2. ES. 4.22 (Energy Use and Climate Change) predicts considerable decreases in automobile and bus passenger-miles per year and resultant decreases in greenhouse gasses. This section also predicts an automobile fuel decrease of approximately 12 million gallons. Does these predictions account for the increased diesel fuel usage for the rail system? 3. Section 2.2.2.2 (Station Stops). Vitally important to air quality analysis in Tier II studies, will be the amount of time spent by the train at these stations, the emission factors of the locomotives while idling, the land-use/human population at that location, and the baseline air quality condition (attainment/non-attainment/maintenance) at those stops. EPA invites FRA to use of spatial data tools such as NEPAssist (http: //nepassisttool.epa.gov/nepassist/entry.aspx) to help convey the potential impact of rail system pollutant sources upon receptors near these stops. 4. Section 3.1 0.2 provides some general information on three Superfund sites. For additional information on these sites, and most recent points-of-contact please refer to the following fact sheets: http:/ /www.epa.gov/region07 /cleanup/npl files/iad98068793 3 .pdf, http://www .epa.gov/region07 /cleanup/npl files/iaOOO 1610963 .pdf and, http://www .epa.gov/region07 /cleanup/npl files/iaOOO 161 0963 .pdf. 5. The Draft EIS states that there will be a connection built for the BNSF and Amtrak lines and ancillary facilities built around Wyanet, Illinois. Currently, there are no existing facilities, nor a connection between BNSF and Amtrak lines. Further examination and information related to environmental and public health impacts should be included in the Tier II documents. This analysis should include noise, air emission (especially diesel), storm water run-off, implications to local traffic and any impacts to sensitive populations. Thank you for the opportunity to review and provide comments on the DEIS. If you have questions or require additional clarification, please contact Shanna Horvatin at 312-886-7887, or myself at 913-551-7148.

Joe Cothern
US Environmental Protection Agency

#5769 Email Comment from K Andersen (Metra) 12/21/2012

Comment

Summary: Metra is still preparing comments to the Draft EIS, and unfortunately our response will not be ready by the end of the comment period on 12/26/12. We will submit our comments in January.

Kristen Andersen
Metra Commuter Rail

#5845 Comment Letter from IA SHPO 12/5/2012

Comment

Summary: We have received and reviewed the above referenced document. We understand that the intent of the Federal Railroad Administration is to initiate and conduct a tiered environmental assessment process. We understand that the purpose of the Tier 1 does not involve consultation regarding specific construction activities or about the potential historic properties that may be affected by specific construction activities. We understand that those consultations will occur as part of the Tier 2 NEPA documents and perhaps in separate Section 106 consultation documents. We do not have any comments on this draft document. We look forward to further consulting with your agency and the Iowa Department of Transportation on this project. Please reference the Review and Compliance Number provided above in all future submitted correspondence to our office for this project. Should you have any questions please contact me at the number below.

Douglas Jones
State Historical Society of Iowa

#5495 Letter from F. Martin Fee 11/21/2012

Comment

Summary: To Whom It May Concern: Thank you for your correspondence dated November 10, 2012 concerning the subject project The Iowa Tribe of Kansas and Nebraska shares the same concerns as the Winnebago and Yankton Sioux Tribes. Like the Yankton Sioux it is highly probable that the proposed routes and construction will fall within our ancestral lands, therefore, we are requesting to be included in any traditional cultural property (TCP) study and project coordination.

F. Martin Fee
Iowa Tribe of KS and NE

#5408 Email Comment from R Wurgler (US Coast Guard) 11/26/2012

Comment

Summary: Ms. Amanda Martin, My office is trying to determine if any new bridge will be built for this proposed project or are you planning to rehabilitate any bridges for this project?

Rodney Wurgler
US Coast Guard

#5410 Support Letter from City of Mount Vernon 11/26/2012

Comment

Summary: The City of Mount Vernon would like to take this opportunity to send a letter of support for the continuation and advancement of the development of a high speed, regional intercity passenger rail system serving Iowa and the Midwest. At Mount Vernon City Council meeting earlier this week, the draft environmental impact statement was discussed. The Council went on record in unanimous support of this endeavor and wish to convey this to you and the Office of Rail Transportation. The potential of this initiative in the longer term with respect to both positive economic and environmental impact should not be underestimated. If you have any furthe1 questions or are in need of clarification of our position and interest, please do not hesitate to contact us.

Scott Peterson
City of Mount Vernon

#5429 Web Comment from J Howe 11/28/2012

Website Comment

Summary: I (and family) in SW Iowa utilize the Chicago-CA Amtrak system at every opportunity available. A Chicago-Omaha route through central Iowa would be a big boost to Iowa. It is a sensible response to challenges of environmental degradation, urban development/redevelopment/growth management, and energy conservation. Iowans want transportation diversity and choice. Intermediate distance travel is best served by fast and reliable train service, in contrast with air and auto modes. I serve as governor-appointed At-Large member of Iowa's 5-member City Development Board. We deal with annexation/territorial expansion of cities. Many of the causes of poor urban development (sprawl upon the countryside and infrastructure inefficiencies) are directly relate to over-dependence on automobile transportation. Substantial expansion of passenger rail cannot help but relieve these underlying causes. By far, it is the least disruptive of good urban design efforts and quality of life outcomes.

Jay Howe
City Development Board (State of Iowa)

#5648 Email Comment from J Howe (City Development Board) 12/14/2012

Comment

Summary: I am not available to appear personally at the Council Bluffs, IA hearing. I fully support the passenger rail program for the Chicago-Omaha/CB route as proposed. It would be a significant step towards as well as a model for: 1. relief from growing auto and airplane congestion, 2. relief from urban sprawl development when highway capacities and extensions occur, and 3. relief from huge amounts of energy consumed (and pollution emitted) in transporting people in much less efficient ways than otherwise possible, i.e., train travel.

Jay Howe
City Development Board (State of Iowa)

#5441 Web Comment from S Maurice 11/29/2012

Website Comment

Summary: Our family lives just 20 minutes from Iowa City, IA. This is a very acceptable distance for us to drive and park to go to Omaha to the zoo with our kids or to go to the Chicago area to visit family. Either choice of build or no-build is better than driving. 79 mph is certainly faster than I would ever want to drive on an interstate to get to the same place as by train. I would welcome passenger train service this convenient to where I live. Thanks for the opportunity to participate in this comment forum. Respectfully, Steven Maurice

Steven Maurice
City of Mount Vernon, IA

#5476 Email Comment from B Taylor-McLaren 11/30/2012

Comment

Summary: As a long-time resident of Atlantic, IA, I would like to offer this letter in support of Passenger Rail trains coming through our town. I am still a relatively young adult at 39 years old, and it pains me sorely to see the small towns in our area losing revenue and population to the nearby cities of Omaha and Des Moines. I feel strongly that having Atlantic as a potential connection in the proposed passenger rail line will build and buffer the economy locally and provide the potential for greater security and higher quality of life for future generations residing in our area.

Billie Taylor-McLaren
Cass County

#5505 Web Comment from G Fruin 12/4/2012

Website Comment

Summary: The City of Iowa City would like to thank the Department of Transportation staff and their consultant team. Throughout the entire EIS study they have done an excellent job of keeping interested parties informed. From email updates to in-person meetings and online open houses, there has been a consistent flow of information that has been greatly appreciated. The City of Iowa City continues to be a strong advocate for an expanded regional passenger rail network throughout the State. As our surrounding states develop a robust regional rail network, Iowa must also proceed or risk placing itself in a competitive economic disadvantage for decades to come. We encourage the State to proceed with phase one of the regional line, which will connect Iowa City to Chicago. As demand for passenger rail grows and as funding opportunities become available, the service should be expanded to other population centers throughout Iowa. Passenger rail statistics reveal a rapidly increasing public

demand for service. Amtrak ridership throughout the country has experienced record ridership in nine of the last ten years. Ridership on midwestern rail routes utilizing Chicago as a hub have similiarly experienced tremendous growth in recent years. Iowa City believes the timing is right to begin to develop this important piece of the State's future transportation network. We stand ready to work with the Department of Transportation and again express our appreciation for their efforts to date.

Geoff Fruin
City of Iowa City, Iowa

#5535 Web Comment from J Cory (City of West Des Moines) 12/6/2012

Website Comment

Summary: Under Appendix B - Chapter 3 Figures - Part 3 Figure 117, The map shows several pink dots representing Historic Sites and I'm just curious if there is more explanation of these? Phone is 515-222-3492 or email is fine. Thanks!! Joe

Joe Cory
City of West Des Moines

#5721 Web Comment from S Prior (IA Dept of Health) 12/19/2012

Website Comment

Summary: I have eagerly awaited progress with this project for years and plan on using this regularly once it is up and running. I think the route from the quad cities to omaha through des moines is a logical course to take. i understand that other routes will be available connecting more communities to the railroad. it makes a lot of sense and i would happily pay more taxes to support this project.

Sieglinde Prior
IA Dept. of Public Health

#5772 Web Comment from J Bohac 12/26/2012

Website Comment

Summary: Passenger Rail from Omaha to Chicago is a great way to meet the travel demands of our future. I am excited to have Des Moines considered as one of the main stops. I think its important to limit the number of stops to more major cities along the route to keep the travel time in line with travel by car so the attractiveness of this new mode of transportation is kept high. I oversee the Traffic and Transportation Division for the City of Des Moines and would welcome involvement in determination of development of the rail station in the city. We can also work together on parking related needs associated with the new station if it ends up in downtown.

Jennifer Bohac
City of Des Moines

#5777 Email Comment from M Hayes (USACE) 12/19/2012

Comment

Summary: Andrea: In giving this a quick read, I'm very surprised that this project appears to be already down to one 'build' alternative (Alternative 4/4-A) after the Tier I analysis . Could that be true, or am I misunderstanding something? Also, I noted on Figure ES-3 that evidently there is a city called Galesburg in central Iowa along Alternative Route 4/4-A about where Des Moines used to be. I'm familiar with Galesburg, Illinois, but in over 25 years of working in the 404 Regulatory arena in Iowa, I never realized there was a Galesburg in that state! Considering mitigation for unavoidable impacts to wetlands and waters, they need to realize there are very few wetland mitigation banks in Iowa. There are no stream mitigation banks in the state and there are no "in-lieu-fee" programs in effect.

Mike Hayes
USACE

#5780 Email Comment from Senator Hogg 12/18/2012

Comment

Summary: Dear Ms. Nicholson: I am writing to express my support for the Chicago to Omaha rail improvements assessed in the Tier I Service Level Draft Environmental Impact Statement (Draft EIS). I believe the build alternative through Iowa City, Grinnell, and Des Moines is the best alternative and is a win-win-win-win project for Iowa: 1. Economic Benefits – The Draft EIS identifies “economic benefits provided through job creation, joint development, improved accessibility, and increased economic activity.” 2. Reduced Highway Congestion – The build alternative will reduce automobile traffic by “approximately 434.9 million passenger-miles per year.” Without the project, “nearly 75 percent of I-80 in Iowa would be bordering on unstable traffic flow.” 3. Reduced Oil Use – The build alternative will reduce gasoline consumption by 12 million gallons each year, reducing security risks associated with our dependence on oil. 4. Reduced Carbon Pollution – The build alternative will reduce carbon pollution that forces more climate change by more than 15,000 tons per year. To the extent that the Draft EIS has identified some minor adverse impacts, I know the Iowa DOT and its federal partners can minimize those impacts. In any event, the large benefits for jobs, our economy, mobility, reduced congestion, reduced oil use, and reduced carbon pollution are worth the costs associated with the build alternative. Thank you in advance for your consideration of my comments.

Rob Hogg
Iowa Senate

#6012 Comment Letter from Johnson County MPO 1/17/2013

Comment

Summary: In 2009, the Metropolitan Planning Organization of Johnson County (MPOJC) supported a proposed passenger rail service from Chicago to Iowa City; a service that would provide an environmentally friendly, convenient, and inexpensive travel option for the residents of metropolitan Iowa City and the neighboring communities, as well as the many college students in the Iowa City-Cedar Rapids corridor. After years of working with the Iowa Department of Transportation (IOOT), the Federal Rail Administration (FRA), and the Illinois Department of Transportation, MPOJC continues to support the proposed passenger rail service from Chicago to Iowa City and we also enthusiastically support passenger rail service to Des Moines and Council Bluffs/Omaha. Our board met on December 12, and reaffirmed its support, and requested that I send you this letter, asking you to accept the associated federal funding. I'm sure that you are aware of the many benefits of passenger rail service and we also understand that some Iowans question the investment in passenger rail service. The representatives of the MPOJC see passenger rail service as an opportunity to provide Iowa with a necessary and convenient travel option for business and pleasure travelers, seniors, students, and others in nearby communities. We understand that for every $1 invested in passenger rail service in Iowa, we can expect an estimated $1.70 in return. This kind of Investment would allow for needed economic growth opportunities as experienced in many other parts of the country and would benefit not only those communities with a station stop but Iowa as a whole, similar to the interstate system and airports. New commercial and residential developments are likely to spring up near passenger rail depots, helping to reinvigorate an area or community. It is estimated that 600 new and permanent jobs will be created as part of the Chicago to Iowa City passenger rail route alone with business activity increasing by $25 million per year, which increase various tax bases. Improving the regional rail infrastructure will benefit freight rail service as well, which is important to Iowa's economy, including agriculture. Investment in passenger rail service is a bold move for Iowa but it also prepares us for the growing challenge of moving people efficiently and conveniently in the future. This is an opportunity that may not be available to Iowa for quite some time if we don't proceed now and will put Iowa at a disadvantage when it comes to keeping Iowans in Iowa and providing the economic growth opportunities that will separate Iowa from other states without rail service. MPOJC and the Iowa City metropolitan area have committed to providing and maintaining a passenger rail station, have committed to using local funds to support the ongoing operating subsidy (in conjunction with other communities on the proposed passenger rail route and the IOOT), and have continued to plan for and promote this extremely important project for Iowa's future. Again, the MPOJC strongly supports the passenger rail project from Chicago to Iowa City, and we encourage you to accept the federal rail funding to complete the proposed project. We also strongly support your consideration of future passenger rail service from Iowa City to Des Moines and Council Bluffs/Omaha as well as other passenger rail routes proposed in Iowa. All routes are an important part of Iowa's future.

Gerald Kuhl
Metropolitan Planning Organization of Johnson County

#6090 Comment Letter from Metra 1/30/2013

Comment

Summary: Dear Ms. Martin: Metra offers the following comments regarding the Chicago to Council Bluffs - Omaha Tier I Service Level Draft Environmental Impact Statement (EIS). The document states that Alternative 4, which utilizes Metra Rock Island District (RID) track between Chicago and Joliet, is "neither reasonable or feasible" because it lacks a connection to Chicago Union Station (CUS). However, the Chicago - 51. Louis High Speed Rail Final E15, released in late October, identified the RID as the preferred route between Joliet and Chicago. A connection would be added between the RID and Norfolk Southern/SouthWest Service track at 40th Street, allowing trains to enter CUS. Chicago - Omaha service utilizing the RID could also use this connection, and utilize additional track and signals along the corridor added to accommodate the St. Louis service. Metra understands that capacity modeling will take place during the Tier 2 study. Thorough analysis is critical in order to fully identify the track and signal improvements and additional right~of~way needed to support the new service in addition to existing and proposed freight, commuter, and intercity passenger trains on the route, especially in the congested Chicago - Aurora segment. Here, capacity is particularly constrained during peak commuter traffic periods in the morning and afternoon. Metra wants to ensure that capacity is preserved for future expansion of Metra service in this successful and growing commuter corridor. Metra strongly recommends that the project team work closely with the BNSF and other railroad owners in the study area, so that the next phase of analysis accurately reflects current and future demands on the rail network. As noted in the Tier 1 EIS document, Preliminary Engineering and an Environmental Assessment of a proposed extension of commuter service on the BNSF to Oswego are currently underway. The potential addition of Metra traffic on this segment of the line needs to be considered during Tier 2 when determining infrastructure improvements and right-of-way costs for the Chicago - Omaha service. Currently, the south side of CUS is at capacity during much of the day, with a limited ability to accommodate additional trains. Recommendations to address this issue were developed as part of the CUS Master Plan study, and also include the relocation of Metra's SouthWest Service from CUS to LaSalle Street Station, as proposed in the CREATE Program. These recommendations, their timeline for implementation, and previous proposals for new train service that would utilize the south platforms of CUS, should be considered during the Tier 2 analysis. Metra requsts that additional efforts should be made to include all stakeholders in the process early and often during subsequent portions of this study. If you have any questions, or would like to arrange a meeting or conference call, don't hesitate to contact me directly or Lynnette Ciavarella at (312) 322-8022 or Iciavarc@metrarr.com to facilitate th is conversation.

Alexander Clifford
Metra