

Appendix E-51: Farm Bill Programs

(overwintering habitats, nesting and staging sites)

Genetic pollution (hybridization)	0% (0)	0% (0)	0% (0)	0% (0)	67% (2)	33% (1)	3
Unknown	0% (0)	0% (0)	0% (0)	50% (1)	0% (0)	50% (1)	2
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	100% (2)	2
Total Respondents							31

8. Other threats to the Wildlife in Farm Bill Program Grassland Habitats in Indiana.

The impacts of herbicides and pesticides drifting over from nearby agricultural lands in unknown.

Mowing in June, July and August.

Total Respondents 2

9. Please briefly describe the top two threats to the Wildlife in Farm Bill Program Grassland Habitats in Indiana identified above.

1. The primary threat is the loss of these farm programs. An additional threat would be the loss or shortening of the primary nesting season dates established by the USDA. Mowing or haying during the quail nesting season would be allowed on enrolled acreage if these dates were eliminated or shortened.

2. Loss of Quality nesting and brood habitat. Habitat fragmentation.

Lack of large areas in native grass and mowing during the breeding season.

Total Respondents 3

10. Please rank the following threats to the HABITAT of the Wildlife in Farm Bill Program Grassland Habitats in Indiana.

	Critical threat	Serious threat	Somewhat of a threat	Slight threat	No threat	Unknown	Response Total
Commercial or residential development (sprawl)	33% (1)	33% (1)	0% (0)	33% (1)	0% (0)	0% (0)	3
Counterproductive financial incentives or regulations	33% (1)	33% (1)	0% (0)	0% (0)	33% (1)	0% (0)	3
Invasive/non-native species	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	0% (0)	3
Nonpoint source pollution (sedimentation and nutrients)	0% (0)	0% (0)	0% (0)	67% (2)	0% (0)	33% (1)	3
Habitat fragmentation	67% (2)	0% (0)	0% (0)	0% (0)	0% (0)	33% (1)	3
Successional change	33% (1)	67% (2)	0% (0)	0% (0)	0% (0)	0% (0)	3
Diseases (of plants that create habitat)	0% (0)	0% (0)	0% (0)	33% (1)	33% (1)	33% (1)	3
Habitat degradation	67% (2)	33% (1)	0% (0)	0% (0)	0% (0)	0% (0)	3
Climate change	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	3

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Stream channelization	0% (0)	0% (0)	0% (0)	0% (0)	100% (3)	0% (0)	3												
Impoundment of water/flow regulation	0% (0)	0% (0)	0% (0)	0% (0)	100% (3)	0% (0)	3												
Agricultural/forestry practices	67% (2)	0% (0)	0% (0)	0% (0)	0% (0)	33% (1)	3												
Residual contamination (persistent toxins)	0% (0)	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3												
Point source pollution (continuing)	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	3												
Mining/acidification	0% (0)	0% (0)	33% (1)	33% (1)	33% (1)	0% (0)	3												
Drainage practices (stormwater runoff)	0% (0)	0% (0)	0% (0)	0% (0)	100% (3)	0% (0)	3												
Unknown	0% (0)	0% (0)	0% (0)	50% (1)	0% (0)	50% (1)	2												
Other (please specify below)	50% (1)	0% (0)	0% (0)	0% (0)	0% (0)	50% (1)	2												
Total Respondents							52												

11. Other HABITAT threats to the Wildlife in Farm Bill Program Grassland Habitats in Indiana.

If the farm bill programs (e.g. CRP) were to be eliminated the negative effects on Indiana's northern bobwhite population would be substantial.

Total Respondents 1

12. Please briefly describe the top two HABITAT threats to the Wildlife in Farm Bill Program Grassland Habitats in Indiana identified above.

1. Succession of the grassland habitat is a major threat if mid-contract activities are not performed. Another threat is mowing or haying during the primary nesting season. These activities are not currently allowed until after July 15 but mowing during late July and early August still destroys some nests and young.

2. Habitat Fragmentation & Urban sprawl. Clean Farming.

Loss of large areas of warm season grasses and early mowing/haying.

Total Respondents 3

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13. What current monitoring efforts by state agencies are you aware of for the Wildlife in Farm Bill Program Grassland Habitats 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% (3)	3
Statewide once a year monitoring conducted by state agencies	100% (3)	0% (0)	3
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by state agencies	67% (2)	33% (1)	3
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by state agencies	33% (1)	67% (2)	3
Regional or local year-round monitoring conducted by state agencies	33% (1)	67% (2)	3
Regional or local once a year monitoring conducted by state agencies	67% (2)	33% (1)	3
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by state agencies	33% (1)	67% (2)	3
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by state agencies	0% (0)	100% (2)	2
		Total Respondents	23

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14. What current monitoring efforts by other organizations are you aware of for the Wildlife in Farm Bill Program 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% (3)	3
Statewide once a year monitoring conducted by other organizations	67% (2)	33% (1)	3
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by other organizations	33% (1)	67% (2)	3
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by other organizations	33% (1)	67% (2)	3
Regional or local year-round monitoring conducted by other organizations	0% (0)	100% (3)	3
Regional or local once a year monitoring conducted by other organizations	33% (1)	67% (2)	3
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by other organizations	33% (1)	67% (2)	3
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by other organizations	33% (1)	67% (2)	3
	Total Respondents		24

15. How crucial are these monitoring efforts by state agencies for the conservation of the Wildlife in Farm Bill Program Grassland Habitats 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)	33% (1)	67% (2)	0% (0)	3
Statewide once a year monitoring conducted by state agencies	100% (3)	0% (0)	0% (0)	0% (0)	0% (0)	3
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	67% (2)	0% (0)	0% (0)	33% (1)	3
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by state agencies	0% (0)	0% (0)	33% (1)	33% (1)	33% (1)	3
Regional or local year-round monitoring conducted by state agencies	0% (0)	0% (0)	0% (0)	67% (2)	33% (1)	3
Regional or local once a year monitoring conducted by state agencies	0% (0)	33% (1)	33% (1)	33% (1)	0% (0)	3
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by state agencies	0% (0)	33% (1)	0% (0)	33% (1)	33% (1)	3
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by state agencies	0% (0)	0% (0)	33% (1)	33% (1)	33% (1)	3

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Total Respondents 24

16. How crucial are these monitoring efforts by other organizations for the conservation of the Wildlife in Farm Bill Program Grassland Habitats 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)	67% (2)	33% (1)	3
Statewide once a year monitoring conducted by other organizations	33% (1)	33% (1)	0% (0)	0% (0)	33% (1)	3
Periodic statewide (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	33% (1)	0% (0)	33% (1)	33% (1)	3
Occasional statewide (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	33% (1)	0% (0)	33% (1)	33% (1)	3
Regional or local year-round monitoring conducted by other organizations	0% (0)	0% (0)	0% (0)	67% (2)	33% (1)	3
Regional or local once a year monitoring conducted by other organizations	0% (0)	33% (1)	0% (0)	33% (1)	33% (1)	3
Periodic regional or local (less than once a year but still regularly scheduled) monitoring conducted by other organizations	0% (0)	33% (1)	0% (0)	33% (1)	33% (1)	3
Occasional regional or local (less than once a year and not regularly scheduled) monitoring conducted by other organizations	0% (0)	33% (1)	0% (0)	33% (1)	33% (1)	3
				Total Respondents		24

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

1. The Indiana Division of Fish and Wildlife conducts a biennial mailing survey to small game hunters to estimate harvest. Additionally, the division conducts an annual spring whistle counts to provide an index to the spring breeding population. However, neither of these methods focus directly on farm bill habitats.

2. Interlake Property, Division of Outdoor Recreation ownership.

Surveys on state properties, and thru efforts such as the Breeding Bird Atlas projects

Total Respondents 3

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

The breeding bird survey is conducted by the National Audubon Society and observers counts the number of bobwhites

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seen along with other bird species. Again this survey is not directly focuses on farm bill habitats.

BBS routes and work done on Strip mine lands in SW IN, and Big Oaks NWR

Total Respondents 2

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

I am only aware of the breeding bird survey conducted by the National Audubon Society.

INDNR, USFWS, TNC, USFS, Indiana State University

Total Respondents 2

20. What are the current monitoring techniques for the Wildlife in Farm Bill Program 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)	33% (1)	33% (1)	33% (1)	0% (0)	3
Modeling	33% (1)	0% (0)	0% (0)	33% (1)	0% (0)	33% (1)	3
Coverboard routes	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	3
Spot mapping	33% (1)	0% (0)	33% (1)	0% (0)	33% (1)	0% (0)	3
Driving a survey route	67% (2)	0% (0)	33% (1)	0% (0)	0% (0)	0% (0)	3
Reporting from harvest, depredation, or unintentional take (road kill, bycatch)	33% (1)	33% (1)	0% (0)	33% (1)	0% (0)	0% (0)	3
Mark and recapture	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	0% (0)	3
Professional survey/census	67% (2)	33% (1)	0% (0)	0% (0)	0% (0)	0% (0)	3
Volunteer survey/census	33% (1)	0% (0)	33% (1)	0% (0)	0% (0)	33% (1)	3
Trapping (by any technique)	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	0% (0)	3
Representative sites	0% (0)	50% (1)	0% (0)	0% (0)	0% (0)	50% (1)	2
Probabilistic sites	0% (0)	50% (1)	0% (0)	0% (0)	0% (0)	50% (1)	2

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Other (please specify below)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	1
Total Respondents								35

21.	Other monitoring techniques for the Wildlife in Farm Bill Program Grassland Habitats in Indiana.	
I'm not aware of any bobwhite monitoring that focuses directly on populations in farm bill habitats.		
Nest monitoring		
Total Respondents		2

22.	What one or two monitoring techniques would you recommend for effective conservation of the Wildlife in Farm Bill Program Grassland Habitats in Indiana?	
To monitor bobwhite populations specifically in farm bill habitats I would suggest selecting a random sample of contracts and conducting flushing transects. Another intensive method would be to have hunters complete "report cards" when hunting on farm bill acreage. A less intensive method would be to request that landowners conduct whistle counts on their enrolled lands each spring.		
Fall Covey counts.		
Professional and Volunteer survey and census		
Total Respondents		3

23.	What current HABITAT inventory and assessment efforts or activities by state agencies are you aware of for the Wildlife in Farm Bill Program Grassland Habitats 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% (3)	3
	Statewide once a year inventory and assessment conducted by state agencies	0% (0)	100% (3)	3
	Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	33% (1)	67% (2)	3
	Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	100% (3)	0% (0)	3
	Regional or local year-round inventory and assessment conducted by state agencies	0% (0)	100% (3)	3
	Regional or local once a year inventory and assessment conducted by state agencies	33% (1)	67% (2)	3
	Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	33% (1)	67% (2)	3
	Occasional regional or local (less than once a year and not			

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regularly scheduled) inventory and assessment conducted by state agencies

Total Respondents 24

24. What current HABITAT inventory and assessment efforts or activities by other organizations are you aware of for the Wildlife in Farm Bill Program 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	33% (1)	67% (2)	3
Statewide once a year inventory and assessment conducted by other organizations	67% (2)	33% (1)	3
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	33% (1)	67% (2)	3
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	33% (1)	67% (2)	3
Regional or local year-round inventory and assessment conducted by other organizations	0% (0)	100% (3)	3
Regional or local once a year inventory and assessment conducted by other organizations	33% (1)	67% (2)	3
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	33% (1)	67% (2)	3
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	33% (1)	67% (2)	3
			Total Respondents 24

25. How crucial are these HABITAT efforts by state agencies for the conservation of the Wildlife in Farm Bill Program 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 agencies	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	3
Statewide once a year inventory and assessment conducted by state agencies	33% (1)	0% (0)	0% (0)	0% (0)	67% (2)	3
Periodic statewide (less than once a year but still regularly scheduled)	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3

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inventory and assessment conducted by state agencies							
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	0% (0)	50% (1)	0% (0)	50% (1)		2
Regional or local year-round inventory and assessment conducted by state agencies	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)		3
Regional or local once a year inventory and assessment conducted by state agencies	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)		3
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)		3
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by state agencies	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)		3
						Total Respondents	23

26.	How crucial are these HABITAT efforts by other organizations for the conservation of the Wildlife in Farm Bill Program 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)	67% (2)	0% (0)	0% (0)	33% (1)	3
Statewide once a year inventory and assessment conducted by other organizations	0% (0)	67% (2)	0% (0)	0% (0)	33% (1)	3
Periodic statewide (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3
Occasional statewide (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3
Regional or local year-round inventory and assessment conducted by other organizations	0% (0)	0% (0)	0% (0)	33% (1)	67% (2)	3
Regional or local once a year inventory and assessment conducted by other	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3

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organizations							
Periodic regional or local (less than once a year but still regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3	
Occasional regional or local (less than once a year and not regularly scheduled) inventory and assessment conducted by other organizations	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3	
						Total Respondents	24

27.	Regional or local state agency HABITAT inventory and assessment for the Wildlife in Farm Bill Program Grassland Habitats in Indiana.
<ol style="list-style-type: none"> 1. I'm not aware of any regularly scheduled assessment of farm bill lands for northern bobwhites. 2. Interlake Property <p>Habitats on State areas are occasionally surveyed for quality and quantity.</p>	
Total Respondents	
3	

28.	Regional or local HABITAT inventory and assessment by other organizations for the Wildlife in Farm Bill Program Grassland Habitats in Indiana.
<ol style="list-style-type: none"> 1. The Farm Service Agency keeps track of the location and acreage associated with each contract. 2. Unknown 3. USFWS, USFWS, TNC, Indiana State University have surveyed quality and quantity of habitats for HESP's. 	
Total Respondents	
3	

29.	Please list organizations that are monitoring this HABITAT for the Wildlife in Farm Bill Program Grassland Habitats in Indiana.
<ol style="list-style-type: none"> 1. The Indiana Division of Fish and Wildlife will be initiated some type of bobwhite monitoring program to determine the success of the newest continuous CRP practice (CP33). The Farm Service Agency monitors acreage and location of tracts enrolled in each USDA program. The Natural Resource Conservation Service provides technical support or administers most farm programs and I believe they conduct regular inspections. 2. Unknown 3. INDNR, USDA, USFS, TNC, Indiana State University 	
Total Respondents	
3	

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30. What are the current monitoring techniques for the Wildlife in Farm Bill Program Grassland Habitats in Indiana.
 If a technique is not applicable to the Wildlife in Farm Bill Program Grassland Habitats 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	33% (1)	0% (0)	33% (1)	0% (0)	0% (0)	33% (1)	3
Aerial photography and analysis	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	0% (0)	3
Systematic sampling	0% (0)	0% (0)	50% (1)	0% (0)	0% (0)	50% (1)	2
Property tax estimates	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	3
State revenue data	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	3
Regulatory information	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	67% (2)	3
Participation in landuse programs	33% (1)	0% (0)	0% (0)	0% (0)	0% (0)	67% (2)	3
Modeling	0% (0)	67% (2)	0% (0)	0% (0)	0% (0)	33% (1)	3
Voluntary landowner reporting	0% (0)	33% (1)	33% (1)	0% (0)	0% (0)	33% (1)	3
Other (please specify below)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1
Total Respondents							27

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

I recently correlated the number of acres enrolled in USDA programs with our annual bobwhite whistle indices on a statewide scale. I am planning on modeling regional bobwhite indices and USDA idled acreage.

Total Respondents 1

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

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1. Flush counts or more intensive whistle counts on farm program lands would be a useful method of evaluating their quality when compared to the same indices on non-farmbill lands.
2. Grassland mapping by major plant species type.
3. GIS mapping and participation in landuse programs (CRP)

Total Respondents 3

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

		Response Total	Response Percent
Complete, up to date and extensive		0	0%
Adequate		1	33%
Inadequate		1	33%
Nonexistent		1	33%
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 Farm Bill Program Grassland Habitats in Indiana, if available. This resource may be used if further detail is needed.

		Response Total	Response Percent
Title	HESPS in mine land MS Thesis	1	0%
Author	Travis Devault	1	0%
Date	2000	1	0%
Publisher	Indiana State Univ	1	0%
Total Respondents		1	
(skipped this question)			2

35. If possible, please provide a second citation (title, author, date, publisher) that would give another good overview of the Wildlife in Farm Bill Program Grassland Habitats in Indiana. This resource may also be used if further detail is needed.

		Response Total	Response Percent
Title	Forest and Grassland Bird Productivity	1	0%
Author	Robb et. al.	1	0%
Date	1998	1	0%
Publisher	USFWS internal report	1	0%

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Total Respondents 1

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

		Response Total	Response Percent
Complete, up to date and extensive		0	0%
Adequate		1	33%
Inadequate		2	67%
Nonexistent		0	0%
Other (please explain below)		0	0%
Total Respondents		3	

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

		Response Total	Response Percent
Title	Vegetation management practices on conservation reserve program fields to improve northern bobwhite habitat quality	1	100%
Author	Strip mine grassland birds Greenfield, K. C.; W. B. Burger Jr.; M. J. Chamberlain, E. W. Kurzejeski	1	100%
Date	Travis Devault 2002	1	100%
Publisher	2000 Wildlife Society Bulletin Indiana State Univ.	1	100%
Total Respondents		1	

38. If possible, please provide a second citation (title, author, date, publisher) that would give another good HABITAT overview of the Wildlife in Farm Bill Program 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%

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Publisher	0	0%
	Total Respondents	0

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

	Urgently needed	Greatly needed	Needed	Slightly needed	Not needed	Unknown	Response Total
Life cycle	0% (0)	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	3
Distribution and abundance	0% (0)	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	3
Limiting factors (food, shelter, water, breeding sites)	67% (2)	0% (0)	33% (1)	0% (0)	0% (0)	0% (0)	3
Threats (predators/competition, contamination)	67% (2)	0% (0)	33% (1)	0% (0)	0% (0)	0% (0)	3
Relationship/dependence on specific habitats	67% (2)	33% (1)	0% (0)	0% (0)	0% (0)	0% (0)	3
Population health (genetic and physical)	0% (0)	33% (1)	67% (2)	0% (0)	0% (0)	0% (0)	3
Other (please specify below)	0% (0)	100% (1)	0% (0)	0% (0)	0% (0)	0% (0)	1
	Total Respondents						19

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

1. I would like to see some research to determine the extent to which mowing and haying negatively impact production following the end of the primary nesting season (as defined by the USDA). Following July 15 in Indiana landowners can mow or hay there enrolled lands. I believe a substantial proportion of bobwhites are still nesting at that time.
2. How to reduce clean farming and increasing field size.

Total Respondents 2

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

	Urgently needed	Greatly needed	Needed	Slightly needed	Not needed	Unknown	Response Total
Successional changes	0% (0)	100% (3)	0% (0)	0% (0)	0% (0)	0% (0)	3
Distribution and abundance (fragmentation)	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	0% (0)	3
Threats (land use change/competition, contamination/global warming)	67% (2)	0% (0)	0% (0)	0% (0)	33% (1)	0% (0)	3
Relationship/dependence on specific site conditions	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	0% (0)	3
Growth and development of							

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individual components of the habitat

Other (please specify below)	0% (0)	50% (1)	0% (0)	0% (0)	0% (0)	50% (1)	2
Total Respondents							17

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

1. Seeding mixtures and mid-contract management activities currently utilized on farm bill lands need to be evaluated to determine their value to bobwhite nesting and brood rearing.

2. How to create and maintain quality grassland habitat on a permanent basis.

Total Respondents 2

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

	Very well	Somewhat	Not at all	Not used	Unknown	Response Total
Habitat protection (use below for details)	33% (1)	67% (2)	0% (0)	0% (0)	0% (0)	3
Population management (hunting, trapping)	0% (0)	0% (0)	67% (2)	0% (0)	33% (1)	3
Population enhancement (captive breeding and release)	0% (0)	0% (0)	33% (1)	67% (2)	0% (0)	3
Reintroduction (restoration)	0% (0)	0% (0)	33% (1)	67% (2)	0% (0)	3
Food plots	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	3
Threats reduction	0% (0)	33% (1)	0% (0)	0% (0)	67% (2)	3
Native predator control	0% (0)	33% (1)	0% (0)	67% (2)	0% (0)	3
Exotic/invasive species control	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	3
Regulation of collecting	0% (0)	0% (0)	67% (2)	0% (0)	33% (1)	3
Disease/parasite management	0% (0)	0% (0)	67% (2)	33% (1)	0% (0)	3
Translocation to new geographic range	0% (0)	0% (0)	67% (2)	33% (1)	0% (0)	3
Protection of migration routes	33% (1)	0% (0)	33% (1)	33% (1)	0% (0)	3
Limiting contact with pollutants/contaminants	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	3
Public education to reduce human disturbance	33% (1)	33% (1)	0% (0)	0% (0)	33% (1)	3
Culling/selective removal	0% (0)	0% (0)	33% (1)	67% (2)	0% (0)	3
Stocking	0% (0)	0% (0)	67% (2)	33% (1)	0% (0)	3
Other (please specify below)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0
Total Respondents						48

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

No responses were entered for this question.

Total Respondents 0

(skipped this question) 2

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

1. I would require mid-contract management (e.g. disking or burning) between 3-5 years after establishment on all farm bill acreage planted to grasses.

2. Permanant protection of grassland habitat.

3. Protection of habitat and restoration of habitat

Total Respondents 3

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

	Very well	Somewhat	Not at all	Not used	Unknown	Response Total
Habitat protection through regulation	0% (0)	67% (2)	0% (0)	0% (0)	33% (1)	3
Habitat protection on public lands	33% (1)	0% (0)	33% (1)	33% (1)	0% (0)	3
Habitat protection incentives (financial)	0% (0)	100% (3)	0% (0)	0% (0)	0% (0)	3
Habitat restoration through regulation	0% (0)	67% (2)	33% (1)	0% (0)	0% (0)	3
Habitat restoration on public lands	33% (1)	0% (0)	67% (2)	0% (0)	0% (0)	3
Habitat restoration incentives (financial)	67% (2)	33% (1)	0% (0)	0% (0)	0% (0)	3
Artificial habitat creation (artificial reefs, nesting platforms)	0% (0)	33% (1)	67% (2)	0% (0)	0% (0)	3
Selective use of functionally equivalent exotic species in place of extirpated natives	0% (0)	33% (1)	0% (0)	67% (2)	0% (0)	3
Succession control (fire, mowing)	33% (1)	67% (2)	0% (0)	0% (0)	0% (0)	3
Corridor development/protection	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	3
Managing water regimes	0% (0)	0% (0)	33% (1)	33% (1)	33% (1)	3
Pollution reduction	0% (0)	33% (1)	33% (1)	0% (0)	33% (1)	3
Protection of adjacent buffer zone	0% (0)	100% (2)	0% (0)	0% (0)	0% (0)	2
Restrict public access and disturbance	33% (1)	33% (1)	33% (1)	0% (0)	0% (0)	3
Land use planning	33% (1)	0% (0)	67% (2)	0% (0)	0% (0)	3
Technical assistance	0% (0)	100% (3)	0% (0)	0% (0)	0% (0)	3

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Cooperative land management agreements (conservation easements)	67% (2)	33% (1)	0% (0)	0% (0)	0% (0)	3
Other (please specify below)	50% (1)	0% (0)	0% (0)	0% (0)	50% (1)	2
Total Respondents						52

47. Other current HABITAT conservation practices for the Wildlife in Farm Bill Program Grassland Habitats in Indiana.

preventing the early mowing/haying of CRP land or other habitat

Total Respondents 1

48. What one or two specific HABITAT practices would you recommend for more effective conservation of the Wildlife in Farm Bill Program Grassland Habitats in Indiana?

Making mid-contract management mandatory on enrolled acreage.

Protection/restoration of habitat and preventing early mowing/haying

Total Respondents 2

(skipped this question) 1

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

1. A substantial proportion of Indiana's non-farm program early successional habitat has been lost over the last 30 years and the farm bill grasslands now constitute a substantial proportion of the bobwhites habitat in the state.

2. I think we know what needs to be completed but the question is how to get the Private landownership to practice what is needed on a large scale.

3. CRP has been beneficial for HESP's in Indiana. We need to continue to encourage incentives to private landowners to keep land in grassland habitat that is beneficial to HESP's.

Total Respondents 3