

Shiawasse Watershed Survey Results
Jones Creek 10+%

Responses to Survey
 10 out of 100 2 returns

with 1 being most important and 5 being the least important:

Rank the following goals with a score of 1 to 5,	1	2	3	4	5	Did not rank
Remove paper/trash/debris in the river and tributaries to improve its appearance	3	1	3		3	
Better control soil erosion and limit sediments entering the water.	4	3	2		1	
Improve habitat conditions for fish and wildlife in the water	5	1	2	2		
Minimize excessive flows that cause flooding, bank erosion and habitat loss	5	2		2	1	
Encourage investments in land along water for recreation/wildlife protection	1	1	5	1	2	
Expand public education about the benefits of protecting the SRW	2	5		1	1	
Better control sources of fertilizer reaching the Watershed & the Great Lakes	4	2	4			
Remove sources of human waste in the Watershed that threaten public health	7	3				
Protect the quality and accessibility of drinking water (wells)	7	2			1	
Increase community planning to address development & protection of water qual	4		3	1	2	

Are there any other goals that you feel should be included in this list? Please indicate any additional goals you would like to see added. How would you rank them from 1 (most important) to 5 (least important)?

What issues concerning the management of the Shiawassee River Watershed are most important to you?

What is the single most important improvement to the Watershed and its tributaries that you would like to see?

What types of information about the Shiawassee River Watershed interest you most? (Check as many as apply)

Water quality	<u>9</u>	How I can volunteer to help restore Watershed	<u>3</u>
Bacteria levels	<u>6</u>	How businesses can prevent pollution	<u>4</u>
Fish and wildlife	<u>8</u>	How homeowners can help prevent pollution	<u>5</u>
Parks and public recreation areas	<u>5</u>	Other	<u> </u>

Which of the following is the best approach to keep you informed regarding the progress in developing a plan to restore the Shiawassee River Watershed?

Public meetings/workshops	<u> </u>	Direct mailings to your home or business	<u>9</u>
Newspaper articles	<u>3</u>	Community newsletters	<u>5</u>
Cable TV	<u>1</u>	Other (specify) . EMAIL	<u> </u>
Web page	<u>3</u>		

Shiawassee Watershed Survey Results
Lakes 11+%

Responses to Survey
 18 out of 160 2 returned

with 1 being most important and 5 being the least important:

Rank the following goals with a score of 1 to 5,	1	2	3	4	5	Did not rank
Remove paper/trash/debris in the river and tributaries to improve its appearance	7	2	5	4		
Better control soil erosion and limit sediments entering the water.	8	4	2		2	2
Improve habitat conditions for fish and wildlife in the water	7	1	6	2		2
Minimize excessive flows that cause flooding, bank erosion and habitat loss	4	6	4	1	1	2
Encourage investments in land along water for recreation/wildlife protection	5	5	2	2	3	1
Expand public education about the benefits of protecting the SRW	6	3	2	2	2	3
Better control sources of fertilizer reaching the Watershed & the Great Lakes	10	2	2	1		3
Remove sources of human waste in the Watershed that threaten public health	16	1			1	
Protect the quality and accessibility of drinking water (wells)	13	3			1	1
Increase community planning to address development & protection of water qual	5	3	3	3	3	1

Are there any other goals that you feel should be included in this list? Please indicate any additional goals you would like to see added. How would you rank them from 1 (most important) to 5 (least important)?

What issues concerning the management of the Shiawassee River Watershed are most important to you?

What is the single most important improvement to the Watershed and its tributaries that you would like to see?

What types of information about the Shiawassee River Watershed interest you most? (Check as many as apply)

Water quality	<u>14</u>	How I can volunteer to help restore Watershed	<u> </u>
Bacteria levels	<u>11</u>	How businesses can prevent pollution	<u>5</u>
Fish and wildlife	<u>12</u>	How homeowners can help prevent pollution	<u>5</u>
Parks and public recreation areas	<u>3</u>	Other	<u> </u>
			<u> </u>
			<u> </u>

Which of the following is the best approach to keep you informed regarding the progress in developing a plan to restore the Shiawassee River Watershed?

Public meetings/workshops	<u>2</u>	Direct mailings to your home or business	<u>6</u>
Newspaper articles	<u>11</u>	Community newsletters	<u>4</u>
Cable TV	<u>4</u>	Other (specify) . Posters in local businesses, Flood Control	<u>2</u>
Web page	<u>4</u>		

Shiawassee Watershed Survey Results
Random 9%

Responses to Survey
 9 out of 100 0 returned

with 1 being most important and 5 being the least important:

Rank the following goals with a score of 1 to 5,	1	2	3	4	5	Did not rank
Remove paper/trash/debris in the river and tributaries to improve its appearance	1	3	3			2
Better control soil erosion and limit sediments entering the water.	1	2	3	1		2
Improve habitat conditions for fish and wildlife in the water	1	2	4			2
Minimize excessive flows that cause flooding, bank erosion and habitat loss	1	2	4	1	1	
Encourage investments in land along water for recreation/wildlife protection	2	1	1	1	2	2
Expand public education about the benefits of protecting the SRW	1	2	3		1	2
Better control sources of fertilizer reaching the Watershed & the Great Lakes	3	3	1	1	1	
Remove sources of human waste in the Watershed that threaten public health	5	2	1		1	
Protect the quality and accessibility of drinking water (wells)	7	1			1	
Increase community planning to address development & protection of water qual	2	1	3	3		

Are there any other goals that you feel should be included in this list? Please indicate any additional goals you would like to see added. How would you rank them from 1 (most important) to 5 (least important)?

What issues concerning the management of the Shiawassee River Watershed are most important to you?

What is the single most important improvement to the Watershed and its tributaries that you would like to see?

What types of information about the Shiawassee Watershed interest you most? (Check as many as apply)

Water quality	<u>7</u>	How I can volunteer to help restore Watershed	<u>1</u>
Bacteria levels	<u>5</u>	How businesses can prevent pollution	<u>3</u>
Fish and wildlife	<u>5</u>	How homeowners can help prevent pollution	<u>3</u>
Parks and public recreation areas	<u>3</u>	Other	<u></u>

Which of the following is the best approach to keep you informed regarding the progress in developing a plan to restore the Shiawassee River Watershed?

Public meetings/workshops	<u>1</u>	Direct mailings to your home or business	<u>5</u>
Newspaper articles	<u>6</u>	Community newsletters	<u>2</u>
Cable TV	<u>1</u>	Other (specify) . local news	<u></u>
Web page	<u>1</u>		<u></u>

Shiawassee Watershed Survey Results
Shiawassee River 16+%

Responses to Survey

16 out of 100 2 returns

with 1 being most important and 5 being the least important:

Rank the following goals with a score of 1 to 5,	1	2	3	4	5	Did not rank
Remove paper/trash/debris in the river and tributaries to improve its appearance	5	3	2	2	3	1
Better control soil erosion and limit sediments entering the water.	5	6	1	2	1	1
Improve habitat conditions for fish and wildlife in the water	6	4	2	1	3	
Minimize excessive flows that cause flooding, bank erosion and habitat loss	4	7	1	1	2	1
Encourage investments in land along water for recreation/wildlife protection	4	1	1		9	1
Expand public education about the benefits of protecting the SRW	3	2	6	3	2	
Better control sources of fertilizer reaching the Watershed & the Great Lakes	7	4	1	1	2	1
Remove sources of human waste in the Watershed that threaten public health	11	1			4	
Protect the quality and accessibility of drinking water (wells)	8	4		1	3	
Increase community planning to address development & protection of water qual	3	4	4	3	2	

Are there any other goals that you feel should be included in this list? Please indicate any additional goals you would like to see added. How would you rank them from 1 (most important) to 5 (least important)?

What issues concerning the management of the Shiawassee River Watershed are most important to you?

What is the single most important improvement to the Watershed and its tributaries that you would like to see?

What types of information about the Shiawassee Watershed interest you most? (Check as many as apply)

Water quality	14	How I can volunteer to help restore Watershed	6
Bacteria levels	13	How businesses can prevent pollution	4
Fish and wildlife	10	How homeowners can help prevent pollution	7
Parks and public recreation areas	5	Other	

Which of the following is the best approach to keep you informed regarding the progress in developing a plan to restore the Shiawassee River Watershed?

Public meetings/workshops	1	Direct mailings to your home or business	13
Newspaper articles	6	Community newsletters	4
Cable TV	4	Other (specify) _____	
Web page	2		

Shiawassee Watershed Survey Results
Yellow River 35%

Responses to Survey

14 out of 40 1 returns

with 1 being most important and 5 being the least important:

Rank the following goals with a score of 1 to 5,

- Remove paper/trash/debris in the river and tributaries to improve its appearance
- Better control soil erosion and limit sediments entering the water.
- Improve habitat conditions for fish and wildlife in the water
- Minimize excessive flows that cause flooding, bank erosion and habitat loss
- Encourage investments in land along water for recreation/wildlife protection
- Expand public education about the benefits of protecting the SRW
- Better control sources of fertilizer reaching the Watershed & the Great Lakes
- Remove sources of human waste in the Watershed that threaten public health
- Protect the quality and accessibility of drinking water (wells)
- Increase community planning to address development & protection of water qual

	1	2	3	4	5	Did not rank
Remove paper/trash/debris in the river and tributaries to improve its appearance	3	5	1	1	4	
Better control soil erosion and limit sediments entering the water.	6	5	2	1		
Improve habitat conditions for fish and wildlife in the water	11	1	2			
Minimize excessive flows that cause flooding, bank erosion and habitat loss	4	4	4	1	1	
Encourage investments in land along water for recreation/wildlife protection	2	6	3		3	
Expand public education about the benefits of protecting the SRW	6	3	3	1	1	
Better control sources of fertilizer reaching the Watershed & the Great Lakes	6	2	4	2		
Remove sources of human waste in the Watershed that threaten public health	14					
Protect the quality and accessibility of drinking water (wells)	11	1	1		1	
Increase community planning to address development & protection of water qual	5	3	4		1	1

Are there any other goals that you feel should be included in this list? Please indicate any additional goals you would like to see added. How would you rank them from 1 (most important) to 5 (least important)?

What issues concerning the management of the Shiawassee River Watershed are most important to you?

What is the single most important improvement to the Watershed and its tributaries that you would like to see?

What types of information about the Shiawassee River Watershed interest you most? (Check as many as apply)

Water quality	13	How I can volunteer to help restore Watershed	6
Bacteria levels	13	How businesses can prevent pollution	6
Fish and wildlife	12	How homeowners can help prevent pollution	9
Parks and public recreation areas	4	Other	

Which of the following is the best approach to keep you informed regarding the progress in developing a plan to restore the Shiawassee River Watershed?

Public meetings/workshops	2	Direct mailings to your home or business	10
Newspaper articles	2	Community newsletters	5
Cable TV	1	Other (specify) . Local News (2), email (1)	3
Web page	3		

Are there any other goals that you feel should be included in this list? Please indicate any additional goals you would like to see added. How would you rank them from 1 (most important) to 5 (least important)? (ranking)

- (SJ) I would like to see the flooding issue in Gaines Township addressed.(5)
- (SJ) Constantly monitor both point and non-point pollution sources by testing water quality on a regular basis. (1)
- (SJ) Implement a management plan to prevent future damage to the riparian zones of the river and encourage the planting of more riparian zones.(1)
- (SJ) Remove blockage in county field drains that cause flooding and excessive soil erosion. (1)
- (SJ) You covered them well, I think.
- (SJ) Check the river in Agrentine Township at Seymour Road. Looks like trees were cut and felled into river. Also, looks like an auto junkyard on riverbank and wonder if seepage of gas and oil into river.
- (SL) Repairing of wetlands and removal of large buildings, including removal of fill dirt. (1)
- (SL) You build multimillion dollar plants for waste water to not go into our waters and it has happened several times. This is my biggest complaint with you folks. (1)
- (SL) Every spring on Murray Road it floods - fix it! (1)
- (SL) Limits on noise pollution from watercraft (2)
- (SL) Chemical from industries, plants, certain fertilizers from farmers fields entering water, killing fish and fowl.
- (SL) Fine and penalize companies/contractors/developers immediately upon violation. Make them prove in court that they were doing no harm before refunding part of the \$ of fine/penalty.
- (SL) Hire an ad agency to develop a campaign such as "Shiawassee River Watershed Preservation" to set up education and support groups in towns and cities along the river to pay local attention to the issues raised in your survey. Strong focus should be on school involvement and local newspapers. Foundation funds may be available for such a project. (1)
- (SR) Finish drain ditches on Duffield Road, south of Silver Lake Road. Huge water problem!! (1)
- (SR) Remove fallen trees in river that cause flow problems and canoeing obstacles.(2)
- (SS) The main thing and concern is the sewage disposal plans working properly (the rest will take care of itself). (1)
- (SS) Keep water at a higher level in spring and summer by not dumping large amounts out when we are not getting rain. This alone will make the river more accessible for recreation.(2)
- (SS) Run off of salt in the winter through the storm drains. (1)
- (SS) Check the heavy metal content of the river and mercury and dioxins. (1)
- (SS) Send newsletters out once a month or every other month to everyone on postal route.(2)
- (SS) It would be nice to have additional benches in public areas - especially near children's play grounds.
- (SS) Keep the water level at a consistent height. (1)
- (SS) Eliminate if possible, the weed problem in the Linden Mill Pond.
- (SY) Fix the bridge on Lovejoy Road - it should continue to be a through-way for area traffic.(1)
- (SY) The county road commission needs to attend to the ditches. Each time the road is graded it seems to end up in the ditch. To me this causes further new dirt erosion into the river and also prevents proper draining.(1)
- (SY) Enforce wetlands protection (Yellow River), ie, filling and dredging, backfilling, destroying protected plants. (1)
- (SY) Prosecute violations of wetlands protection act. (1)
- (SY) Our problem in our lake is the silt clogging up the river inlet (Cardinal Lake formerly known as Lake Mud). (1)

- (SY) Also, there is heavy beaver activity on both Yellow River and the river outlet - just before Duffield Road.
- (SY) Control of invasive species; aquatic and non aquatic life. (2)
- (SY) Control of beaver dams. (4)
- (SY) Weed control (1).
- (SY) Control of beaver activity - building several dams and taking down trees and bushes. (1)
- (SY) Growth of weeds in ditches and lakes to provide max flow and flush (a lot of heavy growth - are also not native).
- (SY) Remove downed trees for better access. Cannot get through a lot of spots on the river anymore.

What issues concerning the management of the Shiawassee River Watershed are most important to you? (ranking)

- (SJ) Well water quality, roads and yards flooding due to lack of adequate drainage and improper planing and over-development.
- (SJ) Developments in low areas that cause flooding after they are completed.
- (SJ) Water quality (hazardous waste, fertilizers) soil erosion/stream bank stabilization/run-off waters.
- (SJ) Clean water and removing water flow restrictions that cause flooding.
- (SJ) Water quality and erosion/silt control.
- (SJ) Keeping pollution free.
- (SJ) Enforcement.
- (SL) Over population and excess home construction and destruction of wetlands.
- (SL) Weed control in Lobdell, Bennett and Hoisington Lakes.
- (SL)(SR) Clean water.
- (SL)(2) You need to manage the sewer going into our watershed.
- (SL) The old Dauner drain which still discharges into Lake Fenton.
- (SL) Industrial pollution and chemicals for lawn care resulting from run off.
- (SL) All of them; each one plays an important part to the waterway.
- (SL) Having it exist 50, 100 and 150 years from now.
- (SL) It is important that state laws and regulations regarding the river watershed be publicized so that we can see how our county measured up - a report card.
- (SR) Projects to ensure clean water.
- (SR) Pollution and trash.
- (SS)(2) Pollution.
- (SS) I've seen a great deal of deterioration of the river since sewer plant on Hogan Road was built.
- (SS) Remove sources of fertilizers (home and farm) and human waste from pump stations and storm drains.
- (SS)(SY) Fish and wildlife.
- (SS) The dumping of raw human waste by the treatment plants and by septic cleaning companies.
- (SS) The health of my family from how dirty it is.
- (SS) Proper control of waste water treatment being added to the rivers.
- (SS) Limit residential development on river front property.
- (SS) Keeping the water clean and accessible.

- (SS) Consistent water level height that would allow boats to get under the Ripley Road bridge.
- (SY) Getting the river water as clean as possible. I am sure this is a far reaching goal - but it would be great to have a clean river.
- (SY) Filling, Dredging, Altering protected wetlands associated with tributaries!!!
- (SY) Awareness of any projects, improvements and progress made - by mailings.
- (SY) Cleaning up river from debris such as trees, also testing for bacteria and preserving wildlife.
- (SY) The quality of the water now and in the future for wildlife and our children.
- (SY) The rivers/lakes we live on are filling with dirt and weeds. The lake is shrinking in size due to these.
- (SY) All.
- (SY) Conditions for fish, wildlife, human waste.

What is the single most important improvement to the Watershed and its tributaries that you would like to see? (ranking)

- (SJ) Limit pollution.
- (SJ) Repair/maintaining current drains.
- (SJ) Protect existing riparian zones and add to or enhance other areas in regards to riparian zones.
- (SJ) Stop run off contamination.
- (SJ) Monitoring conditions and plan a management strategy to increase river health. Erosion and silt ruin the beds for recreation and river health.
- (SJ) Being able to freely canoe from Fenton to Byron and beyond.
- (SJ) Keeping junk out of river and tributaries, including farm run offs and sewers.
- (SJ)(SY)(2) Water quality.
- (SL) Repair and prevent development of wetlands.
- (SL) Pave all streets around lake.
- (SL) Stop municipal waste (untreated) from entering the Shiawassee Watershed.
- (SL) Control the waste run off.
- (SL) Control sources of fertilizer reaching lakes and rivers.
- (SL) Less development, such as 50' green belt, leave habitat along the river!
- (SL) Eliminate water pollution.
- (SL) The Shiawassee is a big river, its so sad that its polluted. The most important; getting back to clean water, the way it was.
- (SL) No more run off/drainage from any source other than an act of God.
- (SL) Although I gave it a "2" above, I think ongoing and thorough clean-up is so important as it involves volunteers and the community becomes aware of the need to respect and preserve our waterways.
- (SR) Clean water.
- (SR) Improving the quality of drinking water (wells).
- (SS) Remove sources of human waste in the watershed that threaten public health.
- (SS) Fertilizer going into the water.
- (SS) Pollution-flooding.
- (SS) We own a great deal of land on both sides of the river. Mainly keep the water as usable as possible.
- (SS) If the river were cleaner and higher I think it would be used more and therefore cared for more.

- (SS) The removal of trash and debris in the river.
- (SS) It to be clean where I don't have to worry when my dog swims in it what she will bring back or if we step in it what we'll get.
- (SS) Better control of erosion.
- (SS) Manage the mussels/weeds!
- (SY) Enforcement of violations for filling, dredging, removing vegetations.
- (SY) Improving the water flow by dredging where practical.
- (SY) To keep it flowing and up to bank level = full.
- (SY) Controlling what ends up in our river. Monitoring factories and agricultural chemicals.
- (SY) Public health.
- (SY) Because of lack of funding, this area hasn't been taken care of in years. Flow and flushing is what is important to improve water quality.
- (SY) Stop human waste.

500 Survey's were sent out, of those 7 were returned as undeliverable.

67 Total surveys were returned.

There was a 13+% response to the survey overall