

Appendix E-15: Rivers and Streams Kankakee River (Illinois River) Drainage
Wadeable/Large River

7. Please also rank these threats to the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

	Critical threat	Serious threat	Somewhat of a threat	Slight threat	No threat	Unknown	Response Total
Habitat loss (breeding range)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1
Habitat loss (feeding/foraging areas)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1
Small native range (high endemism)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Near limits of natural geographic range	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Large home range requirements	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Viable reproductive population size or availability	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Specialized reproductive behavior or low reproductive rates	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Degradation of movement/migration routes (overwintering habitats, nesting and staging sites)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Genetic pollution (hybridization)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Unknown	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
Total Respondents							10

8. Other threats to the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents 0

9. Please briefly describe the top two threats to the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana identified above.

habitat loss/unintentional take-'cleaning' and dredging of streams of the Kankakee drainage can result in a large amount of creek heelsplitters being lost
dependence on other wildlife species-require fish host to reproduce; if fish populations decrease for any of a variety of reasons, then creek heelsplitter reproduction could decrease substantially

Habitat loss - requires shallow clear water with little current in weedy areas over gravel, sand, and silt to feed on insects and lay reproduce

Dredging (removal of aquatic vegetation and increasing depth of ditch)

Runoff (increases flow of stream, turbidity, and siltation of needed substrates)

Habitat loss (breeding & feeding)- the tadpole madtom feeds in dense vegetation and hides from predators in the leaf litter, dead wood, and other cover. By removing vegetation and cover in the stream, the tadpole madtom also loses spawning areas (tadpole madtoms typically lay eggs under submerged objects).

Degradation of the stream channel will also increase the velocity of the current (if straightened or cleared of

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Degradation of the stream channel will also increase the velocity of the current (if straightened or cleared of debris) which will remove the tadpole madtom's preferred current-free, quiet habitat.

Total Respondents 3

10. Please rank the following threats to the HABITAT of the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

	Critical threat	Serious threat	Somewhat of a threat	Slight threat	No threat	Unknown	Response Total													
Commercial or residential development (sprawl)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	1													
Counterproductive financial incentives or regulations	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1													
Invasive/non-native species	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	1													
Nonpoint source pollution (sedimentation and nutrients)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1													
Habitat fragmentation	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1													
Successional change	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1													
Diseases (of plants that create habitat)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1													
Habitat degradation	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1													
Climate change	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1													
Stream channelization	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1													
Impoundment of water/flow regulation	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1													
Agricultural/forestry practices	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1													
Residual contamination (persistent toxins)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1													
Point source pollution (continuing)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1													
Mining/acidification	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1													
Drainage practices (stormwater runoff)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1													
Unknown	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)	100% (1)	1													
							Total Respondents	18												

11. Other HABITAT threats to the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents 0

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

habitat degradation, stream channelization-cause temporary loss of habitat and impact the mussels directly by killing them or taking them out of the habitat

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 Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Yes, these efforts occur	Not aware of these efforts occurring	Response Total
Statewide year-round monitoring conducted by state agencies	0% (0)	100% (1)	1
Statewide once a year monitoring conducted by state agencies	0% (0)	100% (1)	1
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (1)	1
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by state agencies	100% (1)	0% (0)	1
Regional or local year-round monitoring conducted by state agencies	0% (0)	100% (1)	1
Regional or local once a year monitoring conducted by state agencies	0% (0)	100% (1)	1
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (1)	1
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (1)	1
		Total Respondents	8

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

	Yes, these efforts occur	Not aware of these efforts occurring	Response Total
Statewide year-round monitoring conducted by other organizations	0% (0)	100% (1)	1
Statewide once a year monitoring conducted by other organizations	0% (0)	100% (1)	1
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	100% (1)	1
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	100% (1)	1
Regional or local year-round monitoring conducted by other organizations	0% (0)	100% (1)	1
Regional or local once a year monitoring conducted by other organizations	0% (0)	100% (1)	1
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	100% (1)	1
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	100% (1)	1
		Total Respondents	8

15. How crucial are these monitoring efforts by state agencies for the conservation of the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Very crucial	Somewhat crucial	Slightly crucial	Not crucial	Unknown	Response Total
Statewide year-round monitoring conducted by state agencies	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Statewide once a year monitoring conducted by state agencies	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by state agencies	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Regional or local year-round monitoring conducted by state agencies	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Regional or local once a year monitoring conducted by state agencies	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Occasional regional or local (less than						

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once a year and not regularly scheduled)
monitoring conducted by state agencies

Total Respondents 8

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

	Very crucial	Somewhat crucial	Slightly crucial	Not crucial	Unknown	Response Total
Statewide year-round monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Statewide once a year monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Regional or local year-round monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Regional or local once a year monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Total Respondents						8

17. Regional or local state agency monitoring for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

random locations within the Kankakee drainage

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 Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

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none		Total Respondents	1
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19.	Please list organizations that are monitoring the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.		
none		Total Respondents	1

20.	What are the current monitoring techniques for the Wildlife in Wadeable/ Large Rivers 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)	0% (0)
Modeling	0% (0)	0% (0)	0% (0)
Coverboard routes	0% (0)	0% (0)	0% (0)
Spot mapping	0% (0)	0% (0)	0% (0)
Driving a survey route	0% (0)	0% (0)	0% (0)
Reporting from harvest, depredation, or unintentional take (road kill, bycatch)	0% (0)	0% (0)	0% (0)
Mark and recapture	0% (0)	0% (0)	0% (0)
Professional survey/census	100% (1)	0% (0)	0% (0)
Volunteer survey/census	0% (0)	0% (0)	0% (0)
Trapping (by any technique)	0% (0)	0% (0)	0% (0)
Representative sites	0% (0)	0% (0)	0% (0)
Probabilistic sites	0% (0)	0% (0)	0% (0)
Other (please specify below)	0% (0)	0% (0)	0% (0)

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Total Respondents 1

21. Other monitoring techniques for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents 0

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

professional surveys using timed searches, systematic sampling (Strayer and Smith 2003)-A guide to sampling freshwater mussel populations. American Fisheries Society Monograph 8. American Fisheries Society. Bethesda, Maryland. 103 pp.

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 Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Yes, these efforts occur	No effort that I'm aware of	Response Total
Statewide annual inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
Statewide once a year inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
Regional or local year-round inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
Regional or local once a year inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	100% (1)	1
			Total Respondents 8

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

	Yes, these efforts occur	No effort that I'm aware of	Response Total
Statewide year-round inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
Statewide once a year inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
Regional or local year-round inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
Regional or local once a year inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	100% (1)	1
		Total Respondents	8

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26. How crucial are these HABITAT efforts by other organizations for the conservation of the Wildlife in Wadeable/ Large Rivers 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)	100% (1)	0% (0)	1
Statewide once a year inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Regional or local year-round inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Regional or local once a year inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
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)	100% (1)	0% (0)	1
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)	100% (1)	0% (0)	1
				Total Respondents		8

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

none

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).

Total Respondents 3

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31. Other HABITAT inventory and assessment techniques for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents 0

(skipped this question) 1

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

don't really think that a habitat inventory of any kind is necessary for creek heelsplitter habitat in the Kankakee drainage

Total Respondents 1

33. What is the current body of science for the Wildlife in Wadeable/ Large Rivers 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%
Total Respondents	3	

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

	Response Total	Response Percent
Title	0	0%
Author	0	0%
Date	0	0%
Publisher	0	0%
Total Respondents	0	

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

	Response Total	Response Percent
Title	0	0%
Author	0	0%
Date	0	0%
Publisher	0	0%
Total Respondents	0	
(skipped this question)		1

36. What is the current HABITAT body of science for the Wildlife in Wadeable/ Large Rivers 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	1	100%
Nonexistent	0	0%
Other (please explain below)	0	0%
Total Respondents	1	

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

	Response Total	Response Percent
Title	0	0%
Author	0	0%
Date	0	0%
Publisher	0	0%
Total Respondents	0	
(skipped this question)		1

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

	Response Total	Response Percent
Title	0	0%
Author	0	0%
Date	0	0%
Publisher	0	0%
	Total Respondents	0
	(skipped this question)	1

39. What are the research needs for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Urgently needed	Greatly needed	Needed	Slightly needed	Not needed	Unknown	Response Total
Life cycle	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Distribution and abundance	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Limiting factors (food, shelter, water, breeding sites)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Threats (predators/competition, contamination)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Relationship/dependence on specific habitats	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Population health (genetic and physical)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
	Total Respondents						7

40. Other research needs for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents 0

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41. What are the HABITAT research needs for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana?

	Urgently needed	Greatly needed	Needed	Slightly needed	Not needed	Unknown	Response Total											
Successional changes	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1											
Distribution and abundance (fragmentation)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1											
Threats (land use change/competition, contamination/global warming)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1											
Relationship/dependence on specific site conditions	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	0% (0)	1											
Growth and development of individual components of the habitat	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1											
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1											
							Total Respondents	6										

42. Other HABITAT research needs for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents **0**

(skipped this question) **1**

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

	Very well	Somewhat	Not at all	Not used	Unknown	Response Total
Habitat protection (use below for details)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Population management (hunting, trapping)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Population enhancement (captive breeding and release)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Reintroduction (restoration)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Food plots	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Threats reduction	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Native predator control	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Exotic/invasive species control	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Regulation of collecting	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Disease/parasite management	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Translocation to new geographic range	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Protection of migration routes	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Limiting contact with pollutants/contaminants	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Public education to reduce human disturbance	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	1
Culling/selective removal	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Stocking	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Other (please specify below)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
				Total Respondents		17

44. Other current conservation practices for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents 0

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

protect habitat by limiting the amount of dredging that occurs in the Kankakee watershed

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

Habitat protection

Appendix E-15: Rivers and Streams Kankakee River (Illinois River) Drainage
Wadeable/Large River

Total Respondents 3

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

	Very well	Somewhat	Not at all	Not used	Unknown	Response Total
Habitat protection through regulation	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Habitat protection on public lands	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Habitat protection incentives (financial)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Habitat restoration through regulation	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Habitat restoration on public lands	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Habitat restoration incentives (financial)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Artificial habitat creation (artificial reefs, nesting platforms)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Selective use of functionally equivalent exotic species in place of extirpated natives	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Succession control (fire, mowing)	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Corridor development/protection	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Managing water regimes	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Pollution reduction	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Protection of adjacent buffer zone	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Restrict public access and disturbance	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Land use planning	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Technical assistance	0% (0)	0% (0)	0% (0)	100% (1)	0% (0)	1
Cooperative land management agreements (conservation easements)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	100% (1)	1
				Total Respondents		18

47. Other current HABITAT conservation practices for the Wildlife in Wadeable/ Large Rivers of the Kankakee River (Illinois River) Drainage Habitat in Indiana.

No responses were entered for this question.

Total Respondents 0

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

any type of habitat protection/restoration-eliminate dredging

Habitat protection through regulation
Protection of adjacent buffer zone.

Appendix E-15: Rivers and Streams Kankakee River (Illinois River) Drainage
Wadeable/Large River

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 Wadeable/ Large Rivers 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