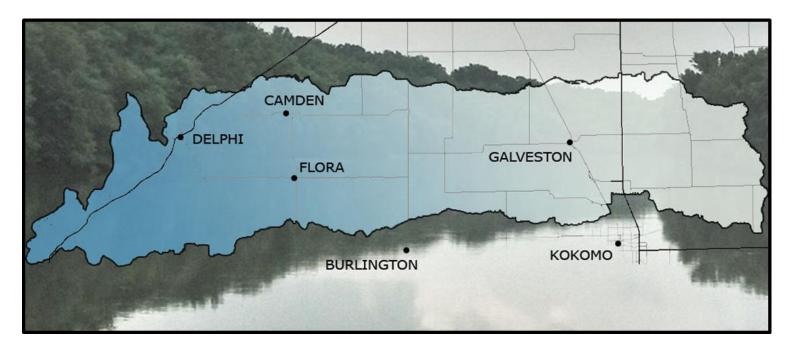
Deer Creek-Sugar Creek Watershed



Human Dimensions of Water Quality in the Deer Creek-Sugar Creek Watersheds

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I. Methods

5-wave mail and internet survey:

- 1. Advance letter (including web address for the online version) sent on 10/31/13.
- 2. Paper survey mailing sent on 11/08/13.
- 3. Reminder postcard sent on 11/19/13.
- 4. Paper survey mailing sent on 12/03/13.
- 5. Final paper survey with postcard (stating that this is the final mailing) sent on 12/13/13.

Response rate:

- 612 Surveys distributed
- 43 Bad addresses
- <u>269</u> Completed (<u>47</u>% response rate after accounting for bad addresses)

II. Your Water Resources

1. Of these activities, which is the most important to you? (select one) (n=219)

7.3% Canoeing / kayaking / other boating

20.1% Fishing

1.4% Swimming

16.0% Picnicking and family activities

55.3% Enjoying scenic beauty

2. Do you know where the rain water goes when it runs off of your property? (Yes or No) (n=244)

89.3% Yes

10.7% No

3. If you answered 'Yes' above, where does your rain water drain to?

See Appendix A

III. Your Opinions

Please indicate your level of agreement or disagreement with the statements below.

		Strongly Disagree (1)	Disagree (2)	Neither Agree nor Disagree (3)	Agree (4)	Strongly Agree (5)	Mean (n)
	The way that I care for my lawn and yard can influence water quality in local streams.	4.0%	8.5%	18.8%	54.5%	14.3%	3.67 (224)
	Using recommended management practices on farms improves water quality.	0.4%	0.8%	6.8%	69.7%	22.3%	4.13 (251)
	It is my personal responsibility to help protect water quality.	0.4%	0.8%	6.4%	69.5%	22.9%	4.14 (249)
	It is important to protect water quality even if it slows economic development.	0.8%	3.2%	23.0%	57.3%	15.7%	3.84 (248)
	My actions have an impact on water quality.	1.2%	4.8%	13.3%	65.1%	15.7%	3.89 (249)
	I would be willing to pay more to improve water quality (for example: through local taxes or fees).	15.4%	24.3%	38.5%	20.2%	1.6%	2.68 (247)
Ũ	I would be willing to change the way I care for my lawn and yard to improve water quality.	5.7%	10.2%	35.2%	42.6%	6.1%	3.33 (244)
h.	I would be willing to change management practices to improve water quality.	3.7%	9.4%	31.1%	50.4%	5.3%	3.44 (244)
	The quality of life in my community depends on good water quality in local rivers and streams.	1.6%	5.2%	18.1%	62.7%	12.4%	3.79 (249)

IV. Water Impairments

Below is a list of water pollutants and conditions that are generally present in water bodies to some extent. The pollutants and conditions become a problem when present in excessive amounts. In your opinion, how much of a problem are the following water impairments in your area?

		Not a Problem (1)	Slight Problem (2)	Moderate Problem (3)	Severe Problem (4)	Don't Know	Mean (n)
a.	Sedimentation (dirt and soil) in the water	15.7%	30.2%	32.3%	6.9%	14.9%	2.36 (211)
b.	Nitrogen	23.9%	23.9%	17.5%	4.8%	29.9%	2.05 (176)
c.	Phosphorus	23.9%	24.3%	17.9%	3.2%	30.7%	2.01 (174)
d.	Bacteria and viruses in the water (such as E. coli / coliform)	21.6%	22.0%	17.6%	6.0%	32.8%	2.12 (168)
e.	Trash or debris in the water	16.0%	31.6%	31.2%	9.6%	11.6%	2.39 (221)
f.	Pesticides	22.4%	26.4%	15.6%	6.0%	29.6%	2.07 (176)

V. Consequences of Poor Water Quality

Poor water quality can lead to a variety of consequences for communities. In your opinion, how much of a problem are the following issues in your area?

		Not a Problem (1)	Slight Problem (2)	Moderate Problem (3)	Severe Problem (4)	Don't Know	Mean (n)
a.	Contaminated fish	29.9%	24.7%	15.9%	6.8%	22.7%	1.99 (194)
b.	Reduced beauty of streams	33.5%	30.7%	19.9%	5.6%	10.4%	1.97 (225)
c.	Reduced opportunities for water recreation	40.6%	25.3%	12.0%	5.2%	16.9%	1.78 (207)
d.	Reduced quality of water recreation activities	38.2%	27.3%	13.7%	4.4%	16.5%	1.81 (208)
e.	Excessive aquatic plants or algae	29.8%	29.4%	12.1%	5.2%	23.4%	1.91 (190)
f.	Fish kills	47.6%	20.4%	8.4%	3.2%	20.4%	1.59 (199)
g.	Lower property values	53.0%	15.1%	6.4%	3.2%	22.3%	1.48 (195)

VI. Sources of Water Pollution

The items listed below are sources of water quality pollution across the country. In your opinion, how much of a problem are the following sources in your area?

		Not a Problem (1)	Slight Problem (2)	Moderate Problem (3)	Severe Problem (4)	Don't Know (3)	Mean (n)
a.	Discharges from industry into streams	32.2%	28.6%	14.5%	4.3%	20.4%	1.89 (203)
b.	Discharges from sewage treatment plants	29.3%	21.9%	19.5%	7.0%	22.3%	2.06 (199)
C.	Soil erosion from farm fields	14.6%	44.7%	25.7%	5.9%	9.1%	2.25 (230)
d.	Soil erosion from streambanks	15.4%	38.2%	25.6%	8.7%	12.2%	2.31 (223)
e.	Improperly maintained septic systems	24.3%	29.8%	14.9%	4.7%	26.3%	2.00 (188)
f.	Manure from farm animals	42.9%	27.0%	13.5%	4.4%	12.3%	1.76 (221)
g.	Littering/illegal dumping of trash	15.2%	37.9%	30.1%	5.1%	11.7%	2.28 (226)
h.	Excessive use of fertilizers for crop production	38.8%	26.7%	13.3%	3.9%	17.3%	1.79 (211)
i.	Pasture grazing	64.6%	15.4%	4.7%	1.2%	14.2%	1.33 (218)
j.	Animal feeding operations	45.1%	23.5%	10.6%	3.5%	17.3%	1.67 (211)
k.	Construction of highways, roads, and bridges	35.0%	27.6%	14.2%	7.5%	15.7%	1.93 (214)
١.	Urban stormwater runoff	27.8%	23.8%	20.6%	9.5%	18.3%	2.15 (206)

VII. Practices to Improve Water Quality Please indicate which statement most accurately describes your level of experience with each practice listed below.

		Not relevant for my property	Never Heard of It (0)	Somewhat familiar with it (1)	Know how to use it; not using it (2)	Currently Use It (3)	Mean (n)
a.	Regular servicing of septic system	16.3%	9.5%	20.6%	6.3%	47.2%	3.09 (211)
b.	Using regular soil tests for pH, phosphorous, nitrogen, and potassium to determine nutrient application rates	10.0%	2.8%	8.0%	6.0%	73.1%	3.66 (224)
c.	Using manure in accordance with its nutrient content	48.0%	1.2%	8.4%	4.4%	38.0%	3.52 (130)
d.	Following university recommendations for fertilization rates	13.8%	4.9%	14.6%	5.7%	61.1%	3.43 (213)
e.	Using variable rate application technology for more precise crop production	16.2%	3.2%	8.1%	10.1%	62.3%	3.57 (207)
f.	Considering location and soil characteristics to minimize leaching or runoff	14.7%	2.4%	18.4%	4.9%	59.6%	3.43 (209)
g.	Constructing a facility for composting dead animals	71.6%	2.4%	5.2%	8.8%	12.0%	3.07 (71)
h.	Retaining crop residue on soil surface to reduce erosion	12.4%	1.2%	10.4%	5.6%	70.3%	3.66 (218)
i.	Following an approved grazing plan to maintain grass quality and reduce erosion	68.1%	2.4%	5.9%	7.9%	15.7%	3.16 (81)
j.	Using a grassed waterway to reduce erosion and soil loss	19.3%	1.2%	7.5%	4.3%	67.7%	3.72 (205)
k.	Using fences to exclude livestock from streams and ditches	73.6%	0.8%	2.8%	7.9%	15.0%	3.40 (67)
١.	Using conservation tillage, including no-till, strip-till and ridge till	21.5%	0.8%	11.6%	18.7%	47.4%	3.44 (197)

VIII. Constraints for Specific Practices

A. Feedlot Runoff Diversion

Use of a built diversion structure, filter strips, or grassed waterways to prevent surface water from flowing through feedlots.

1. How familiar are you with this practice? (n=241)

72.6% Not relevant for my operation

- 2.5% Never heard of it
- 8.3% Somewhat familiar with it
- 3.7% Know how to use it; not using it

12.9% Currently use it

2. If the practice is not relevant, please explain why.

See Appendix B

3. Are you willing to try this practice? (n=109)

32.1% Yes or already do 27.5% Maybe 40.4% No

How much do the following factors limit your ability to implement this practice?	Not at all (1)	A little (2)	Some (3)	A lot (4)	Don't Know	Mean (n)
a. Don't know how to do it	39.7%	14.0%	12.4%	2.5%	31.4%	1.67 (83)
b. Time required	26.7%	15.8%	17.5%	6.7%	33.3%	2.06 (80)
c. Cost	21.7%	12.5%	23.3%	9.2%	33.3%	2.30 (80)
d. The features of my property make it difficult	32.8%	13.4%	11.8%	8.4%	33.6%	1.94 (79)
e. Insufficient proof of water quality benefit	28.6%	19.3%	11.8%	4.2%	36.1%	1.87 (76)
f. Desire to keep things the way they are	33.1%	15.3%	12.9%	9.7%	29.0%	1.99 (88)
g. Hard to use with my farming system	36.7%	11.7%	13.3%	5.8%	32.5%	1.83 (81)
h. Lack of equipment	34.5%	16.0%	12.6%	5.9%	31.1%	1.85 (82)

B. Cover Crops Planting cover crops for erosion protection and soil improvement.

1. How familiar are you with this practice? (n=243)

15.2% Not relevant for my operation1.6% Never heard of it25.9% Somewhat familiar with it26.7% Know how to use it; not using it30.5% Currently use it

2. If the practice is not relevant, please explain why.

See Appendix C

3. Are you willing to try this practice? (n=190)

31.1% Yes or already do 50.5% Maybe 18.4% No

How much do the following factors limit your ability to implement this practice?	Not at all (1)	A little (2)	Some (3)	A lot (4)	Don't Know	Mean (n)
a. Don't know how to do it	48.6%	13.7%	19.1%	1.1%	17.5%	1.67 (151)
b. Time required	22.8%	17.9%	30.4%	10.9%	17.9%	2.36 (151)
c. Cost	20.5%	13.5%	28.6%	16.8%	20.5%	2.52 (147)
d. The features of my property make it difficult	44.6%	15.1%	15.6%	3.8%	21.0%	1.73 (147)
e. Insufficient proof of water quality benefit	35.2%	15.9%	20.3%	3.3%	25.3%	1.89 (136)
f. Desire to keep things the way they are	37.6%	17.2%	14.5%	14.0%	16.7%	2.06 (155)
g. Hard to use with my farming system	29.9%	16.3%	20.1%	13.6%	20.1%	2.22 (147)
h. Lack of equipment	29.7%	19.2%	22.0%	11.0%	18.1%	2.17 (149)

C. Two Stage Ditch

A small main channel with vegetated benches that utilize the stream flow process to create a stable ditch, which requires less maintenance.

1. How familiar are you with this practice? (n=242)

23.1% Not relevant for my operation38.0% Never heard of it20.2% Somewhat familiar with it10.7% Know how to use it; not using it7.9% Currently use it

2. If the practice is not relevant, please explain why. See Appendix D

3. Are you willing to try this practice? (n=172)

12.2% Yes or already do 58.7% Maybe 29.1% No

How much do the following factors limit your ability to implement this practice?	Not at all (1)	A little (2)	Some (3)	A lot (4)	Don't Know	Mean (n)
a. Don't know how to do it	24.6%	8.8%	22.8%	11.1%	32.7%	2.30 (115)
b. Time required	18.2%	10.6%	22.4%	13.5%	35.3%	2.48 (110)
c. Cost	12.8%	9.3%	19.8%	24.4%	33.7%	2.84 (114)
d. The features of my property make it difficult	20.8%	12.5%	17.3%	10.1%	39.3%	2.27 (102)
e. Insufficient proof of water quality benefit	26.3%	14.4%	18.6%	5.4%	35.3%	2.05 (108)
f. Desire to keep things the way they are	32.6%	13.1%	14.9%	10.3%	29.1%	2.04 (124)
g. Hard to use with my farming system	27.4%	13.1%	13.7%	8.9%	36.9%	2.07 (106)
h. Lack of equipment	22.5%	8.9%	17.2%	13.0%	38.5%	2.34 (104)

D. Vegetated Riparian Buffer

Establishing vegetation to function as a buffer to ponds, wetlands, rivers, streams, and creeks.

1. How familiar are you with this practice? (n=242)

21.5% Not relevant for my operation18.6% Never heard of it20.2% Somewhat familiar with it5.0% Know how to use it; not using it34.7% Currently use it

2. If the practice is not relevant, please explain why. See Appendix E

3. Are you willing to try this practice? (n=163)

39.9% Yes or already do 35.6% Maybe 24.5% No

How much do the following factors limit your ability to implement this practice?	Not at all (1)	A little (2)	Some (3)	A lot (4)	Don't Know	Mean (n)
a. Don't know how to do it	40.5%	10.1%	14.6%	5.1%	29.7%	1.77 (111)
b. Time required	31.2%	17.2%	14.6%	9.6%	27.4%	2.04 (114)
c. Cost	27.0%	13.2%	16.4%	15.1%	28.3%	2.27 (114)
d. The features of my property make it difficult	39.9%	11.4%	14.6%	4.4%	29.7%	1.77 (111)
e. Insufficient proof of water quality benefit	41.4%	10.8%	15.3%	2.5%	29.9%	1.70 (110)
f. Desire to keep things the way they are	40.6%	15.0%	13.8%	6.3%	24.4%	1.81 (121)
g. Hard to use with my farming system	40.8%	10.2%	13.4%	7.6%	28.0%	1.83 (113)
h. Lack of equipment	37.6%	10.8%	16.6%	6.4%	28.7%	1.88 (112)

IX. Making Decisions for My Property In general, how much does each issue limit your ability to change your management practices?

		Not at All (1)	A little (2)	Some (3)	A lot (4)	Don't Know	Mean (n)
a.	Personal out-of-pocket expense	11.2%	13.8%	33.2%	31.0%	10.8%	2.94 (207)
b.	Lack of government funds for cost share	15.7%	14.0%	33.2%	21.4%	15.7%	2.72 (193)
C.	My own physical abilities	32.9%	17.3%	26.8%	13.4%	9.5%	2.23 (209)
d.	Not having access to the equipment I need	21.7%	18.6%	27.9%	19.9%	11.9%	2.52 (199)
e.	Lack of available information about a practice	23.5%	22.6%	25.2%	11.9%	16.8%	2.31 (188)
f.	No one else I know is implementing the practice	31.1%	19.7%	15.8%	7.9%	25.4%	2.01 (170)
g.	Concerns about reduced yields	26.3%	21.5%	20.2%	18.9%	13.2%	2.36 (198)
h.	Approval of my neighbors	51.5%	14.1%	14.5%	5.3%	14.5%	1.69 (194)
i.	Don't want to participate in government programs	40.0%	13.5%	20.4%	12.2%	13.9%	2.06 (198)
j.	Requirements or restrictions of government programs	20.2%	17.1%	21.1%	24.6%	17.1%	2.60 (189)
k.	Possible interference with my flexibility to change land use practices as conditions warrant	17.5%	14.0%	31.1%	18.9%	18.4%	2.63 (186)
١.	Don't know where to get information and/or assistance for new practices	42.9%	22.3%	13.4%	4.5%	17.0%	1.75 (186)
m.	Environmental damage caused by practice	41.2%	17.5%	13.2%	5.7%	22.4%	1.79 (177)
n.	Legal restrictions on my property	34.8%	16.3%	16.3%	10.6%	22.0%	2.03 (177)
0.	I do not own the property	63.9%	5.1%	12.5%	8.8%	9.7%	1.63 (195)
р.	Concerns about resale value	50.9%	13.2%	14.0%	6.6%	15.4%	1.72 (193)
q.	Not being able to see a demonstration of the practice before I decide	34.8%	19.8%	17.2%	9.7%	18.5%	2.02 (185)
r.	The need to learn new skills or techniques	35.0%	20.4%	20.8%	6.2%	17.7%	1.98 (186)

X. About Your Farm Operation

1. Please select the option that best describes who generally makes management decisions for your operation. (n=248)

- 31.9% Me alone or with my spouse
- 35.5% Me with my family partners (siblings, parents, children)
- 3.6% Me with the landowner
- 16.5% Me with my tenant
- 5.6% Me and my business partners
- 4.8% Someone else makes the decisions for the operation
- 2.0% Other: ___
 - "All the answers but the last one"
 - "me and my son"
 - "N/A"
 - "Tenants"

2. Please estimate the total crop and pasture acreage (owned and/or rented) of your farming operation this year. (n=242)

Range: 0 – 6500 Mean: 571

3. This year, how many acres of pasture do you manage? If none, please enter a zero. (n=250) Range: 0 - 3000

Mean: 25

 4. How many years have you been farming? (n=235)
 Range: 0 – 80

Mean: 33

5. Did any family member own and operate this farm before you did? (n=245)
28.2% No
71.8% Yes

6. If you answered 'yes' to the previous question, how many years has the farm been in the family? (n=180) Range: 15 – 180 Mean: 77

7. How likely is it that any family member will continue farm operations when you retire or quit farming? (n=247)

9.3% Definitely will not happen

- 19.0% Probably will not happen
- 43.3% Probably will happen 28.3% Definitely will happen

8. Does the property you manage touch a stream, river, or wetland? (n=250)
62.0% Yes
38.0% No

9. Do you have a nutrient management plan for your farm operation? (n=237)

67.9% Yes

32.1% No

10. If you do have a nutrient management plan, does your nutrient management plan meet the NRCS technical standard 590? (n=157)

- 70.7% I don't know
- 0.0% No
- 29.3% Yes

11. Who developed your current nutrient management plan? (n=156)

- 10.9% My soil and water conservation district, University Extension, or NRCS office
- 61.5% A private-sector agronomist or crop consultant
- 13.5% I created my own plan
- 9.0% I don't know
- 5.1% Other:
 - "Cash Renter"
 - "Co-op"
 - "My tenant"
 - "Tenant"
 - "Tenant"
 - "Tenant"
 - "Tenant manages"

XI. About You

1. Do you make the home and lawn care decisions in your household? (n=248)

92.3% Yes 7.7% No

2. What is your gender? (n=250) 86.8% Male 13.2% Female

3. What is your age? (n=241) Range: 24 -101 **Mean:** 64

4. What is the highest grade in school you have completed? (n=248)

6.9% Some formal schooling
39.1% High school diploma / GED
21.4% Some college
8.1% 2 year college degree
16.9% 4 year college degree
7.7% Post-graduate degree

5. What is the approximate size of your residential lot? (n=244)

3.3% ¼ acre or less
13.5% More than ¼ acre but less than 1 acre
67.6% 1 acre to less than 5 acres
15.6% 5 acres or more

6. Do you own or rent your home? (n=249) 96.0% Own 4.0% Rent

7. How long have you lived at your current residence (years)? (n=246) Range: 1 - 90 Mean: 32

8. Which of the following best describes where you live? (n=251)

3.6% In a town, village, or city

82.5% On a farm

- 8.0% In an isolated, rural, non-farm residence
- 6.0% Rural subdivision or development

9. Do you use a professional lawn care service? (n=251)

0.4% Yes, just for mowing
0.8% Yes, for mowing and fertilizing
6.4% Yes, just for fertilizing and pest control
0.4% Yes, for mowing, fertilizing, and pest control
92.0% No

10. Where are you likely to seek information about soil and water conservation issues? (check all that apply) (n=267)

- 46.1% Newsletters / brochures / fact sheets
- 24.7% Internet
- 3.7% Radio
- 28.8% Workshops / demonstrations / meetings
- 37.1% Conversations with others
- 27.7% Trade publications / magazines
- 15.4% None of the above

11. Where are you likely to seek information about water quality issues? (check all that apply) (n=267)

- 44.9% Newsletters / brochures / fact sheets
- 26.6% Internet
- 4.1% Radio
- 28.1% Newspapers / magazines
- 26.2% Workshops / demonstrations / meetings
- 33.7% Conversations with others
- 12.4% None of the above

XII. Information Sources

People get information about water quality from a number of different sources. To what extent do you trust those listed below as a source of information about soil and water?

		Not at all (1)	Slightly (2)	Moderately (3)	Very much (4)	Am not familiar	Mean (n)
a.	Soil and Water Conservation District	2.9%	4.9%	29.2%	58.8%	4.1%	3.50 (233)
b.	Natural Resources Conservation Service	3.8%	10.0%	30.8%	47.1%	8.3%	3.32 (220)
c.	Purdue Extension	2.9%	11.3%	29.2%	52.5%	4.2%	3.37 (230)
d.	Indiana State Department of Agriculture	6.6%	15.4%	34.9%	36.1%	7.1%	3.08 (224)
e.	Indiana Department of Environmental Management	14.6%	21.3%	32.1%	22.9%	9.2%	2.70 (218)
f.	Indiana Department of Natural Resources	7.1%	18.4%	35.6%	31.4%	7.5%	2.99 (221)
g.	Fertilizer representatives	13.0%	20.2%	34.9%	26.1%	5.9%	2.79 (224)
h.	Crop consultants	8.8%	16.4%	35.7%	31.5%	7.6%	2.97 (220)
i.	Wabash River Enhancement Corporation	15.9%	13.8%	17.2%	10.9%	42.3%	2.40 (138)
j.	NICHES Land Trust	18.8%	9.2%	9.6%	4.2%	58.2%	1.98 (100)
k.	Other landowners / friends	8.0%	24.4%	44.5%	18.1%	5.0%	2.77 (226)
I.	Hoosier Environmental Council	19.8%	15.2%	5.5%	5.5%	54.0%	1.93 (109)
m.	U.S. Environmental Protection Agency	30.8%	24.9%	16.0%	8.4%	19.8%	2.03 (190)
n.	Local government	18.1%	34.9%	28.2%	8.8%	10.1%	2.31 (214)
0.	Farm Bureau	11.2%	23.2%	36.9%	18.7%	10.0%	2.70 (217)
p.	Farm Service Agency	5.4%	14.5%	38.6%	36.1%	5.4%	3.11 (228)

XIII. Your Septic System

1. Do you have a septic system? (n=257)

7.0% No – (Thank you, survey complete. Please enter any comments below.)
1.6% Don't know
91.4% Yes

2. If you answered 'yes' to the previous question, in what year was it installed? (n=156)

Range: 1910 - 2013 Mean: 1982

3. Within the last five years, have you had any of the following problems? (check all that apply) (n=235)

- 6.8% Slow drains
- 1.7% Sewage backup in house
- 0.4% Bad smells near tank or drain field
- 0.9% Sewage on the surface
- 0.0% Sewage flowing to ditch
- 0.0% Frozen septic
- 1.3% Other:_____
 - "It's alright"
 - "None"
 - "Septic tank full"
- 84.7% None
- 3.0% Don't know

4. Does your septic system have an absorption field (finger system)? (n=229)

76.0% Yes

12.2% No

11.8% Don't know

5. How would you know if your septic system was NOT working properly? (check all that apply) (n=235)

- 67.2% Slow drains
- 58.7% Sewage backup in house
- 43.8% Bad smells
- 66.0% Toilet backs up
- 46.8% Wet spots in lawn
- 29.4% Pumping tank monthly or more
- 7.7% Straight pipe to ditch
- 8.9% Frozen septic
- 7.7% Don't know
- 5.5% Other:_
 - "Alert system"
 - "All"
 - "Any of the above. We have no problem!"
 - "Color of grass over fingers"
 - "Don't have problems"
 - "Have not had a problem"

- "I have it checked and maintained every other year"
- "If it don't work"
- "Inspections every 3-5 years + pumping tank"
- "Never had a problem"
- "No problem"
- "None"

Appendix A

3. If you answered 'Yes" above, where does your rain water drain to?

		Frequency
		50
	Most of are water goes to the Dehaven ditch then goes N to the Deer Creek	1
	A Branch of the Bachelor Run Ditch, eventually drains to Deer Creek & Wabash River	1
	A COUNTY DRAIN LINE AND IT EMPTIES INTO DEER CREEK	1
	an open ditch	1
	Bachelor River	1
	Bachelor Run	3
	BACHELOR RUN	1
	bachelor run creek	1
	Bachelor Run Ditch	1
	Bachelor Run then Big Deer Creek	1
	Bachelor Run to Deer Creek	1
	BACHLOR RUN C	1
	Back ditch that flows into Deer Creek	1
	Batchlor Run Creek	1
Valid	Bear Creek, Pipe Creek & Wabash River	1
	BECHELOR RUN	1
	Bracher Run	1
	BRIDGE CREEK	1
	BRIDGE CREEK, DEER CREEK, ROBINSON RUN	1
	Brown's Ditch	1
	Buck Creek	1
	Buck Creek Ditch then to the Wabash River	1
	COUNTY DITCH	2
	county drainage ditch	1
	COUNTY DRAINS	1
	creek	2
	Creek	2
	CREEK	4
	CREEKS AND RIVERS	1
	Creeks and streams	1

	-
Deer	1
deer creek	1
Deer creek	1
Deer Creek	18
DEER CREEK	21
Deer Creek and Paint Creek	1
DEER CREEK WATERSHED	1
DEER CREEK-SUGAR CREEK WATERSHED	1
deer creek-wabash	1
Deer Creek-Wild Cat	1
Deer creek, big and little	1
derr creek	1
DIRECTLY TO WABASH RIVER VIA BRIDGE CREEK	1
ditch	4
DITCH	1
ditch just north of our property	1
DITCHES AND THEN ?	1
down hill or street sewer	1
DOWN IN THE GROUND	1
drainage ditch	1
Drainage ditch	1
Drainage ditch south 3/4 mile	1
DRAINAGE TILE	1
Drains in the ground and out in towel	1
drains into ditches then into rivers	1
FIELD	1
field tile	1
Field tile	1
FIELD TILE	1
field tile and open ditch	1
field tile to Deer Creek	1
Fields	1
FIELDS AND DITCH-THOMPSON DRAIN	1
Filter Strips to Open ditch	1
Finger System/Field	1

—	•
Gilbert Ditch	1
GROUND	1
Gulf of Mexico	1
Hyman ditch through drain tile	1
If not absorbed, it goes to tile ditches which drain into Deer Creek or Bachelor Run (depending	1
on the direction)	
IN AN OPEN DITCH	1
In little Deer Creek	1
in the bachelor run	1
IN THE SOIL OR IN THE DITCH	1
INTO A FIELD TILE AND INTO AN OPEN DITCH	1
into an open ditch	1
into deer creek	1
Into Deer Creek	1
INTO DEER CREEK	1
into deer creek then into the wabash	1
Into drainage tile, tile empties into open ditches, open ditches empties into creeks and streams,	1
then to rivers, and into the gulf of Mexico	
Into our local creeks , then to our rivers then to the Gulf of Mexico	1
Into the groud	1
IT DRAINS INTO CREEKS AND OPEN DITCHES	1
Johns Ditch	1
KOKOMO RESORVOIR	1
Little Deer Creek	1
LITTLE DEER CREEK	1
LITTLE DEER CREEK OR IN THE GROUND	1
McKay dredge and eventually the Wabash	1
McKay Dredge Ditch	1
MISSISNAWA RESIVOIR	1
Mississippi River	1
MOST OF IT DRAINS INTO THE MCKAY DITCH	1
Munson ditch-Deer Creek-Wabash	1
NEAR BY STREAM	1
NORTH TO MIAMI COUNTY, THEN WEST TO THE WABASH RIVER. INTO OUR CREEK	1
THEN	I

_	
Oceans	1
Open ditch	1
OPEN DITCH	1
OPEN DITCH THAT FEEDS INTO DEER CREEK	1
open ditch then to bachelor run to deer creek-etc	1
open ditches field tile then to small rivers	1
OPEN DITCHES, THEN CREEK, POINT CREEK OR DEER CREEK	1
Paint Creek	2
Paint Creek to Deer Creek	1
Paint Creek/Deer Creek	1
Pond on property and the WIIdcat Creek	1
Ponds-creek	1
Really two places, down into the earth and to a drainage ditch on west side of property	1
Rice Bell Drain	1
Ridenour Ditch & Deer Creek	1
Ridenour Ditch & to Little Deer Creek & then to Big Deer Creek	1
rivers	1
Rock Creek	1
ROCK CREEK	2
Si FK Deer Creek	1
SMALL CREEK ON FARM	1
Small ditches that end up in time in the Wildcat creek	1
small streams that eventually drains into Deer Creek	1
soil, field tile, creek.	1
SOME IN SUGAR CREEK, OTHER IN OTHER OPEN DITCHES	1
STORM SEWER	1
Sugar Creek	2
SUGAR CREEK	2
Sugar Creek + Wabash River	1
SUGAR CREEK AND OPEN DITCH THAT RUNS TO SUGAR CREEK	1
Sugar Creek and to the Wildcat Creek	1
SUGAR CREEK DEER CREEK	1
SUGAR CREEK THEN TO WABASH RIVER	1
suger creek	1
THE CREEK!	1

the Gulf of Mexico	1
THE OPEN DITCH THAT RUNS THROUGH THE FARM	1
the Wabash	1
the Wabash River	1
THE WATER DRAINS INTO A NEARBY DITCH	1
Tiles-open ditches-wildcat-wabash	1
tiles, creeks, rivers	1
Tippecanoe, Wabash, Deer Creek	1
TO BATCHELOR RUN THEN TO LITTLE DEER CREEK	1
to deer creek	1
TO DEER CREEK	1
to open ditch	1
TO THE CREEK	1
TO THE DEER CREEK WATERSHED BY OPEN DITCH AND SUBSTRATE TILE	1
to the ditch, Deer Creek, Wildcat, Wabash, Miss, Cal	1
to the river	1
turley ditch on state road 18	1
underground ditches	1
Wabash	1
WABASH	1
Wabash River	1
WABASH RIVER	2
walbash river	1
water runs toward the creek within one mile of property	1
WATERWAY	1
WE HAVE INVESTED IN WATERWAYS THRU SOIL CONSERVATION SERVICES	1
Wild Cat Creek	1
wildcat	1
Wildcat + Rockcreek	1
WILDCAT CREEK	2
WILDCAT CREEK, WABASH RIVER GULF OF MEXICO	1
Total	267

Appendix B

		Frequency
		111
	no livestock	1
	4 acre pasture with 2 horses	1
	ANIMALS ARE ALL IN A BUILDING	1
	another person does my farming for me	1
	CAFO	1
4 acre pasture with 2 horses ANIMALS ARE ALL IN A BUILDING another person does my farming for me CAFO confined buildings around us DO NOT FEED CATTLE OR HOSS do not have a feedlot do not have a feedlot do not have a food operation Do not have any animals. do not have feed lot DO NOT HAVE FEED LOTS DO NOT HAVE FEEDLOT DO NOT HAVE FEEDLOTS	confined buildings around us	1
	DO NOT FEED CATTLE OR HOSS	1
	do not have a feedlot	1
	do not have a food operation	1
	Do not have any animals.	1
	do not have feed lot	1
	DO NOT HAVE FEED LOTS	1
	DO NOT HAVE FEEDLOT	1
	DO NOT HAVE FEEDLOTS	1
Valid	Do not have feedlots, all water off of buildings flow thru filter strip	1
vallu	DO NOT HAVE LIVESTOCK	1
	do not raise livestock	1
4 acre pasture with ANIMALS ARE AL another person do CAFO confined buildings DO NOT FEED CA do not have a feed do not have a feed Do not have any a do not have feed la DO NOT HAVE FE DO NOT HAVE LI do not raise livesto DO NOT RAISE LI does not apply to r don't have don't have a feed DON'T HAVE A FE Don't have a feed DON'T HAVE A FE DON'T HAVE ANY Don't have cattle o DON'T HAVE FEE DON'T HAVE FEE DON'T HAVE FEE DON'T HAVE FEE	DO NOT RAISE LIVESTOCK	1
	does not apply to my situation	1
	don't have	1
	don't have a feed lot	1
	Don't have a feed lot	1
	DON'T HAVE A FEEDLOT	1
	Don't have a feelot	1
	don't have any feedlots close	1
	DON'T HAVE ANY LIVESTOCK OR FARMLAND	1
	Don't have cattle or feedlot	1
	DON'T HAVE FEED LOTS	1
	Don't have feedlots	1
	don't have livestock	1
	DON'T HAVE LIVESTOCK STRUCTURES	1

2. If the practice is not relevant, please explain why:

don't have that much livestock	1
DON'T HAVE THAT MUCH LIVESTOCK	1
Don't know	1
Don't raise livestock	1
DON'T RAISE LIVESTOCK	1
dont have feed lot	1
FEED LOTS UNDER ROOF	1
half acre, homeowner	1
have ditch area, etc	1
have no cattle	1
HAVE NO FEED LOTS	1
have no feedlots	1
HAVE NO FEEDLOTS	1
have no livestock	1
HAVE NO LIVESTOCK	1
I do not have a feedlot	1
I DO NOT HAVE LIVESTOCK	1
I DON'T HAVE A FEEDLOT	1
I don't have any livestock	1
I don't own farmland in Carroll County	1
I have no animals on my ground except for wild animals	1
I HAVE NO LIVESTOCK	1
I live in a rural residential home, no livestock	1
JUST GRAIN FARM NOT LIVESTOCK	1
maybe	1
MY WATER DOESN'T GO IN A STREAM	1
no animals	3
No animals	1
No Animals	1
NO ANIMALS	2
NO CATTLE, NO FEEDLOT!!	1
no feed lot	1
NO FEED LOT	2
NO FEED LOT OR ANIMALS	1
NO FEED LOT, NO ANIMALS	1

no feed lots2No feed lots1No Feed lots1No Feed lots3no feedlot3No Feedlot2No Feedlot1No Feedlot1No Feedlot1No Feedlot1No feedlot on property1No feedlots3No feedlots3No feedlots1No feedlots2No Feedlots3No feedlots1No feedlots1No feedlots1No Feedlots1No Feedlots1No Feedlots have or running of [illegible]1No FEEDLOTS ON PROPERTY1No FEEDLOTS OR LIVESTOCK1No feedlots.1No livestock2No Livestock2No Livestock1No Livestock and tillable acreage is fallow1No Livestock on VROPERTY1No Livestock No NPOPERTY1No Livestock No NPOPERTY1No Livestock No NPOPERTY1No Livestock Con LAND1No Livestock Con LAND1No Livestock Con NPOPERTY1No Livestock Con LIND1No Livestock Con LIND1 <t< th=""><th></th><th>- 1</th></t<>		- 1
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No livestock outside1No open feedlot on my property1no outside feed lots1NO STEILSE1not a farmer1NOT FEEDING ANYTHING IN A FEDLOT1	NO LIVESTOCK ON PROPERTY; NOT RELEVANT	1
No open feedlot on my property1no outside feed lots1NO STEILSE1not a farmer1NOT FEEDING ANYTHING IN A FEDLOT1	NO LIVESTOCK OR LIVESTOCK FACILITIES	1
no outside feed lots1NO STEILSE1not a farmer1NOT FEEDING ANYTHING IN A FEDLOT1	No livestock outside	1
NO STEILSE1not a farmer1NOT FEEDING ANYTHING IN A FEDLOT1	No open feedlot on my property	1
not a farmer1NOT FEEDING ANYTHING IN A FEDLOT1	no outside feed lots	1
NOT FEEDING ANYTHING IN A FEDLOT 1	NO STEILSE	1
	not a farmer	1
OUR CATTLE DO NOT HAVE ACCESS TO A STREAM 1	NOT FEEDING ANYTHING IN A FEDLOT	1
	OUR CATTLE DO NOT HAVE ACCESS TO A STREAM	1

PROPERTY 1 ACRE LOT	1
property planted CRP program	1
RAISE CORN AND SOYBEANS ONLY	1
Surface water does not flow through feedlot	1
THERE ARE NO ANIMALS ON PROPERTY	1
THERE ARE NO FEEDLOTS IN THIS AREA	1
WE DO NOT HAVE FEEDLOTS	1
we don't have any cattle and we don't have a feed lot	1
WE DON'T HAVE LIVESTOCK	1
WE HAVE FLAT SOIL	1
we have no feed lot	1
WE HAVE NO FEEDLOTS	1
Total	267

Appendix C

		Frequency
		228
	0-2% SCOPES	1
	0-2% SLOPE/	1
	1 ACRE LOT	1
	All tillable acreage is fallow/CRP	1
	already using minimum tillage	1
	another person does my farming for me	1
	CRP program field planted w/ cold weather grasses	1
	Don't know	1
	DON'T NEED	1
	Don't own farmland in Carroll County	1
	dont farm with cover crop	1
	flat ground	1
	FLAT LAND	1
	half acre homeowner	1
Valid	I DO NOT FARM	1
	I DO NOT FARM MY GROUND	1
	I do not farm our land but the tenant does rotate and does nice job of workong the land and plants winter wheat	1
	I do not farm.	1
	I DON'T HAVE ANY EROSION PROBLEMS	1
	I live in a rural residential home, Only have a garden	1
	I LIVE IN TOWN	1
	I rent out fhe farm ground	1
	I rent out the farm land. He uses rotation.	1
	JUST NOT USING IT RIGHT NOW	1
	NO ALL TILLAGE	1
	NO COVER CROPS	1
	No crop land	1
	NO EROSION	1
	NO EROSION!!	1

2. If the practice is not relevant, please explain why:

	_
No Farm land, 3 acre of CRP	1
no flat land	1
no till	1
not farming	1
NOT NEEDED	1
NOT RB0PANG	1
rotation	1
tenant does not practise it	1
time and cost	1
USED WHERE NEEDED	1
Total	267

Appendix D

-		Frequency
		228
	?	1
	all field tile	1
	CATTLE DO NOT HAVE ACCESS TO A STREAM	1
	CRP Program	1
	DO NOT NEED	1
	DON'T HAVE	1
	don't have any open ditching	1
	DON'T KNOW	1
	Don't own farmland in Carroll County	1
	FLAT GROUND	1
	half acre homeowner	1
	HAS FLAT SOIL	1
	I do not farm the land but we have very few ditches	1
	I GUESS OUR COUNTY ELECTED NOT TO USE IT WHEN CLEANING OUR DITCH THIS	1
Valid	SUMMER	
	I have no ditches	1
	I live in a rural residential home, not farming	1
	IN SIRTURUT	1
	Just have the main ditch running through the property.	1
	LIVE IN TOWN	1
	NEVER TRIED IT	1
	no ditch	1
	no ditching	1
	NO OPEN DITCH	1
	NO OPEN DITCHES	1
	no small main channel	1
	NO SMALL MAIN CHANNEL	1
	no stream	1
l	NO STREAMS AROUND PROPERTY	1
	No two stage ditch	1

2. If the practice is not relevant, please explain why:

	L 🔳
takes more space	1
that is a county practice. they maintain regulated drains	1
The land is not that steep	1
The Land is not that steep	1
THERE IS NO DITCH ON THIS PROPERTY	1
THIS WAS VOTED AGAINST, IF I REMEMBER	1
Too small operation	1
water drains through woods and CRP ground	1
we don't have an open ditch on our property	1
we have no open ditches going thru any ground we farms	1
Total	267

Appendix E

2.	lf t	he	practice	is not	relevant,	please	explain why	2
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		Frequency	
		240	
	95% OF MY DITCH BANK SLOPE TOWARD THE FIELD	1	
	am not located near any of the above	1	
	DO NOT FARM NEAR MAJOR STREAMS-CREEKS	1	
	DON'T KNOW ABOUT IT	1	
	Don't own farmland in Carroll County	1	
	FLAT GROUND	1	
	half acre homeowner	1	
	have woods for buffers	1	
	i do not farm the land we do have a wet land that we do not farm	1	
	I live in a rural residential home, I don't have property on a water body in this watershed	1	
	LIVE IN TOWN	1	
	no ditch or streams run by farms we farms	1	
	NO PONDS	1	
Valid	no ponds on property	1	
	no ponds R.S.C.	1	
	No ponds, streams, etc.	1	
	no water	1	
	none of above	1	
	Not a farmer	1	
	not close to any	1	
	not farming	1	
	NOT NEEDED	1	
	security in case of accident	1	
	SEE ABOVE	1	
	water runs in tiles	1	
	we don't have any ponds and streams on our property		
	WE HAVE FLAT GROUND	1	
	Total	267	