





## Appendix E-14: Rivers and Streams Kankakee River (Illinois River) Drainage Headwater

which will remove the tadpole madtom's preferred current-free, quiet habitat.

**Total Respondents**

**3**

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**10.** Please rank the following threats to the HABITAT of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

	<b>Critical threat</b>	<b>Serious threat</b>	<b>Somewhat of a threat</b>	<b>Slight threat</b>	<b>No threat</b>	<b>Unknown</b>	<b>Response Total</b>													
Commercial or residential development (sprawl)	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	0% (0)	<b>3</b>													
Counterproductive financial incentives or regulations	0% (0)	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	<b>3</b>													
Invasive/non-native species	0% (0)	0% (0)	67% (2)	0% (0)	0% (0)	33% (1)	<b>3</b>													
Nonpoint source pollution (sedimentation and nutrients)	33% (1)	0% (0)	67% (2)	0% (0)	0% (0)	0% (0)	<b>3</b>													
Habitat fragmentation	0% (0)	67% (2)	33% (1)	0% (0)	0% (0)	0% (0)	<b>3</b>													
Successional change	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	0% (0)	<b>3</b>													
Diseases (of plants that create habitat)	0% (0)	0% (0)	33% (1)	0% (0)	33% (1)	33% (1)	<b>3</b>													
Habitat degradation	67% (2)	0% (0)	33% (1)	0% (0)	0% (0)	0% (0)	<b>3</b>													
Climate change	0% (0)	0% (0)	33% (1)	33% (1)	33% (1)	0% (0)	<b>3</b>													
Stream channelization	33% (1)	67% (2)	0% (0)	0% (0)	0% (0)	0% (0)	<b>3</b>													
Impoundment of water/flow regulation	0% (0)	67% (2)	0% (0)	0% (0)	33% (1)	0% (0)	<b>3</b>													
Agricultural/forestry practices	33% (1)	0% (0)	67% (2)	0% (0)	0% (0)	0% (0)	<b>3</b>													
Residual contamination (persistent toxins)	0% (0)	0% (0)	33% (1)	33% (1)	33% (1)	0% (0)	<b>3</b>													
Point source pollution (continuing)	0% (0)	0% (0)	33% (1)	67% (2)	0% (0)	0% (0)	<b>3</b>													
Mining/acidification	0% (0)	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>													
Drainage practices (stormwater runoff)	33% (1)	0% (0)	0% (0)	33% (1)	33% (1)	0% (0)	<b>3</b>													
Unknown	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	<b>0</b>													
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	<b>0</b>													
<b>Total Respondents</b>							<b>47</b>													

**11.** Other HABITAT threats to the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

**Total Respondents      0**

**12.** Please briefly describe the top two HABITAT threats to the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana identified above.

The channelization of many streams in the upper Kankakee watershed and the associated fragmentation of wetland habitat has severely altered the state of the aquatic habitat in general.

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Non-point source pollution (sedimentation resulting in smothering of substrates and turbidity)  
 Habitat degradation (removal of vegetation and shallow water)

Stream channelization (straighting the channels to move water faster) and Habitat degradation (removal of debris in the stream to speed up the transfer of water off of the land and into the receiving stream)

**Total Respondents      3**

### 13. What current monitoring efforts by state agencies are you aware of for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	<b>Yes, these efforts occur</b>	<b>Not aware of these efforts occurring</b>	<b>Response Total</b>
Statewide year-round monitoring conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Statewide once a year monitoring conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Regional or local year-round monitoring conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Regional or local once a year monitoring conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by state agencies	67% (2)	33% (1)	<b>3</b>
		<b>Total Respondents</b>	<b>24</b>

### 14. What current monitoring efforts by other organizations are you aware of for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	<b>Yes, these efforts occur</b>	<b>Not aware of these efforts occurring</b>	<b>Response Total</b>
Statewide year-round monitoring conducted by other organizations	0% (0)	100% (3)	<b>3</b>
Statewide once a year monitoring conducted by other organizations	0% (0)	100% (3)	<b>3</b>
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	100% (3)	<b>3</b>
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	100% (3)	<b>3</b>
Regional or local year-round monitoring conducted by other	0% (0)	100% (3)	<b>3</b>



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**16.** How crucial are these monitoring efforts by other organizations for the conservation of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	<b>Very crucial</b>	<b>Somewhat crucial</b>	<b>Slightly crucial</b>	<b>Not crucial</b>	<b>Unknown</b>	<b>Response Total</b>
Statewide year-round monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	<b>3</b>
Statewide once a year monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	<b>3</b>
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	<b>3</b>
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	<b>3</b>
Regional or local year-round monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	<b>3</b>
Regional or local once a year monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	<b>3</b>
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	<b>3</b>
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	<b>3</b>
<b>Total Respondents</b>						<b>24</b>

**17.** Regional or local state agency monitoring for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

DNR fishery surveys are occasionally conducted on the Iroquois River, the Yellow River, and the Kankakee River. IDEM occasionally samples fish for contaminants analysis for the annual Fish Consumption Advisory.

IDEM and IDNR collect fish community samples in this area; thus, they may have data on the distribution of Least darters.

IDEM monitors the Kankakee River basin once every five years to determine if the stream are supporting a well-balanced warmwater aquatic community. Tadpole madtoms may have been captured while sampling headwater streams.

**Total Respondents      3**

**18.** Regional or local monitoring by other organizations for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

**Total Respondents      0**

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**19.** Please list organizations that are monitoring the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

DNR and IDEM

**Total Respondents 1**

**20.** What are the current monitoring techniques for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Frequently used	Occasionally used	Not used but possible with existing technology and data	Not used and not possible with existing technology and data	Not economically feasible	Unknown	Response Total
Radio telemetry and tracking	0% (0)	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	<b>3</b>
Modeling	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	<b>3</b>
Coverboard routes	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	<b>1</b>
Spot mapping	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	<b>1</b>
Driving a survey route	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	<b>1</b>
Reporting from harvest, depredation, or unintentional take (road kill, bycatch)	0% (0)	33% (1)	0% (0)	33% (1)	0% (0)	33% (1)	<b>3</b>
Mark and recapture	0% (0)	0% (0)	67% (2)	0% (0)	0% (0)	33% (1)	<b>3</b>
Professional survey/census	0% (0)	67% (2)	0% (0)	0% (0)	0% (0)	33% (1)	<b>3</b>
Volunteer survey/census	0% (0)	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	<b>3</b>
Trapping (by any technique)	0% (0)	33% (1)	0% (0)	0% (0)	0% (0)	67% (2)	<b>3</b>
Representative sites	0% (0)	100% (3)	0% (0)	0% (0)	0% (0)	0% (0)	<b>3</b>
Probabilistic sites	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	0% (0)	<b>3</b>
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	<b>1</b>
							<b>Total Respondents 31</b>

**21.** Other monitoring techniques for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

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**Total Respondents 0**

**22.** What one or two monitoring techniques would you recommend for effective conservation of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

Periodic electrofishing surveys and mark recapture techniques probably provide the best information about the pike populations.

Representative sites or look for sites where the habitat is suitable for the least darter and seine in the vegetation over rocky substrate.

seining or kick net  
electrofishing

**Total Respondents 3**

**23.** What current HABITAT inventory and assessment efforts or activities by state agencies are you aware of for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	<b>Yes, these efforts occur</b>	<b>No effort that I'm aware of</b>	<b>Response Total</b>
Statewide annual inventory and assessment conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Statewide once a year inventory and assessment conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Regional or local year-round inventory and assessment conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Regional or local once a year inventory and assessment conducted by state agencies	0% (0)	100% (3)	<b>3</b>
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	33% (1)	67% (2)	<b>3</b>
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	33% (1)	67% (2)	<b>3</b>
			<b>Total Respondents 24</b>

**24.** What current HABITAT inventory and assessment efforts or activities by other organizations are you aware of for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	<b>Yes, these efforts occur</b>	<b>No effort that I'm aware of</b>	<b>Response Total</b>
Statewide year-round inventory and assessment conducted by other	0% (0)	100% (3)	<b>3</b>



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Total Respondents 16



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**26.** How crucial are these HABITAT efforts by other organizations for the conservation of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	These efforts are very crucial for this HABITAT	These efforts are somewhat crucial for this HABITAT	These efforts are slightly crucial for this HABITAT	These efforts are not crucial for this HABITAT	Unknown	Response Total
Statewide year-round inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
Statewide once a year inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
Regional or local year-round inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
Regional or local once a year inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	50% (1)	50% (1)	2
				<b>Total Respondents</b>		<b>16</b>

**27.** Regional or local state agency HABITAT inventory and assessment for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

Habitat evaluations are conducted as part of general stream surveys by DNR biologists. Such surveys have been conducted on the Iroquois River, the Yellow River, and the Kankakee River.

As I stated in previous surveys, the QHEI would provide a habitat assessment for sites where least darters were collected.

IDEM conducts a habitat assessment while sampling stream for fish community assessments using the QHEI (Qualitative Habitat Evaluation Index).

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**Total Respondents 3**

**28.** Regional or local HABITAT inventory and assessment by other organizations for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

**Total Respondents 0**

**29.** Please list organizations that are monitoring this HABITAT for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

DNR division of Fish and Wildlife

**Total Respondents 1**

**30.** What are the current HABITAT inventory and/or assessment techniques for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana? If a technique is not applicable to the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat do not select a response in that row.

	Frequently used	Occasionally used	Not used but possible with existing technology and data	Not used and not possible with existing technology and data	Not economically feasible	Unknown	Response Total
GIS mapping	0% (0)	0% (0)	50% (1)	0% (0)	0% (0)	50% (1)	2
Aerial photography and analysis	0% (0)	0% (0)	50% (1)	0% (0)	0% (0)	50% (1)	2
Systematic sampling	50% (1)	50% (1)	0% (0)	0% (0)	0% (0)	0% (0)	2
Property tax estimates	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
State revenue data	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Regulatory information	0% (0)	50% (1)	0% (0)	0% (0)	0% (0)	50% (1)	2
Participation in landuse programs	0% (0)	50% (1)	0% (0)	0% (0)	0% (0)	50% (1)	2
Modeling	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Voluntary landowner reporting	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0
							<b>Total Respondents 14</b>

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**31.** Other HABITAT inventory and assessment techniques for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

**Total Respondents      0**

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**32.** What one or two HABITAT inventory and assessment techniques would you recommend for effective conservation of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

Systematic sampling of the habitat along the length of the stream to provide baseline data for comparison across time. GIS mapping of restored, fully connected wetland to provide an inventory of available spawning habitat.

**Total Respondents 1**

**33.** What is the current body of science for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Response Total	Response Percent
Complete, up to date and extensive	0	0%
Adequate	0	0%
Inadequate	3	100%
Nonexistent	0	0%
Other (please explain below)	0	0%
<b>Total Respondents</b>	<b>3</b>	

**34.** Please provide a citation (title, author, date, publisher) that would give the best overview of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana, if available. This resource may be used if further detail is needed.

Title = Fishery, Habitat, and Recreational Use Surveys for the Kankakee River  
 Author = Price and Robertson  
 Date = 2005  
 Publisher = DNR - Division of Fish and Wildlife (in review)

**Response Total Response Percent**

**35.** If possible, please provide a second citation (title, author, date, publisher) that would give another good overview of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana. This resource may also be used if further detail is needed.

Title = A fishery survey of the Kankakee River in Indiana  
 Author = Robertson and Ledet  
 Date = 1981  
 Publisher = DNR - Division of Fish and Wildlife

**Response Total Response Percent**

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**36.** What is the current HABITAT body of science for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Response Total	Response Percent
Complete, up to date and extensive	0	0%
Adequate	0	0%
Inadequate	3	100%
Nonexistent	0	0%
Other (please explain below)	0	0%
<b>Total Respondents</b>		<b>3</b>

**37.** Please provide a citation (title, author, date, publisher) that would give the best HABITAT overview of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana, if available. This resource may be used if further detail is needed.

Title = Fishery, Habitat, and Recreational Use Surveys for the Kankakee River		
Author = Price and Robertson		
Date = 2005		
Publisher = DNR - Division of Fish and Wildlife (in review)		
	<b>Response Total</b>	<b>Response Percent</b>

**38.** If possible, please provide a second citation (title, author, date, publisher) that would give another good HABITAT overview of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana. This resource may also be used if further detail is needed.

Title = A fishery survey of the Kankakee River in Indiana		
Author = Robertson and Ledet		
Date = 1981		
Publisher = DNR - Division of Fish and Wildlife		
	<b>Response Total</b>	<b>Response Percent</b>



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**42.** Other HABITAT research needs for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

**Total Respondents 0**

**43.** How well do the following conservation efforts address the threats to the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	<b>Very well</b>	<b>Somewhat</b>	<b>Not at all</b>	<b>Not used</b>	<b>Unknown</b>	<b>Response Total</b>
Habitat protection (use below for details)	50% (1)	50% (1)	0% (0)	0% (0)	0% (0)	<b>2</b>
Population management (hunting, trapping)	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Population enhancement (captive breeding and release)	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Reintroduction (restoration)	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Food plots	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Threats reduction	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Native predator control	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Exotic/invasive species control	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Regulation of collecting	0% (0)	100% (2)	0% (0)	0% (0)	0% (0)	<b>2</b>
Disease/parasite management	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Translocation to new geographic range	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Protection of migration routes	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Limiting contact with pollutants/contaminants	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Public education to reduce human disturbance	0% (0)	0% (0)	50% (1)	50% (1)	0% (0)	<b>2</b>
Culling/selective removal	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Stocking	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	<b>0</b>
				<b>Total Respondents</b>		<b>32</b>

**44.** Other current conservation practices for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

**Total Respondents 0**

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**45.** What one or two specific practices would you recommend for more effective conservation of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

Restoring the connection between the streams and the wetlands that were formerly associated with them to allow pike access to spawning areas. Current water management regimes often rely on pumping to fill restored wetlands, thus, fish passage is still restricted.

Habitat protection and the possible reintroduction of the least darter into suitable habitats that have been restored.

Habitat protection

**Total Respondents 3**

**46.** How well do the following conservation efforts address the HABITAT threats to the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	<b>Very well</b>	<b>Somewhat</b>	<b>Not at all</b>	<b>Not used</b>	<b>Unknown</b>	<b>Response Total</b>
Habitat protection through regulation	50% (1)	0% (0)	50% (1)	0% (0)	0% (0)	<b>2</b>
Habitat protection on public lands	0% (0)	100% (2)	0% (0)	0% (0)	0% (0)	<b>2</b>
Habitat protection incentives (financial)	50% (1)	0% (0)	50% (1)	0% (0)	0% (0)	<b>2</b>
Habitat restoration through regulation	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	<b>1</b>
Habitat restoration on public lands	50% (1)	0% (0)	50% (1)	0% (0)	0% (0)	<b>2</b>
Habitat restoration incentives (financial)	50% (1)	0% (0)	50% (1)	0% (0)	0% (0)	<b>2</b>
Artificial habitat creation (artificial reefs, nesting platforms)	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Selective use of functionally equivalent exotic species in place of extirpated natives	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Succession control (fire, mowing)	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Corridor development/protection	0% (0)	0% (0)	0% (0)	100% (2)	0% (0)	<b>2</b>
Managing water regimes	0% (0)	50% (1)	50% (1)	0% (0)	0% (0)	<b>2</b>
Pollution reduction	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Protection of adjacent buffer zone	50% (1)	50% (1)	0% (0)	0% (0)	0% (0)	<b>2</b>
Restrict public access and disturbance	50% (1)	0% (0)	0% (0)	50% (1)	0% (0)	<b>2</b>
Land use planning	50% (1)	0% (0)	0% (0)	50% (1)	0% (0)	<b>2</b>
Technical assistance	0% (0)	50% (1)	0% (0)	50% (1)	0% (0)	<b>2</b>
Cooperative land management agreements (conservation easements)	50% (1)	50% (1)	0% (0)	0% (0)	0% (0)	<b>2</b>
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	<b>0</b>
						<b>Total Respondents 31</b>

**47.** Other current HABITAT conservation practices for the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

Appendix E-14: Rivers and Streams Kankakee River (Illinois River) Drainage Headwater

No responses were entered for this question.

**Total Respondents**      **0**

Appendix E-14: Rivers and Streams Kankakee River (Illinois River) Drainage Headwater

**48.** What one or two specific HABITAT practices would you recommend for more effective conservation of the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

Wetland restoration projects with connectivity to the stream or "corridor" development that allows passage to wetlands already restored. We need to move toward natural regulation of water levels instead of artificial means.

Habitat protection through regulation  
Protection of adjacent buffer zone.

Habitat protection  
Restrict disturbance to habitat (dredging, removal of debris)

**Total Respondents 3**

**49.** Do you have any additional comments or information on the Wildlife in Headwaters of the Kankakee River (Illinois River) Drainage Habitat that you feel would be useful in the development of the Indiana Comprehensive Wildlife Strategy?

IDEM has captured least darters at the following locations: Ringeisen Ditch, Trib of Carpenter Cr, Keefe Ditch, Claude May Ditch, and Howe Ditch in Jasper County, Singleton Ditch in Lake Co., Weiss Ditch in Newton Co., and Minier Lateral in Benton Co.

IDEM has collected tadpole madtoms on the following streams: West Creek and Singleton Ditch in Lake County, Dausman Ditch in Kosciusko Co., Bogus Run in Starke Co., and Slough Creek in Jasper Co.

**Total Respondents 2**