

Survey About Threats and Conservation Needs for Fish and Wildlife Habitats in Indiana

Summary of Results – Drift Plains (Region 6)

DNR

Indiana Department
of Natural Resources



INDIANA DIVISION OF
FISH & WILDLIFE

PURDUE
UNIVERSITY



FORESTRY
AND
NATURAL
RESOURCES

Section III: Threats to Fish and Wildlife Habitats

11. How would you describe the **overall quality** of fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6)? (Check only one)

	Very Poor		Poor		Satisfactory		Good		Very good		I don't know		Total Responses
	%	N	%	N	%	N	%	N	%	N	%	N	
Aquatic systems	0.0	0	8.3	1	25.0	3	50.0	6	16.7	2	0.0	0	12
Agricultural lands	10.0	1	50.0	5	30.0	3	10.0	1	0.0	0	0.0	0	10
Barren lands	0.0	0	50.0	1	50.0	1	0.0	0	0.0	0	0.0	0	2
Developed Lands	0.0	0	100.0	1	0.0	0	0.0	0	0.0	0	0.0	0	1
Forests	4.0	1	16.0	4	52.0	13	20.0	5	8.0	2	0.0	0	25
Grasslands	9.1	1	81.8	9	9.1	1	0.0	0	0.0	0	0.0	0	11
Subterranean systems	0.0	0	0.0	0	50.0	1	50.0	1	0.0	0	0.0	0	2
Wetlands	0.0	0	27.3	3	63.6	7	9.1	1	0.0	0	0.0	0	11
Total	4.1	3	32.4	24	39.2	29	18.9	14	5.4	4	0.0	0	74

12. How would you describe the total amount and overall quality of fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6) since 2005? (Check one for each line item)

Amount of fish and wildlife habitats within HABITAT since 2005

	Increase		About the same		Decrease		I don't know		Total Responses
	%	N	%	N	%	N	%	N	
Aquatic systems	16.7	2	75.0	9	8.3	1	0.0	0	12
Agricultural lands	0.0	0	40.0	4	60.0	6	0.0	0	10
Barren lands	0.0	0	100.0	2	0.0	0	0.0	0	2
Developed Lands	0.0	0	0.0	0	100.0	1	0.0	0	1
Forests	20.0	5	56.0	14	16.0	4	8.0	2	25
Grasslands	27.3	3	27.3	3	45.5	5	0.0	0	11
Subterranean systems	0.0	0	100.0	2	0.0	0	0.0	0	2
Wetlands	27.3	3	63.6	7	9.1	1	0.0	0	11
Total	17.6	13	55.4	41	24.3	18	2.7	2	74

Quality of fish and wildlife habitats within HABITAT since 2005

	Increase		About the same		Decrease		I don't know		Total Responses
	%	N	%	N	%	N	%	N	
Aquatic systems	25.0	3	66.7	8	8.3	1	0.0	0	12
Agricultural lands	0.0	0	60.0	6	40.0	4	0.0	0	10
Barren lands	0.0	0	100.0	2	0.0	0	0.0	0	2
Developed Lands	0.0	0	0.0	0	100.0	1	0.0	0	1
Forests	12.0	3	56.0	14	20.0	5	12.0	3	25
Grasslands	27.3	3	36.4	4	36.4	4	0.0	0	11
Subterranean systems	0.0	0	100.0	2	0.0	0	0.0	0	2
Wetlands	10.0	1	80.0	8	10.0	1	0.0	0	10
Total	13.7	10	60.3	44	21.9	16	4.1	3	73

13. How would you predict about the total amount and overall quality of fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6) over the next 10 years? (Check one for each line item)

Amount of fish and wildlife habitats within HABITAT over the next 10 years

	Increase		About the same		Decrease		I don't know		Total Responses
	N		N		N		N		
Aquatic systems	8.3	1	66.7	8	25.0	3	0.0	0	12
Agricultural lands	0.0	0	30.0	3	70.0	7	0.0	0	10
Barren lands	0.0	0	50.0	1	50.0	1	0.0	0	2
Developed Lands	0.0	0	0.0	0	100.0	1	0.0	0	1
Forests	16.0	4	52.0	13	32.0	8	0.0	0	25
Grasslands	27.3	3	27.3	3	45.5	5	0.0	0	11
Subterranean systems	0.0	0	50.0	1	0.0	0	50.0	1	2
Wetlands	9.1	1	81.8	9	9.1	1	0.0	0	11
Total	12.2	9	51.4	38	35.1	26	1.4	1	74

Quality of fish and wildlife habitats within HABITAT over the next 10 years

<i>Drift Plains (Region 6)</i>	Increase		About the same		Decrease		I don't know		Total Responses
	N		N		N		N		
Aquatic systems	8.3	1	66.7	8	25.0	3	0.0	0	12
Agricultural lands	0.0	0	40.0	4	60.0	6	0.0	0	10
Barren lands	0.0	0	100.0	2	0.0	0	0.0	0	2
Developed Lands	0.0	0	0.0	0	100.0	1	0.0	0	1
Forests	8.0	2	48.0	12	40.0	10	4.0	1	25
Grasslands	27.3	3	36.4	4	36.4	4	0.0	0	11
Subterranean systems	0.0	0	50.0	1	0.0	0	50.0	1	2
Wetlands	9.1	1	72.7	8	18.2	2	0.0	0	11
Total	9.5	7	52.7	39	35.1	26	2.7	2	74

14. **Currently**, to what extent do you think the following general categories of threats **apply** to fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6)? (Check one for each line item)

<i>Drift Plains (Region 6)</i>	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses
	N		N		N		N		N		
Residential and commercial development	35.6	26	47.9	35	16.4	12	0.0	0	0.0	0	73
Agriculture and aquaculture	42.5	31	45.2	33	12.3	9	0.0	0	0.0	0	73
Energy production and mining	13.7	10	16.4	12	49.3	36	11.0	8	9.6	7	73
Transportation and service corridors	13.7	10	23.3	17	52.1	38	6.8	5	4.1	3	73
Biological resource use	11.1	8	20.8	15	38.9	28	20.8	15	8.3	6	72
Human intrusion and disturbance	29.2	21	33.3	24	26.4	19	4.2	3	6.9	5	72
Natural systems modifications	23.6	17	38.9	28	26.4	19	9.7	7	1.4	1	72
Invasives and other problematic species and genes	47.2	34	19.4	14	26.4	19	2.8	2	4.2	3	72
Pollution	15.1	11	39.7	29	38.4	28	1.4	1	5.5	4	73
Climate change and severe weather	19.2	14	19.2	14	27.4	20	28.8	21	5.5	4	73
Other stressors	18.8	13	21.7	15	33.3	23	5.8	4	20.3	14	69

15. You indicated a number of general categories as significant or moderate threats to fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6). Please indicate which of the following are specific threats to fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6) and their trends over the next 10 years. You may add additional threats you think are important using the “Other, please specify” option.

Residential and Commercial Development

Drift Plains (Region 6)	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?											How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses	
	N		N		N		N		N			N		N		N		N			
Housing and urban areas	45.8	27	47.5	28	3.4	2	3.4	2	.0	0	59	77.4	41	20.8	11	0.0	0	1.9	1	53	
Commercial and industrial areas	33.9	20	50.8	30	11.9	7	3.4	2	0.0	0	59	67.3	35	30.8	16	0.0	0	1.9	1	52	
Tourism and recreation areas (e.g., sites with a substantial footprint – golf courses, campgrounds, etc.)	6.9	4	27.6	16	58.6	34	5.2	3	1.7	1	58	50.0	26	44.2	23	1.9	1	3.8	2	52	

Other responses listed:

Response text:

N

Total responses:

0

Agriculture and Aquaculture

Drift Plains (Region 6)	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?											How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses	
	N		N		N		N		N			N		N		N		N			
Annual and perennial nontimber crops	32.3	20	35.5	22	22.6	14	3.2	2	6.5	4	62	52.6	30	38.6	22	0.0	0	8.8	5	57	
Wood and pulp plantations	6.6	4	19.7	12	39.3	24	18.0	11	16.4	10	61	17.9	10	64.3	36	0.0	0	17.9	10	56	
Livestock farming and ranching	11.3	7	50.0	31	24.2	15	8.1	5	6.5	4	62	33.3	19	56.1	32	0.0	0	10.5	6	57	
Aquaculture	1.8	1	15.8	9	19.3	11	28.1	16	35.1	20	57	6.0	3	54.0	27	0.0	0	40.0	20	50	
Conversion of habitat to annual crops	61.3	38	27.4	17	4.8	3	3.2	2	3.2	2	62	87.5	49	8.9	5	0.0	0	3.6	2	56	

Other responses listed:

Response text:

N

Total responses:

0

Energy Production and Mining

Drift Plains (Region 6)	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N		N		N		N		N			N		N		N		N		
Oil and gas drilling	42.9	9	28.6	6	14.3	3	14.3	3	0.0	0	21	68.4	13	31.6	6	0.0	0	0.0	0	19
Mining and quarrying	38.1	8	38.1	8	9.5	2	14.3	3	0.0	0	21	68.4	13	31.6	6	0.0	0	0.0	0	19
Renewable energy production	14.3	3	33.3	7	28.6	6	23.8	5	0.0	0	21	41.2	7	58.8	10	0.0	0	0.0	0	17
Fossil fuel energy production	36.4	8	45.5	10	13.6	3	4.5	1	0.0	0	22	63.2	12	36.8	7	0.0	0	0.0	0	19
Shale gas development (e.g., fracking)	40.9	9	31.8	7	18.2	4	9.1	2	0.0	0	22	68.4	13	31.6	6	0.0	0	0.0	0	19

Other responses listed:

Response text:

N

Total responses:

0

Transportation and Service Corridors

Drift Plains (Region 6)	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N		N		N		N		N			N		N		N		N		
Roads and railroads	38.5	10	53.8	14	3.8	1	3.8	1	0.0	0	26	69.6	16	30.4	7	0.0	0	0.0	0	23
Utility and service lines	12.0	3	48.0	12	32.0	8	4.0	1	4.0	1	25	36.4	8	63.6	14	0.0	0	0.0	0	22
Flight paths	11.5	3	15.4	4	26.9	7	30.8	8	15.4	4	26	38.1	8	47.6	10	0.0	0	14.3	3	21
Shipping lanes	24.0	6	16.0	4	0.0	0	40.0	10	20.0	5	25	36.4	8	45.5	10	0.0	0	18.2	4	22

Other responses listed:

Response text:

N

Total responses:

0

Biological Resource Use

<i>Drift Plains (Region 6)</i>	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N		N		N		N		N			N		N		N		N		
Forestry practices (e.g., silvicultural methods leading to the lack of early successional habitat)	47.8	11	26.1	6	13.0	3	13.0	3	0.0	0	23	63.2	12	36.8	7	0.0	0	0.0	0	19

Other responses listed:

Response text:

N

Total responses:

0

Human Intrusion and Disturbance

<i>Drift Plains (Region 6)</i>	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N		N		N		N		N			N		N		N		N		
Recreation activities (e.g., ATVs, trail use, horseback riding, high-speed boating, canoeing)	25.6	11	53.5	23	20.9	9	0.0	0	0.0	0	43	80.0	32	20.0	8	0.0	0	0.0	0	40

Other responses listed:

Response text:

N

Drug use or manufacturing

1

Total responses:

1

Natural Systems Modification

<i>Drift Plains (Region 6)</i>	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N	N	N	N	N	N	N	N	N	N		N	N	N	N	N	N	N	N	
Dams and water management/use	9.1	4	36.4	16	34.1	15	9.1	4	11.4	5	44	26.3	10	63.2	24	0.0	0	10.5	4	38
Fire and fire suppression	11.4	5	38.6	17	22.7	10	20.5	9	6.8	3	44	17.9	7	74.4	29	0.0	0	7.7	3	39
Log jam removal	6.8	3	31.8	14	22.7	10	25.0	11	13.6	6	44	19.4	7	63.9	23	2.8	1	13.9	5	36
Over-mowing of natural areas	25.0	11	31.8	14	29.5	13	2.3	1	11.4	5	44	41.5	17	43.9	18	0.0	0	14.6	6	41
Conversion of natural habitats to other land uses	55.8	24	34.9	15	9.3	4	0.0	0	0.0	0	43	78.0	32	22.0	9	0.0	0	0.0	0	41

Other responses listed:

Response text: N

Total responses: 0

Invasives and Other Problematic Species/Genes

<i>Drift Plains (Region 6)</i>	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N	N	N	N	N	N	N	N	N	N		N	N	N	N	N	N	N	N	
Invasive/alien species	71.7	33	26.1	12	0.0	0	0.0	0	2.2	1	46	90.2	37	7.3	3	.0	0	2.4	1	41
Problematic native species (e.g. overabundant native deer or algae)	29.8	14	40.4	19	19.1	9	8.5	4	2.1	1	47	47.6	20	42.9	18	0.0	0	9.5	4	42
Plant diseases	27.7	13	40.4	19	19.1	9	6.4	3	6.4	3	47	60.5	26	27.9	12	.0	0	11.6	5	43
Introduced genetic material (such as crop, seed stock, biocontrol, stocked/released species, etc.)	13.0	6	26.1	12	34.8	16	6.5	3	19.6	9	46	42.5	17	40.0	16	0.0	0	17.5	7	40

Other responses listed:

Response text: N

Total responses: 0

Pollution

Drift Plains (Region 6)	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N	N	N	N	N	N	N	N	N	N		N	N	N	N	N	N	N	N	
Runoff from roads/service corridors	51.3	20	28.2	11	20.5	8	0.0	0	0.0	0	39	66.7	22	33.3	11	0.0	0	0.0	0	33
Chemical spills	23.7	9	39.5	15	34.2	13	2.6	1	0.0	0	38	41.2	14	58.8	20	.0	0	0.0	0	34
Point source pollution from commercial/industrial sources	28.2	11	46.2	18	25.6	10	.0	0	.0	0	39	50.0	17	50.0	17	0.0	0	0.0	0	34
Air pollution (e.g., smoke, mercury emissions)	23.1	9	30.8	12	38.5	15	7.7	3	0.0	0	39	47.1	16	47.1	16	5.9	2	0.0	0	34
Household sewage and urban water waste	30.8	12	35.9	14	33.3	13	0.0	0	0.0	0	39	55.9	19	41.2	14	2.9	1	0.0	0	34
Agriculture, residential, and forestry effluents	41.0	16	41.0	16	15.4	6	2.6	1	0.0	0	39	64.7	22	32.4	11	2.9	1	0.0	0	34
Garbage and solid waste	28.2	11	30.8	12	35.9	14	5.1	2	0.0	0	39	67.6	23	29.4	10	2.9	1	0.0	0	34
Excess energy (e.g., noise/light pollution, warm water discharge, etc.)	21.1	8	31.6	12	36.8	14	7.9	3	2.6	1	38	63.6	21	33.3	11	0.0	0	3.0	1	33

Other responses listed:

Response text:

N

Total responses:

0

Climate Change and Severe Weather

Drift Plains (Region 6)	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N	N	N	N	N	N	N	N	N	N		N	N	N	N	N	N	N	N	
Changing frequency, duration, and intensity of drought	55.6	15	29.6	8	7.4	2	3.7	1	3.7	1	27	82.6	19	13.0	3	0.0	0	4.3	1	23
Changing frequency, duration, and intensity of floods	48.1	13	33.3	9	11.1	3	3.7	1	3.7	1	27	71.4	15	23.8	5	0.0	0	4.8	1	21
Shifting and alteration of habitats due to climate change	44.4	12	37.0	10	7.4	2	3.7	1	7.4	2	27	82.6	19	13.0	3	0.0	0	4.3	1	23
Temperature extremes	44.4	12	44.4	12	3.7	1	3.7	1	3.7	1	27	71.4	15	23.8	5	0.0	0	4.8	1	21
Shifting seasons/phenology	48.1	13	40.7	11	0.0	0	3.7	1	7.4	2	27	73.9	17	17.4	4	0.0	0	8.7	2	23

Other responses listed:

Response text:

N

Total responses:

0

Other Stressors

Drift Plains (Region 6)	To what extent is this issue a current threat to fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?										How will the significance of this threat change over the next 10 years?									
	Significant threat		Moderate Threat		Minor Threat		Not a threat		I don't know		Total Responses	Increase		Remain the same		Decrease		I don't know		Total Responses
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Low genetic diversity (due to reduced population size, species inbreeding, etc.)	35.7	10	35.7	10	14.3	4	7.1	2	7.1	2	28	60.0	15	28.0	7	4.0	1	8.0	2	25
Diseases	40.9	9	40.9	9	18.2	4	0.0	0	0.0	0	22	70.0	14	25.0	5	5.0	1	0.0	0	20

Other responses listed:

Response text:

N

Total responses:

0

16. Please use the box below to indicate other **emerging/anticipated** threats over the next 10 years to fish and wildlife habitats within **HABITAT** in the **Drift Plains (Region 6)** that have not been previously identified. Please provide **specific examples** of the emerging/anticipated threats that you indicate.

Response text:

N

The growing disconnect between people and natural systems inhibits the ability of the public to make informed decisions related to natural resources. More conservation education is needed to increase the public's knowledge, experiences and skills to result in informed decisions, a commitment and constructive actions for wildlife resources.

8

The significant reduction in properly implemented early successional habitat projects has already had dramatic impacts on the game and non-game species that require this habitat in Indiana. Without increased cutting in the appropriate habitats this important cover type will be further reduced in this region and throughout Indiana.

1

Ash Bore

1

Available best farming practices being adopted. / Better zoning along rivers and streams to prevent runoff.

1

Diseases (ranovirus, chytrid fungus) and exotics continue to increase and cause problems

1

Drought has caused a lot of damage to forest stands in the past 5 +/- years. Many of the poplar and oaks have been affected and have started showing the signs of the drought stress the past two years. This has created a decrease in cover and food source for many wildlife species.

1

emerald ash borer

1

Fragmentation, ie breaking up tracts into smaller parcels is a threat. Smaller tracts are less likely to be managed. Smaller tracts mean more owners who must be educated and provided the resources to manage. Smaller tracts requires more cooperation for landscape level changes. Smaller tracts may not have economies of scale to harvest and manage the property for invasives, TSI, etc. Transfer of ownership is another threat. The aging population is creating a larger number of transfers to new owners. This is breaking up the parcels to smaller sizes, plus during transfer there is a bigger threat of conversion to other uses. And new less knowledgeable owners are less likely to understand the resource and how to manage it, or have less interest in managing it for the good of wildlife.

1

I can only speak for the portion of area 6 that our organization protects and the land and water nearby.

1

Siltation and crop run off controlling watershed into lakes and streams

1

Total Responses:

17

Section IV: Conservation Actions for Fish and Wildlife Habitats

Directions:

When responding to the questions in this section, please think about conservation actions for fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6).

17. Please indicate (1) the importance of the following general categories of conservation actions for fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6) over the next 10 years, and (2) considering your responsibility within your agency/organization, whether you have taken a general category of conservation actions for fish and wildlife habitats within **HABITAT** in the **Drift Plains (Region 6)** since 2005 or have plans to do so.

<i>Drift Plains (Region 6)</i>	To what extent do you think this category of conservation action is important for fish and wildlife habitats within HABITAT in the Drift Plains (Region 6) over the next 10 years?										Have you taken (since 2005) or do you currently plan to take conservation actions in this category for fish and wildlife habitats within HABITAT in the Drift Plains (Region 6)?							
	Very Important		Moderately Important		Somewhat Important		Not Important		I don't know		Total Responses	Yes		No		I don't know		Total Responses
	N	N	N	N	N	N	N	N	N		N	N	N	N	N	N		
Land/water protection	53.7	36	22.4	15	16.4	11	7.5	5	0.0	0	67	56.8	25	27.3	12	15.9	7	44
Land/water/species management	62.1	41	25.8	17	7.6	5	1.5	1	3.0	2	66	77.8	35	11.1	5	11.1	5	45
Education and awareness	51.4	38	23.0	17	23.0	17	.0	0	2.7	2	74	75.6	34	11.1	5	13.3	6	45
Law and policy	23.9	16	44.8	30	23.9	16	3.0	2	4.5	3	67	31.8	14	25.0	11	43.2	19	44
Livelihood, economic, and other incentives	26.2	17	47.7	31	18.5	12	3.1	2	4.6	3	65	45.5	20	20.5	9	34.1	15	44
External capacity building	26.9	18	28.4	19	28.4	19	6.0	4	10.4	7	67	35.6	16	20.0	9	44.4	20	45

18. You indicated that in your opinion conservation actions relating to the following general categories would be very or moderately important for fish and wildlife habitats within **HABITAT** in the **Drift Plains (Region 6)** over the next 10 years. Please indicate the importance of the following specific conservation actions within these general categories for fish and wildlife habitats within **HABITAT** in the Drift Plains (Region 6). You may add additional conservation actions you think are important using the “Other, please specify” option. (Check one for each line item)

Land/Water Protection

<i>Drift Plains (Region 6)</i>	Very important		Moderately important		Somewhat important		Not important		I don't know		Total Responses
	N		N		N		N		N		
Acquire currently unprotected aquatic systems (manage and/or educate for easement habitat values)	66.7%	6	22.2%	2	11.1%	1	0.0%	0	0.0%	0	9
Acquire currently unprotected barren lands	0.0%	0	0.0%	0	100.0%	1	0.0%	0	0.0%	0	1
Acquire currently unprotected forests	60.0%	9	13.3%	2	20.0%	3	6.7%	1	0.0%	0	15
Acquire currently unprotected grasslands	57.1%	4	28.6%	2	0.0%	0	14.3%	1	0.0%	0	7
Acquire currently unprotected wetlands	66.7%	6	22.2%	2	11.1%	1	0.0%	0	0.0%	0	9
Acquire currently unprotected subterranean habitats	100.0%	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	1
Preserve currently existing corridors	69.4%	34	18.4%	9	12.2%	6	0.0%	0	.0%	0	49
Acquire conservation easements to protect important wildlife habitats	48.0%	24	36.0%	18	14.0%	7	2.0%	1	0.0%	0	50
Reduce conversion to cropland	63.3%	31	26.5%	13	6.1%	3	2.0%	1	2.0%	1	49
Build/strengthen CRP partnerships	57.1%	28	20.4%	10	12.2%	6	4.1%	2	6.1%	3	49

Other responses listed:

Response text:

N

Total responses:

0

Land/Water/Species Management

<i>Drift Plains (Region 6)</i>	Very important		Moderately important		Somewhat important		Not important		I don't know		Total Responses
	N		N		N		N		N		
Control invasive species in agricultural lands	33.3	3	22.2	2	44.4	4	0.0	0	0.0	0	9
Control invasive species in aquatic systems (e.g., Asian carp, zebra mussels, invasive aquatic plants)	25.0	2	37.5	3	37.5	3	0.0	0	0.0	0	8
Control invasive species in barren lands	0.0	0	0.0	0	100.0	1	0.0	0	0.0	0	1
Control invasive species in developed lands	0.0	0	0.0	0	100.0	1	0.0	0	0.0	0	1
Control invasive species in forests	80.0	16	15.0	3	5.0	1	0.0	0	0.0	0	20
Control invasive species in grasslands	55.6	5	11.1	1	33.3	3	0.0	0	0.0	0	9
Control invasive species in wetlands	62.5	5	25.0	2	12.5	1	0.0	0	0.0	0	8
Control invasive species in subterranean systems	100.0	1	0.0	0	0.0	0	0.0	0	0.0	0	1
Control problematic species (e.g., deer, raccoon, geese, domestic cat, feral hog) in agricultural lands	44.4	4	44.4	4	11.1	1	0.0	0	0.0	0	9

Control problematic native species in aquatic systems	25.0	2	37.5	3	37.5	3	0.0	0	0.0	0	8
Control problematic species (e.g., deer, raccoon, skunk, coyote, domestic cat, feral hog) in barren lands	0.0	0	0.0	0	100.0	1	0.0	0	0.0	0	1
Control problematic species (e.g., deer, raccoon, geese, domestic cat, feral hog, exotic/aggressive vegetation) in developed lands	0.0	0	0.0	0	100.0	1	0.0	0	0.0	0	1
Control problematic species (e.g., deer, raccoon, domestic cat, feral hog) in forests	45.0	9	30.0	6	25.0	5	0.0	0	0.0	0	20
Control problematic species (e.g., raccoon, skunk, coyote, domestic cat) in grasslands	12.5	1	37.5	3	25.0	2	25.0	2	0.0	0	8
Control problematic species (e.g., deer, raccoon, domestic cat, feral hog, exotic/aggressive vegetation) in wetlands	28.6	2	42.9	3	28.6	2	0.0	0	0.0	0	7
Control problematic native species in subterranean systems	0.0	0	100.0	1	0.0	0	0.0	0	0.0	0	1
Dam removal	0.0	0	37.5	6	56.3	9	6.3	1	0.0	0	16
Decrease E. coli counts	25.0	4	37.5	6	37.5	6	0.0	0	0.0	0	16
Decrease number of combined sewer overflow events	43.8	7	37.5	6	18.8	3	0.0	0	0.0	0	16
Develop and promote farming technologies and practices that have conservation benefits (e.g., cover crops, no till)	56.1	32	31.6	18	3.5	2	8.8	5	0.0	0	57
Ex situ conservation (protection of a species outside of its natural habitat). Please specify:	8.9	4	4.4	2	26.7	12	37.8	17	22.2	10	45
Improve drainage management	26.8	15	23.2	13	30.4	17	14.3	8	5.4	3	56
Improve integrated pest management	44.4	4	11.1	1	44.4	4	0.0	0	0.0	0	9
Increase acres of riparian buffers	56.4	31	36.4	20	7.3	4	0.0	0	0.0	0	55
Increase acres enrolled in the Classified Forest and Wildlands Program	31.6	18	33.3	19	28.1	16	5.3	3	1.8	1	57
Link existing habitat blocks through corridor enhancement in agricultural lands	50.0	4	50.0	4	0.0	0	0.0	0	0.0	0	8
Link existing habitat blocks through corridor enhancement in aquatic systems	37.5	3	25.0	2	37.5	3	0.0	0	0.0	0	8
Link existing habitat blocks through corridor enhancement in barren lands	0.0	0	0.0	0	100.0	1	0.0	0	0.0	0	1
Link existing habitat blocks through corridor enhancement in developed lands	100.0	1	0.0	0	0.0	0	0.0	0	0.0	0	1
Link existing habitat blocks through corridor enhancement in forests	55.0	11	30.0	6	15.0	3	0.0	0	0.0	0	20
Link existing habitat blocks through corridor enhancement in grasslands	33.3	3	66.7	6	0.0	0	0.0	0	0.0	0	9
Link existing habitat blocks through corridor enhancement in wetlands	62.5	5	25.0	2	12.5	1	0.0	0	0.0	0	8
Enhance corridors in subterranean systems	0.0	0	0.0	0	0.0	0	0.0	0	100.0	1	1
Manage biofuel grasslands	12.5	2	25.0	4	31.3	5	18.8	3	12.5	2	16
Manage urban woodlots	0.0	0	100.0	1	0.0	0	0.0	0	0.0	0	1
Mine reclamation	19.6	9	13.0	6	32.6	15	23.9	11	10.9	5	46
Promote diversity of forest types and successional stages	60.0	12	30.0	6	10.0	2	0.0	0	0.0	0	20
Promote diversity of grassland types and successional stages	77.8	7	22.2	2	0.0	0	0.0	0	0.0	0	9
Promote diversity of wetland types and successional stages	50.0	4	50.0	4	0.0	0	0.0	0	0.0	0	8
Protect and enhance undeveloped shorelines	31.3	5	25.0	4	12.5	2	18.8	3	12.5	2	16
Protect natural water regimes (e.g., withdraws, warm-water discharge)	50.0	4	25.0	2	25.0	2	0.0	0	0.0	0	8
Protect adjacent buffer zones	50.0	9	38.9	7	11.1	2	0.0	0	0.0	0	18
Reduce losses of fish and wildlife habitats (due to agriculture, urban sprawl, commercial development, etc.)	70.2	40	22.8	13	7.0	4	0.0	0	0.0	0	57
Reduce nutrient and toxin loads (e.g., heavy metals, pharmaceuticals, fertilizers,	38.6	22	40.4	23	17.5	10	3.5	2	0.0	0	57

	insecticides)										
Reduce recreational overuse of aquatic systems	12.5	1	12.5	1	50.0	4	25.0	2	0.0	0	8
Reduce recreational overuse of forests	20.0	4	25.0	5	30.0	6	20.0	4	5.0	1	20
Reduce recreational overuse of grasslands	22.2	2	22.2	2	55.6	5	0.0	0	0.0	0	9
Reduce recreational overuse of wetlands	25.0	2	12.5	1	62.5	5	0.0	0	0.0	0	8
Reduce recreational overuse of subterranean systems	0.0	0	0.0	0	100.0	1	0.0	0	0.0	0	1
Reduce stream bank erosion	62.5	5	37.5	3	0.0	0	0.0	0	0.0	0	8
Reduce stream head cutting	50.0	4	25.0	2	25.0	2	0.0	0	0.0	0	8
Reestablish natural disturbance regimes in barren lands	0.0	0	100.0	1	0.0	0	0.0	0	0.0	0	1
Reestablish natural disturbance regimes in forests	50.0	10	40.0	8	5.0	1	5.0	1	0.0	0	20
Reestablish natural disturbance regimes in grasslands	77.8	7	22.2	2	0.0	0	0.0	0	0.0	0	9
Reestablish natural disturbance regimes in wetlands	25.0	2	62.5	5	12.5	1	0.0	0	0.0	0	8
Reestablish natural disturbance regimes in subterranean systems	0.0	0	0.0	0	0.0	0	0.0	0	100.0	1	1
Remove log jams	0.0	0	12.5	1	75.0	6	12.5	1	0.0	0	8
Restore and integrate diversity of habitats into crop-production dominated landscapes	55.6	5	33.3	3	11.1	1	0.0	0	0.0	0	9
Restore and integrate diversity of habitats into developed landscapes	0.0	0	0.0	0	0.0	0	100.0	1	0.0	0	1
Restore habitats and natural systems in aquatic systems	57.1	4	42.9	3	0.0	0	0.0	0	0.0	0	7
Restore habitats and natural systems in barren lands	0.0	0	100.0	1	0.0	0	0.0	0	0.0	0	1
Restore habitats and natural systems in forests	75.0	15	20.0	4	5.0	1	0.0	0	0.0	0	20
Restore habitats and natural systems in grasslands	77.8	7	22.2	2	0.0	0	0.0	0	0.0	0	9
Restore habitats and natural systems in wetlands	75.0	6	25.0	2	0.0	0	0.0	0	0.0	0	8
Restore habitats and natural systems in subterranean systems	100.0	1	0.0	0	0.0	0	0.0	0	0.0	0	1
Species reintroduction. Please specify:	52.6	10	15.8	3	5.3	1	5.3	1	21.1	4	19

Ex situ conservation

Response text	N
captive rear E & t species	1
Total responses:	1

Species reintroduction listed by respondents:

Response text:	N
Gamebird Management	3
quail	2
black bears & wolves	1
Crawfish frog; native grassland plants	1
Elk and black bear	1
Gamebird Management-Ruffed Grouse Specifically	1
hellbender, threatened mussels	1
natives now gone	1
Total Responses:	11

Other responses listed:

Response text:	N
Total Responses:	0

Education and Awareness

	<i>Drift Plains (Region 6)</i>		Very important		Moderately important		Somewhat important		Not important		I don't know		Total Responses
	N		N		N		N		N		N		
Educational programs in general	66.7	36	29.6	16	3.7	2	0.0	0	.0	0			54
Educational programs specifically for K-12	72.2	39	20.4	11	3.7	2	3.7	2	0.0	0			54
Improvement of signage and other communication materials in conservation areas	22.2	12	33.3	18	44.4	24	0.0	0	0.0	0			54
Training programs for stakeholders	47.2	25	39.6	21	13.2	7	0.0	0	0.0	0			53

Other responses listed:

Response text:	N
Education of taxpayers	1
Total responses:	1

Law and Policy

	<i>Drift Plains (Region 6)</i>		Very important		Moderately important		Somewhat important		Not important		I don't know		Total Responses
	N		N		N		N		N		N		
Increase regulations on invasive species	51.1	23	28.9	13	20.0	9	0.0	0	0.0	0			45
Change current laws, policies, and regulations. Please specify:	22.5	9	25.0	10	25.0	10	7.5	3	20.0	8			40
Set private sector standards and codes	27.3	12	29.5	13	29.5	13	4.5	2	9.1	4			44
Improve compliance with and enforcement of current policies	40.0	18	44.4	20	8.9	4	2.2	1	4.4	2			45
Reduce urban sprawl through planning and zoning	47.7	21	29.5	13	22.7	10	.0	0	0.0	0			44
Establish legal lake levels	16.7	1	33.3	2	16.7	1	16.7	1	16.7	1			6
Establish rules and guidelines for piers and other structures	16.7	1	16.7	1	50.0	3	0.0	0	16.7	1			6
Increase compliance of existing rules and regulations for aquatic systems	16.7	1	33.3	2	50.0	3	0.0	0	0.0	0			6
Establish submergent vegetation control guidelines	16.7	1	33.3	2	33.3	2	0.0	0	16.7	1			6

Change current laws, policies, and regulations responses:

Response text:	N
404 Regs	1
Curtail turtle harvest	1
Give Indiana ESA teeth	1
increase pollution control	1
turtle harvest must be reduced	1
Zoning	1

Total responses	6
Other responses listed:	
Response text	N
Total responses:	0

Livelihood, Economic, and Other Incentives

	<i>Drift Plains (Region 6)</i>										Total Responses
	Very important		Moderately important		Somewhat important		Not important		I don't know		
	N		N	N		N		N		N	
Link natural resources to livelihoods through nature tourism	23.4	11	29.8	14	38.3	18	2.1	1	6.4	3	47
Support substitution of alternatives for environmentally harmful products and processes	27.7	13	36.2	17	34.0	16	0.0	0	2.1	1	47
Promote market forces (e.g., creation of a nitrogen trading market, promotion of alternative agricultural markets) as a tool for conservation	6.5	3	34.8	16	45.7	21	4.3	2	8.7	4	46
Promote conservation payment programs (e.g., payment for ecosystem services, conservation easements)	45.7	21	43.5	20	6.5	3	0.0	0	4.3	2	46
Promote nonmonetary values of natural systems within the state	37.0	17	41.3	19	21.7	10	.0	0	0.0	0	46
Manage recreational opportunities to be compatible with fish and wildlife habitats	32.6	15	39.1	18	26.1	12	2.2	1	0.0	0	46

Other responses listed:	
Response text	N
Total responses:	0

External Capacity Building

	<i>Drift Plains (Region 6)</i>										Total Responses
	Very important		Moderately important		Somewhat important		Not important		I don't know		
	N		N	N		N		N		N	
Develop institutions and civil society	23.5	8	14.7	5	32.4	11	11.8	4	17.6	6	34
Develop alliances and partnerships (e.g., between producers, landowners, and conservation professionals)	63.9	23	22.2	8	13.9	5	0.0	0	0.0	0	36
Strengthen conservation financing	62.9	22	14.3	5	20.0	7	2.9	1	0.0	0	35
Increase state's capacity for research and monitoring of conservation actions	50.0	18	41.7	15	8.3	3	0.0	0	0.0	0	36
Promote green infrastructure	25.0	9	33.3	12	33.3	12	2.8	1	5.6	2	36
Promote use of research and science in conservation decision-making processes	66.7	24	25.0	9	8.3	3	0.0	0	0.0	0	36

Other responses listed:	
Response text	N
Total responses:	0