

Appendix E-49: Grasslands

6. Please rank the following threats to the Wildlife in Grassland Habitats in Indiana.

	Critical threat	Serious threat	Somewhat of a threat	Slight threat	No threat	Unknown	Response Total
Invasive/non-native species	0% (0)	0% (0)	25% (2)	25% (2)	38% (3)	12% (1)	8
High sensitivity to pollution	0% (0)	0% (0)	0% (0)	38% (3)	12% (1)	50% (4)	8
Bioaccumulation of contaminants	0% (0)	0% (0)	25% (2)	12% (1)	12% (1)	50% (4)	8
Predators (native or domesticated)	0% (0)	0% (0)	12% (1)	25% (2)	38% (3)	25% (2)	8
Dependence on other species (mutualism, pollinators)	0% (0)	12% (1)	12% (1)	0% (0)	63% (5)	12% (1)	8
Diseases/parasites (of the species itself)	0% (0)	0% (0)	14% (1)	14% (1)	43% (3)	26% (2)	7
Regulated hunting/fishing pressure (too much)	0% (0)	0% (0)	0% (0)	12% (1)	75% (6)	12% (1)	8
Species over population	0% (0)	0% (0)	0% (0)	0% (0)	88% (7)	12% (1)	8
Unintentional take/ direct mortality (e.g., vehicle collisions, power line collisions, by-catch, harvesting equipment, land preparation machinery)	0% (0)	0% (0)	12% (1)	12% (1)	50% (4)	25% (2)	8
Unregulated collection pressure	0% (0)	0% (0)	0% (0)	12% (1)	75% (6)	12% (1)	8
Dependence on irregular resources (cyclical annual variations) (e.g., food, water, habitat limited due to annual variations in availability)	0% (0)	0% (0)	25% (2)	12% (1)	38% (3)	25% (2)	8
							88
							Total Respondents

7. Please also rank these threats to the Wildlife in Grassland Habitats in Indiana.

	Critical threat	Serious threat	Somewhat of a threat	Slight threat	No threat	Unknown	Response Total
Habitat loss (breeding range)	25% (2)	25% (2)	25% (2)	12% (1)	12% (1)	0% (0)	8
Habitat loss (feeding/foraging areas)	25% (2)	38% (3)	12% (1)	12% (1)	12% (1)	0% (0)	8
Small native range (high endemism)	14% (1)	0% (0)	14% (1)	14% (1)	43% (3)	14% (1)	7
Near limits of natural geographic range	0% (0)	12% (1)	12% (1)	25% (2)	38% (3)	12% (1)	8
Large home range requirements	0% (0)	0% (0)	25% (2)	25% (2)	38% (3)	12% (1)	8
Viable reproductive population size or availability	0% (0)	12% (1)	0% (0)	0% (0)	63% (5)	25% (2)	8
Specialized reproductive behavior or low reproductive rates	0% (0)	0% (0)	25% (2)	12% (1)	50% (4)	12% (1)	8
Degradation of movement/migration routes	0% (0)	12% (1)	12% (1)	25% (2)	38% (3)	12% (1)	8

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agencies			
Regional or local once a year monitoring conducted by state agencies	12% (1)	88% (7)	8
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (8)	8
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by state agencies	25% (2)	75% (6)	8
		Total Respondents	64

14. What current monitoring efforts by other organizations are you aware of for the Wildlife in Grassland Habitats 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% (7)	7
Statewide once a year monitoring conducted by other organizations		0% (0)	100% (7)	7
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by other organizations		0% (0)	100% (7)	7
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by other organizations		0% (0)	100% (7)	7
Regional or local year-round monitoring conducted by other organizations		0% (0)	100% (7)	7
Regional or local once a year monitoring conducted by other organizations		0% (0)	100% (7)	7
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by other organizations		0% (0)	100% (7)	7
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by other organizations		0% (0)	100% (7)	7
			Total Respondents	56

15. How crucial are these monitoring efforts by state agencies for the conservation of the Wildlife in Grassland Habitats in Indiana?		Very crucial	Somewhat crucial	Slightly crucial	Not crucial	Unknown	Response Total
Statewide year-round monitoring conducted by state agencies		12% (1)	0% (0)	0% (0)	63% (5)	25% (2)	8
Statewide once a year monitoring conducted by state agencies		0% (0)	12% (1)	12% (1)	50% (4)	25% (2)	8
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by state agencies		0% (0)	0% (0)	12% (1)	50% (4)	38% (3)	8

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17. Regional or local state agency monitoring for the Wildlife in Grassland Habitats in Indiana.

Statewide within the range of Crawfish frogs: the Indiana Amphibian Monitoring Program (IAMP) part of the North American Amphibian Monitoring Program and Frog Watch are conducted annually during the crawfish frog breeding season. The data can be analyzed regionally

The Indiana Division of Fish and Wildlife and the Division of Nature Preserves maintain data on the occurrence location of road-kill, accidentally trapped or other verified human encounters with badgers.

Total Respondents 2

18. Regional or local monitoring by other organizations for the Wildlife in Grassland Habitats in Indiana.

None known

None known

Total Respondents 2

19. Please list organizations that are monitoring the Wildlife in Grassland Habitats in Indiana.

None known

no monitoring done or needed for some wildlife species.

None known

Total Respondents 3

20. What are the current monitoring techniques for the Wildlife in Grassland Habitats 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)	80% (4)	0% (0)	0% (0)	20% (1)	5
Modeling	0% (0)	0% (0)	60% (3)	0% (0)	20% (1)	20% (1)	5
Coverboard routes	0% (0)	0% (0)	67% (2)	0% (0)	0% (0)	33% (1)	3
Spot mapping	0% (0)	0% (0)	25% (1)	0% (0)	0% (0)	75% (3)	4
Driving a survey route	0% (0)	0% (0)	20% (1)	20% (1)	20% (1)	40% (2)	5
Reporting from harvest, depredation, or unintentional take	40% (2)	20% (1)	0% (0)	0% (0)	0% (0)	40% (2)	5

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scheduled) inventory and assessment conducted by state agencies			
Regional or local year-round inventory and assessment conducted by state agencies	0% (0)	100% (8)	8
Regional or local once a year inventory and assessment conducted by state agencies	0% (0)	100% (8)	8
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	100% (8)	8
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	12% (1)	88% (7)	8
		Total Respondents	64

24. What current HABITAT inventory and assessment efforts or activities by other organizations are you aware of for the Wildlife in Grassland Habitats 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% (8)	8
Statewide once a year inventory and assessment conducted by other organizations	0% (0)	100% (8)	8
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	100% (8)	8
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	100% (8)	8
Regional or local year-round inventory and assessment conducted by other organizations	0% (0)	100% (8)	8
Regional or local once a year inventory and assessment conducted by other organizations	0% (0)	100% (8)	8
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	12% (1)	88% (7)	8
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	100% (8)	8
		Total Respondents	64

25. How crucial are these HABITAT efforts by state agencies for the conservation of the Wildlife in Grassland Habitats 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 annual inventory and assessment conducted by state	12% (1)	0% (0)	12% (1)	63% (4)	25% (2)	8

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Statewide once a year inventory and assessment conducted by state agencies	0% (0)	12% (1)	12% (1)	50% (4)	25% (2)		8
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	0% (0)	12% (1)	50% (4)	33% (3)		8
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	0% (0)	25% (2)	38% (3)	38% (3)		8
Regional or local year-round inventory and assessment conducted by state agencies	0% (0)	12% (1)	25% (2)	38% (3)	25% (2)		8
Regional or local once a year inventory and assessment conducted by state agencies	0% (0)	0% (0)	12% (1)	50% (4)	38% (3)		8
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	0% (0)	25% (2)	38% (3)	25% (3)		8
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	0% (0)	25% (2)	38% (3)	38% (3)		8
						Total Respondents	64

26. How crucial are these HABITAT efforts by other organizations for the conservation of the Wildlife in Grassland Habitats 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)	12% (1)	38% (3)	50% (4)	8
Statewide once a year inventory and assessment conducted by other organizations	0% (0)	0% (0)	12% (1)	38% (3)	50% (4)	8
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	12% (1)	38% (3)	50% (4)	8
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	12% (1)	0% (0)	25% (2)	25% (2)	38% (3)	8

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Regional or local year-round inventory and assessment conducted by other organizations	0% (0)	0% (0)	25% (2)	25% (2)	50% (4)	8
Regional or local once a year inventory and assessment conducted by other organizations	0% (0)	0% (0)	12% (1)	38% (3)	50% (4)	8
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	25% (2)	25% (2)	50% (4)	8
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	0% (0)	25% (2)	25% (2)	50% (4)	8
Total Respondents						64

27. Regional or local state agency HABITAT inventory and assessment for the Wildlife in Grassland Habitats in Indiana.

None:

Crawfish frog habitat is not well understood and is not currently being inventoried to my knowledge. Grasslands may be monitored by not all grasslands are crawfish frog habitat.

none

I believe that Purdue University and the NRCS and perhaps others keep track of grasslands created as part of the Farm Bill Programs. There are also occasional statewide assessments of grassland as part of remote-sensing, GIS based studies such as the GAP Analysis. The Division of Nature Preserves also keeps track of good examples of remnant native grassland. I am not sure any of these agencies collect the grassland habitat data specifically for badgers but other agencies applied the information to badgers.

Total Respondents 3

28. Regional or local HABITAT inventory and assessment by other organizations for the Wildlife in Grassland Habitats in Indiana.

None:

Crawfish frog habitat is not well understood and is not currently being inventoried to my knowledge. Grasslands may be monitored by not all grasslands are crawfish frog habitat.

None

None known

Total Respondents 3

29. Please list organizations that are monitoring this HABITAT for the Wildlife in Grassland Habitats in Indiana.

None:

Crawfish frog habitat is not well understood and is not currently being inventoried to my knowledge. Grasslands may be monitored by not all grasslands are crawfish frog habitat.

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none
None known

Total Respondents 3

30. What are the current HABITAT inventory and/or assessment techniques for the Wildlife in Grassland Habitats 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
GIS mapping	0% (0)	29% (2)	29% (2)	0% (0)	0% (0)	43% (3)	7
Aerial photography and analysis	0% (0)	29% (2)	14% (1)	0% (0)	0% (0)	57% (4)	7
Systematic sampling	0% (0)	0% (0)	29% (2)	0% (0)	0% (0)	71% (5)	7
Property tax estimates	0% (0)	0% (0)	14% (1)	0% (0)	0% (0)	86% (6)	7
State revenue data	0% (0)	0% (0)	14% (1)	0% (0)	0% (0)	86% (6)	7
Regulatory information	0% (0)	0% (0)	14% (1)	0% (0)	0% (0)	86% (6)	1
Participation in landuse programs	0% (0)	0% (0)	29% (2)	0% (0)	0% (0)	71% (5)	7
Modeling	0% (0)	0% (0)	29% (2)	0% (0)	14% (1)	57% (4)	7
Voluntary landowner reporting	0% (0)	0% (0)	14% (1)	0% (0)	0% (0)	86% (6)	7
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (5)	5
						Total Respondents	68

31. Other HABITAT inventory and assessment techniques for the Wildlife in Grassland Habitats in Indiana.

None known
none in place, and none needed

Total Respondents 2

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32. What one or two HABITAT inventory and assessment techniques would you recommend for effective conservation of the Wildlife in Grassland Habitats in Indiana?

Crawfish frog habitat may be described by a combination of hydrology, soil type, proximity to breeding waters, and vegetation. These factors should be investigated to develop a model for crawfish frog habitat.

Monitoring of the larger grasslands in Indiana both native and man-made such as the grassland created by stip-minning. Especially monitor the quality and quantity of these areas.

Total Respondents 2

33. What is the current body of science for the Wildlife in Grassland Habitats in Indiana?

		Response Total	Response Percent
Complete, up to date and extensive		0	0%
Adequate		1	12%
Inadequate		6	75%
Nonexistent		1	12%
Other (please explain below)		0	0%
Total Respondents		8	

34. Please provide a citation (title, author, date, publisher) that would give the best overview of the Wildlife in Grassland Habitats in Indiana, if available. This resource may be used if further detail is needed.

		Response Total	Response Percent
Title	Amphibians and reptiles of Indiana Mamm. IN	3	100%
Author	Mammals of the Eastern United States Sherman A. Minton, Jr. M & W 1982	3	100%
Date	J.O. Whitaker, Jr. and W. J. Hamilton, Jr 2001 1998	2	100%
Publisher	Indiana Academy of Sciences Cornell University Press	2	100%
Total Respondents		1	

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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 Grassland Habitats in Indiana. This resource may also be used if further detail is needed.

		Response Total	Response Percent
Title		0	0%
Author	www.natureserve.org/explorer www. natureserve.org/explorer	2	100%
Date		0	0%
Publisher		0	0%
Total Respondents		1	

36. What is the current HABITAT body of science for the Wildlife in Grassland Habitats in Indiana?

		Response Total	Response Percent
Complete, up to date and extensive		0	0%
Adequate		2	33%
Inadequate		3	50%
Nonexistent		1	17%
Other (please explain below)		0	0%
Total Respondents		6	

37. Please provide a citation (title, author, date, publisher) that would give the best HABITAT overview of the Wildlife in Grassland Habitats 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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38. If possible, please provide a second citation (title, author, date, publisher) that would give another good HABITAT overview of the Wildlife in Grassland Habitats 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

39. What are the research needs for the Wildlife in Grassland Habitats in Indiana?

	Urgently needed	Greatly needed	Needed	Slightly needed	Not needed	Unknown	Response Total	
Life cycle	0% (0)	12% (1)	38% (3)	12% (1)	38% (3)	0% (0)	8	
Distribution and abundance	0% (0)	25% (2)	25% (2)	12% (1)	38% (3)	0% (0)	8	
Limiting factors (food, shelter, water, breeding sites)	12% (1)	38% (3)	12% (1)	25% (2)	12% (1)	0% (0)	8	
Threats (predators/competition, contamination)	12% (1)	25% (2)	12% (1)	25% (2)	25% (2)	0% (0)	8	
Relationship/dependence on specific habitats	12% (1)	25% (2)	25% (2)	25% (2)	12% (1)	0% (0)	8	
Population health (genetic and physical)	14% (1)	0% (0)	29% (2)	14% (1)	29% (2)	14% (1)	7	
Other (please specify below)	0% (0)	20% (1)	0% (0)	0% (0)	20% (1)	60% (3)	5	
							Total Respondents	52

40. Other research needs for the Wildlife in Grassland Habitats in Indiana.

Some wildlife species are in great need of study on all aspects of its ecology.

We need more information on the reproduction of some wildlife species in various habitats.

The relationship between badgers and land use and soil type, especially soil types that support borrows both for the badger and its prey.

Total Respondents **3**

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41. What are the HABITAT research needs for the Wildlife in Grassland Habitats in Indiana?

	Urgently needed	Greatly needed	Needed	Slightly needed	Not needed	Unknown	Response Total
Successional changes	0% (0)	25% (2)	38% (3)	12% (1)	25% (2)	0% (0)	8
Distribution and abundance (fragmentation)	12% (1)	25% (2)	38% (3)	12% (1)	12% (1)	0% (0)	8
Threats (land use change/competition, contamination/global warming)	0% (0)	25% (2)	38% (3)	0% (0)	38% (3)	0% (0)	8
Relationship/dependence on specific site conditions	14% (1)	29% (2)	14% (1)	29% (2)	14% (1)	0% (0)	7
Growth and development of individual components of the habitat	0% (0)	14% (1)	14% (1)	29% (2)	43% (3)	0% (0)	7
Other (please specify below)	0% (0)	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3
							Total Respondents
							48

42. Other HABITAT research needs for the Wildlife in Grassland Habitats in Indiana.

Crawfish frog habitat needs to be adequately described.

Additional information on all phases of the biology of some wildlife species would be helpful. However, some species are in no current danger

The difference between native, warm-season-grass/native forb grasslands; planted, non-native, cool-season grasslands; and CRP grasslands relative to suitability for badgers.

Total Respondents **3**

43. How well do the following conservation efforts address the threats to the Wildlife in Grassland Habitats in Indiana?

	Very well	Somewhat	Not at all	Not used	Unknown	Response Total
Habitat protection (use below for details)	0% (0)	63% (5)	12% (1)	12% (1)	12% (1)	8
Population management (hunting, trapping)	25% (2)	12% (1)	0% (0)	63% (5)	0% (0)	8
Population enhancement (captive breeding and release)	0% (0)	0% (0)	25% (2)	75% (6)	0% (0)	8
Reintroduction (restoration)	0% (0)	0% (0)	25% (2)	75% (6)	0% (0)	8
Food plots	0% (0)	0% (0)	25% (2)	75% (6)	0% (0)	8
Threats reduction	0% (0)	0% (0)	0% (0)	71% (5)	29% (2)	7
Native predator control	0% (0)	0% (0)	29% (2)	71% (5)	0% (0)	7
Exotic/invasive species control	0% (0)	12% (1)	12% (1)	63% (5)	12% (1)	8
Regulation of collecting	0% (0)	43% (3)	29% (2)	14% (1)	14% (1)	7

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Disease/parasite management	0% (0)	0% (0)	0% (0)	100% (8)	0% (0)	8
Translocation to new geographic range	0% (0)	0% (0)	12% (1)	88% (7)	0% (0)	8
Protection of migration routes	0% (0)	0% (0)	12% (1)	88% (7)	0% (0)	8
Limiting contact with pollutants/contaminants	0% (0)	0% (0)	12% (1)	75% (6)	12% (1)	8
Public education to reduce human disturbance	0% (0)	0% (0)	12% (1)	75% (6)	12% (1)	8
Culling/selective removal	0% (0)	0% (0)	12% (1)	75% (6)	12% (1)	8
Stocking	0% (0)	0% (0)	12% (1)	88% (7)	0% (0)	8
Other (please specify below)	0% (0)	0% (0)	17% (1)	67% (4)	17% (1)	6
				Total Respondents		131

44. Other current conservation practices for the Wildlife in Grassland Habitats in Indiana.

Study burrow making crayfish and their burrows.

Saving grassland (and woodland) will help this animal.

Total Respondents 2

45. What one or two specific practices would you recommend for more effective conservation of the Wildlife in Grassland Habitats in Indiana?

1. Promote non-disturbance in known crawfish frog habitat.
2. Identification of breeding sites and protect the sites from disturbance and the introduction of fish.

Save natural habitats. n

Conservation and restoration of ground squirrel and pocket gopher populations. Limit human access to all parts of large grasslands.

Total Respondents 3

46. How well do the following conservation efforts address the HABITAT threats to the Wildlife in Grassland Habitats in Indiana?

	Very well	Somewhat	Not at all	Not used	Unknown	Response Total
Habitat protection through regulation	0% (0)	38% (3)	12% (1)	25% (2)	25% (2)	8
Habitat protection on public lands	12% (1)	63% (5)	12% (1)	0% (0)	12% (1)	8
Habitat protection incentives (financial)	0% (0)	25% (2)	25% (2)	0% (0)	50% (4)	8
Habitat restoration through regulation	0% (0)	25% (2)	38% (3)	12% (1)	25% (2)	8
Habitat restoration on public lands	0% (0)	50% (4)	12% (1)	0% (0)	38% (3)	8
Habitat restoration incentives (financial)	0% (0)	33% (2)	17% (1)	17% (1)	33% (2)	6
Artificial habitat creation (artificial reefs, nesting platforms)	0% (0)	0% (0)	12% (1)	75% (6)	12% (1)	8

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Selective use of functionally equivalent exotic species in place of extirpated natives	0% (0)	0% (0)	25% (2)	63% (5)	12% (1)	8
Succession control (fire, mowing)	12% (1)	63% (5)	0% (0)	0% (0)	12% (1)	7
Corridor development/protection	0% (0)	38% (3)	12% (1)	38% (3)	12% (1)	8
Managing water regimes	0% (0)	0% (0)	43% (3)	43% (3)	14% (1)	7
Pollution reduction	0% (0)	0% (0)	14% (1)	43% (3)	43% (3)	7
Protection of adjacent buffer zone	0% (0)	43% (3)	14% (1)	14% (1)	29% (2)	7
Restrict public access and disturbance	0% (0)	14% (1)	14% (1)	43% (3)	29% (2)	7
Land use planning	0% (0)	0% (0)	0% (0)	71% (5)	29% (2)	7
Technical assistance	0% (0)	0% (0)	14% (1)	29% (2)	57% (4)	7
Cooperative land management agreements (conservation easements)	0% (0)	29% (2)	14% (1)	14% (1)	43% (3)	7
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	100% (4)	4
						Total Respondents 131

47. Other current HABITAT conservation practices for the Wildlife in Grassland Habitats 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 Grassland Habitats in Indiana?

Public ownership (purchase) of know crawfish frog habitat and maintenance of the hydrology of the site and associated breeding waters.

Grassland often have to be maintained by fire. Control-burns are becoming more difficult to conduct due to lack of trained personnel, restricted burn windows, and encroaching development. Grassland management difficulties need to be addressed.

Total Respondents 2

49. Do you have any additional comments or information on the Wildlife in Grassland Habitats that you feel would be useful in the development of the Indiana Comprehensive Wildlife Strategy?

Some wildlife species are very under-studied. Research needs to be conducted and management information developed for public land managers and private land owners (education).

This is a common animal in grassy fields and also in woods. It is doing fine at present, so nothing is needed. Off the subject I wondered why you left off such species as the shrews *Sorex hoyi* and *S. fumeus*.

Total Respondents 2