West Fork White Water River Ag Pre- and Post survey results

Rating of Water Quality: **Overall,** *how would you rate the quality of water* **in your area?   (1= Poor 2= Okay 3= Good)**

	Total		
	Pre- Mean	Post- Mean	p
a. For canoeing / kayaking / other boating	2.13	2.20	.422
b. For eating fish caught in the water	1.94	2.11	**.041***
c. For swimming	1.85	1.98	.122
d. For picnicking and family activities	2.20	2.29	.244
e. For fish habitat	2.11	2.26	**.062****
f. For scenic beauty	2.40	2.40	.933

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*? **(1= Not a problem 2= Slight problem 3= Moderate problem   4= Severe problem)**

	Total		
	Pre- Mean	Post- Mean	p
a. Contaminated drinking water	1.97	1.70	**.007***
b. Contaminated fish	2.07	1.85	**.044***
c. Loss of desirable fish species	2.11	1.87	**.056****
d. Reduced beauty of lakes or streams	2.07	1.86	**.035***
e. Reduced quality of water recreation activities	2.03	1.75	**.008***
f. Excessive aquatic plants or algae	2.32	1.99	**.003***
g. Fish kills	2.08	1.81	**.015***
h. Odor	1.93	1.70	**.031***

*Shows significance at a .05 level
**Shows significance at a .1 level

General Water Quality Attitudes: **Please indicate your** *level of agreement or disagreement* **with the statements below.**

(1=Strongly disagree 2= Disagree 3=Neutral 4=Agree 5=Strongly agree)

	Total		
	Pre-Mean	Post-Mean	p
a. The economic stability of my community depends upon good water quality.	3.89	3.94	.536
b. Using recommended management practices on farms improves water quality.	4.16	4.23	.264
c. It is my personal responsibility to help protect water quality.	4.18	4.19	.825
d. It is important to protect water quality even if it slows economic development.	3.91	3.80	.175
e. What I do on my land doesn't make much difference in overall water quality.	2.32	2.27	.571
f. Investing in water quality protection puts the farmer at an economic disadvantage.	2.67	2.76	.307
g. Farm management practices do not have an impact on local water quality.	2.04	2.01	.707
h. My actions have an impact on water quality.	3.94	3.99	.346
i. Taking action to improve water quality is too expensive for me.	2.67	2.64	.748
j. It is okay to reduce water quality to promote economic development.	1.96	1.96	.986
k. It is important to protect water quality even if it costs me more.	3.50	3.48	.801
l. I would be willing to pay more to improve lakes, rivers, and streams (for example: through local taxes or fees).	2.80	2.81	.955
m. I would be willing to change management practices to improve water quality.	3.69	3.63	.374
n. The quality of life in my community depends on good water quality in local streams, rivers, and lakes.	3.90	3.88	.761

Types Water Pollutants: Below is a list of types of water pollutants that are generally present in water bodies to some extent. In your opinion, how much of a problem are the following pollutants in your area? (1= Not a problem 2= Slight problem 3=Moderate problem 4= Severe problem)

	Total		
	Pre-Mean	Post-Mean	p
a. Sedimentation / silt	2.52	2.44	.457
b. Nitrate	2.43	2.33	.358
c. Phosphorus	2.31	2.26	.642
d. *E.coli*	2.46	2.46	.988
e. Suspended solids	2.35	2.23	.368
f. Ammonia	2.16	2.02	.276
g. Atrazine	2.04	1.97	.617
h. Low dissolved oxygen	2.19	2.13	.668
i. Turbidity	*See Suspended Solids		

Sources of Water Pollutants: 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? (1= Not a problem 2= Slight problem 3= Moderate problem 4= Severe problem)

	Total		
	Pre-Mean	Post-Mean	p
a. Discharges from industry into streams and lakes	2.41	2.21	**.069****
b. Discharges from sewage treatment plants	2.54	2.32	**.093****
c. Soil erosion from farm fields	2.61	2.47	.109
d. Soil erosion from shorelines and/or streambanks	2.64	2.51	.229
e. Excessive use of lawn fertilizers and/or pesticides	2.35	2.20	.211
f. Improper disposal of used motor oil and/or antifreeze	2.15	1.80	**.002***
g. Improperly maintained septic systems	2.28	2.13	.123
h. Manure from farm animals	2.21	2.15	.539
i. Littering / illegal dumping of trash	2.73	2.61	.201
j. Crop production (non-irrigated)	1.86	1.68	**.037***
k. Animal feeding operations	2.26	1.97	**.006***
l. Urban stormwater runoff (e.g. highways, rooftops, parking lots)	2.32	2.23	.414
m. Stream channel erosion / incision	2.55	2.35	**.062****
n. Removal of streambank vegetation	2.25	2.19	.609

*Shows significance at a .05 level
**Shows significance at a .1 level

Practices to Improve Water Quality: **Please indicate which statement most accurately describes your level of experience with each practice listed below. (1= Never heard of it 2= Somewhat familiar with it 3= Know how to use it, not doing it 4= Currently Doing it)**

	Total		
	Pre-Mean	Post-Mean	p
a. Following a comprehensive nutrient management plan	2.79	2.93	.231
b. Following university recommendations for fertilization rates	2.92	3.17	**.022***
c. Avoiding fall application of manure or nitrogen fertilizer to reduce environmental losses	3.00	3.13	.210
d. Using variable rate application technology for more precise crop production	2.94	3.21	**.009***
e. Considering location and soil characteristics to minimize leaching or runoff	2.98	3.13	.184
f. Diverting surface water away from feedlots	2.75	2.86	.241
g. Constructing a waste storage facility	2.48	2.56	.323
h. Using heavy use area protection for waste management	2.35	2.40	.572
i. Applying manure so that nutrients are being applied within university recommendations	2.44	2.67	**.025***
j. Following an approved grazing plan to maintain grass quality and reduce erosion	2.76	2.98	**.034***
k. Establishing a pasture or hay crop	3.22	3.23	.935
l. Establishing vegetation to stabilize streambanks and/or shorelines	2.88	2.98	.303
m. Installing a sediment basin to collect and store debris and sediment	2.44	2.54	.287
n. Properly disposing of agricultural or household waste	3.53	3.52	.877
1. Cover crops	3.18	3.33	.187
2. Fencing to exclude animals from riparian and critical areas	3.33	3.49	.129
3. Grassed Waterways	3.75	3.84	.157
4. Regular Servicing of Septic Systems	3.38	3.57	**.085****

Information Sources: **People get information about water quality from a number of different sources. To what extent** *do you trust the organizations listed below as a source of information about water quality?* **(1= Not at all 2=Slightly 3=Moderately 4= Very Much)**

	Total		
	Pre-Mean	Post-Mean	p
a. The Whitewater River Initiative Group	2.88	3.00	.343
b. Soil and Water Conservation District (SWCD)	3.47	3.45	.783
c. Natural Resources Conservation Service (NRCS)	3.34	3.38	.587
d. Purdue University Extension	3.27	3.31	.633
e. Indiana State Department of Agriculture (ISDA)	2.96	3.05	.323
f. Indiana Department of Natural Resources (IDNR)	3.16	3.07	.303
g. Indiana Department of Environmental Management (IDEM)	2.73	2.75	.848
h. Environmental groups	2.07	1.95	.222
i. Farm Bureau	2.75	2.76	.888
j. Fertilizer representatives	2.23	2.64	**.000***
k. Crop consultants	2.55	2.77	**.023***
l. Other landowners / friends	N/A	2.91	N/A

*Shows significance at a .05 level