

**2015 Bradford County Hazard Mitigation Plan - Municipal Project Opportunities**

Municipality	Community Rank	Project Name	Mitigation Measures		Hazard Mitigated	Total Cost
			Description of Problem to be Solved	Project Description		
Albany Township	None	Bowman Creek/Rd. 220	Flooding issues	Strayeter creek; stop erosion	Flooding	\$40,000
Albany Township	None	Sayman Road	Beaver swamp	Drainage needed	Flooding	\$85,000
Albany Township	None	Heath Hill Reconstruction	Wash out of road side due to heavy clay concentration	Replace clay with masterpiece pee attached list	Flooding	\$285,000
Armenia Township	1	Mountain Avenue Roll-off Protection	Decrease the risk of large vehicles rolling over the hillside.	Municipality wishes to place a 4 foot protective stone wall along a one mile length of Mountain Avenue for the purpose of protecting vehicles which are at risk of roll-off.	Transportation	\$750,000
Armenia Township	2	Carnwright Road Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$23,000
Armenia Township	3	Mountain Avenue Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$28,000
Armenia Township	4	Twin Sluice Road Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$26,000
Armenia Township	5	Twin Sluice Road Flood Protection II	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$5,000
Armenia Township	6	Scott Road Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$9,000
Armenia Township	7	Swamp/Carnwright Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$22,000
Armenia Township	8	Swamp Road Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$15,000
Armenia Township	9	Douglas Road Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$26,000
Armenia Township	10	Dewey Hollow Road Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$28,500
Armenia Township	11	Alba Mt. Road Flood Protection	Decrease wash outs and ice build up to increase public safety.	Sluice pipe installation and road elevation	Flooding	\$28,500

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Asylum Township	1	VFW Road Washout	Creek adjacent to VFW is endangering roadway by eroding the creek bank.	Reinforce approximately 150 feet of the creek bank with stone riprap to a height of 15 feet.	Flooding	\$15,000
Asylum Township	2	Short Road and Uhdey Road Project	Increase the flow capacity of storm water pipes.	Replace 2 sluice pipes on Short Road with larger pipes and add a 2nd pipe to existing pipe	Flooding	\$20,000
Asylum Township	3	Barrett Road Project	Increase the flow capacity of storm water pipes.	Increase the diameter of 3 sluice pipes.	Flooding	\$15,000
Asylum Township	4	Moody Road Project	Increase the flow capacity of storm water pipes.	Increase the diameter of 2 sluice pipes	Flooding	\$15,000
Asylum Township	5	O'Brian Road Bridge Project	Decrease scouring at bridge abutments	Replace the washed out materials with new riprap materials	Flooding	\$1,500
Athens Borough	None	Susquehanna Riverbank/South Main Street	The river water over tops the riverbank causing minor flooding to ten residences	Install earthen material to the low lying areas of the riverbank to prevent the river water from over topping the riverbank	Flooding	\$200,000
Athens Borough	None	Susquehanna Riverbank Stabilization Amendment to mitigation form 12/09/11	The Susquehanna Riverbank sustained severe erosion compromising the integrity of infrastructure, businesses, and residences	To install R-7 stone/rip rap to stabilize the riverbank	Flooding	\$1,500,000
Athens Borough	None	Chemung Levee Certification	The Chemung Levee needs to be in compliance with the NFIP Code of Federal Regulation a Title 44, Ch.1 Section 65.100 (44CFR65.1) Protected areas of the Borough will change to SFHA AE causing flood insurances rates to increase for residents	To certify the Levee to become compliant with the NFIP Code of Federal Regulation	Flooding	\$500,000
Athens Borough	None	Municipal Building	Foundation settlement issues caused by flooding and ground water	Bore holes and pump concrete under the foundation to lift building.	Flooding	\$600,000
Athens Township	1	Buyout of Severe Repetitive Loss Properties	Purchase severe repetitive loss properties in the flood plain.	Purchase the properties and then demolish the structures to make open space land.	Flooding	TBD

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Athens Township	2	Tutelow Creek Road Culvert Replacement and Stabilization	Decrease flooding of structures, roadway washout and accessibility issues for first responders	Replace the culverts and stabilize the creek.	Flooding	\$650,000
Athens Township	3	Highland Drive Bridge Replacement	Undersized bridge causes flooding affecting neighboring structures and road closures.	Install properly sized bridge and culverts to ease flooding and risk to life and property, increasing public safety.	Flooding	\$1,100,000
Athens Township	4	Tom Taylor Bridge Replacement	Undersized culverts cause flooding of roadway and washouts which limit access	Install properly sized culverts to eliminate flooding and reduce erosion.	Flooding	\$700,000
Athens Township	5	Wildwood Road Elevation and Repair	Roadway floods in 2 locations and traps 22 families on this dead end road.	Raise the road in 2 places to allow ingress and egress during flood events to reduce risk to life and property.	Flooding	\$1,500,000
Athens Township	6	Round Top Road Bridge and Creek Improvements	Bridge does not handle water in major flooding events. Creek has erosion problems and needs stabilized.	Replace the bridge with properly sized aluminum box culvert and stabilize with riprap.	Flooding	\$1,300,000
Athens Township	7	Signalization of Route 220 and Route 199 and Wolcott Hollow Road	High vehicle accident area with transportation hazmat concerns.	Install traffic signals and turning lanes.	Transportation	Unknown
Athens Township	8	Orcutt Creek Stabilization	Stabilize dynamic creek to reduce structural and property damage and possible loss of life.	Bradford County Conservation District has done a full creek survey to show areas needing to be stabilized.	Flooding	TBD
Athens Township	9	Satterlee Creek Stabilization	Possible Regional Project. Satterlee Creek is a very unstable creek that carries large amounts of gravel and causes an extreme amount of erosion.	The Satterlee Creek Watershed Association has engineered the stabilization of the entire creek but the project has not been completed due to a lack of funds. The project would stabilize the creek to protect life and property and increase public safety.	Flooding	Unknown

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Burlington Township	None	Shephand Hill Rd-Ditch	Road washes out with heavy rain-Ditch erodes and collapses	Excavate and Line ditch with Erosion Control Material	Flooding	\$54,390
Burlington Township	None	Lynch Rd. Pipe	Pipe is too small. Road washes out with heavy rain	Replace Pipe- Place Rip Rap	Flooding	\$7,930
Burlington Township	None	Buttermilk Falls Rd. Pipe #2	Pipe is too small. Road washes out with heavy rain	Replace Pipe- Place Rip Rap	Flooding	\$9,380
Burlington Township	None	Buttermilk Falls Rd. Pipe #1	Sluice Pipe not large enough-Washes out road with heavy rain	Replace Pipe- Place Rip Rap	Flooding	\$18,510
Canton Borough		Mill Creek Debris Clean Up	This creek causes wash out and flooding of properties due to heavy rain.	Debris clean up of Mill Creek	Flooding	TBD
Canton Borough		Remove Manmade Levee	Property owners have placed dirt to form a man-made levee that causes flooding to north side residents and businesses.	Remove the man-made levee	Flooding	TBD
Canton Borough		Springbrook Debris Clean Up	Debris cleanup and possible beaver mitigation	Debris clean up of Springbrook area.	Flooding	TBD
Canton Borough		Towanda Creek Debris Clean Up	Residents and businesses flood in this area due to debris in the creek	Debris clean up of Towanda Creek	Flooding	TBD
Canton Township	None	Stereing Hill Pipe	Pipes are partially plugged need to be replaced size of pipe insufficient handling water	Increase diameter of pipe	Flooding	\$5,000
Canton Township	None	Upper MT Rd. Pipe	Pipes are partially plugged need to be replaced size of pipe insufficient handling water	Increase diameter of pipe	Flooding	\$5,000
LeRaysville Borough	1	Gehring	Heavy rain floods road on route 467 and main street	Install larger drain pipe to connect to existing drain pipe on main street	Flooding	\$5,000
LeRaysville Borough	2	Hotel Main Street	Decrease stormwater runoff on main street	Clean drain pipe and replace as necessary	Flooding	\$15,000
LeRaysville Borough	3	Preston	Decrease stormwater runoff on East street	Install drain pipe along East Street	Flooding	\$15,000
Litchfield Township	2	Park Hollow-Litchfield	Two stream pipes under roadway need to be enlarged or Box Bridges installed	Culverts under roadway not large enough to carry flows	Flooding	\$50,000

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Litchfield Township	2	Grimley Rd.	Stream culvert too small to carry stream flow- when water backs up roadway erosion occurs	Install large pipe to carry stream flow	Flooding	\$25,000
Litchfield Township	3	Vawtce Hill Rd.	Stream Pipe to Vaustea Hill is corroded and deteriorating	Coat existing pipe with concrete liner to preserve life span of pipe	Flooding	\$75,000
Monroe Township	1	Barrett Road	Pipe too small need another pipe	Putting another pipe in and adding guard rails	Flooding	\$3,800
Monroe Township	2	Millstone Rd.	Need 200 ton rock	Side of road washing only	Flooding	\$10,000
Monroe Township	3	Schrader	Road washing away	Put rip rap stone to save the road	Flooding	\$45,000
Monroe Township	3	Bull Run	When flood comes cost about \$40,000 to \$50,000 to fix	Need big rocks	Flooding	\$50,000
Monroe Township	4	Gardnel Rd.	Need another pipe beside the one that cannot take the water when we have a flood or flash flood	Put another pipe beside the one that is already there	Flooding	\$1,000
Monroe Township	5	Brocktown	Corner washes out	300 tons of rip rap stone to protect the road	Flooding	\$8,000
Monroe Township	6	South Branch/ Kellog Rd.	Upper end by bridge washes out	Needs rip rap stone to save the road	Flooding	\$3,500
Monroe Township	7	Wikham Falls	Need second to carry over flow on flood and flash floods	Put in second pipe down by terry residence needs a bigger pipe	Flooding	\$20,000
Monroe Township	8	Woodside	One pipe on Towanda Township line One pipe on Monroe Township line	Two pipes to be taken out and replace with one	Flooding	\$2,500
Monroe Township	9	Brookside	Side of road needs to be cleared from bush on small trees	Put rip rap stones to protect the road	Flooding	\$35,000
North Towanda Township	1	Rt 6 Traffic Control Project	Rt 6 is an open access roadway in North Towanda. As this community has grown and local demographics have changed roadway use and congestion has greatly increased. Intersections in high-use areas need traffic control devices to reduce probability of serious MVC's or loss of life	Traffic control devices need to be installed at the intersections of Hospital Dr and Rt6 and at Hillcrest Dr and Rt6 near the North Towanda Fire Department Building	Transportation Accidents	\$20,000

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North Towanda Township	2	Rt 220 Overpass Drainage	Water drains from Rt 6 overpass of Pine Valley Rd. contribute to flood conditions at the overpass location flooding and closing Pine Valley Road- Rt 6 creates a dam in valley bottom- Existing creek and over flow devices not adequate to flow volume	Re-design of overpass drainage system- install corrections	Flooding	\$5,000,000
North Towanda Township	3	North Sugar Creek Rd. #1	Sugar Creek Road at this location scowers and washes out earth embankment and roadway pavement	Install piling at Creek bed- stabilize soil and back-fill	Flooding	\$500,000
North Towanda Township	3	Grangee Hill Rd. project	Grangee Hill Rd. is on a steep incline-erosion of ditches and road surface frequently occur at times of heavy rain or flash flood conditions	Roadway needs ditching and rebuild for better drainage	Flooding	\$1,000,000
North Towanda Township	4	North Sugar Creek Rd. #3	Roadway and embankment slide into Sugar Creek	Shore and secure soil- Remove existing soil and replace with large rich-base and back-fill	Flooding	\$300,000,000
North Towanda Township	4	Pine Grove Rd. Sluice	Sluice pipe under roadway too small to carry volume of run-off water	Install 48 inch sluice pipe to replace existing 36 inch pipe	Flooding	\$20,000
North Towanda Township	5	North Sugar Creek #2	Erosion from Sugar Creek endangering Residential property	Remove gravel bar in creek to return channel to original flow pattern	Flooding	\$200,000
Pike Township	None	Pond Brook Rd Project	Sluice pipe providing drainage at location is too small to flow volume of water generated	Replace sluice pipe with large pipe to facilitate flow required	Flooding	\$8,000
Pike Township	None	Ed Sell Rd Bridge	Bridge floods over at times of significant rain fall- especially in flash flooding conditions	Modify/replace existing bridge structure at higher elevation so to be above "usual" high water levels	Flooding	\$500,000

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Pike Township	4	Helly Hill Project	Roadway steep and poorly drained- too narrow for safe travel in inclement weather	Requires installation of new sluice pipe to drain run-off from roadway prior to steep curve and existing roadway through curves need widening and ditching to flow water away from residents and generally keep roadway from keeping or washing	Flooding	\$100,000
Pike Township	3	Hicks Ave. Project	Existing sluice pipe too small to flow volume of water generated by storms	Replace existing eight foot sluice with large (twelve foot) sluice pipe- adjust roadway and adjust stream-bed accordingly	Flooding	\$20,000
Pike Township	2	Saw Mill Rd Project	Sluice Pipe too small to flow volume of water after storms	Replace sluice pipe with larger pipe to increase capacity- adjust stream bed on both side of saw-mill Rd accordingly	Flooding	\$15,000
Pike Township	1	Hollow Rd Stream Project	Creek bed filled with gravel and stone- stream has no depth- existing sluice pipes too small for flow	Dredge stream-bed to return to orginial depth-improve flow accesss to sluice	Flooding	\$15,000
Ridgebury Township	None	Bentley Creek Flood Control- Centerville to Wellsburg line	Decrease impact of flooding in this area.	Bank rehabilitation, bank replacement, and gravel bar removal	Flooding	\$20,000
Ridgebury Township	None	Green Mountain Road Washout	Road washes out after heavy rain	Remove large rocks from ditch and recut ditch	Flooding	None
Rome Township	1	Dry Run Road	Prevent erosion during flooding events.	Repair and stabilize the stream bank	Flooding	\$9,600
Rome Township	2	Taylor Hill Road	Prevent erosion during flooding events.	Repair and stabilize the stream bank	Flooding	\$1,370
Rome Township	3	Buck Road Stream	Prevent erosion during flooding events.	Repair and stabilize the stream bank	Flooding	\$1,060

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Sayre Borough	None	Sayre Flood Protection Project (levee and bridge) Repairs	2011 flood waters began flowing onto the Sayre Bridge, down East Lockhart St and onto properties adjacent to that street in the hours prior to the river topping the levee. The area adjacent to and north and south of the bridge are at least 1 foot lower than the average height of the levee (766 feet)	Correction of the problem by (1) adding material to the low points adjacent to the bridge and investing potential solutions to prevent flood waters flowing onto the bridge during extremely high water events. It must be noted that this is a project that is still in initial discussion and no RFPs, engineering studies, etc., have been conducted.	Flooding	Unknown
Sayre Borough	None	Oliver Lane Pump Station Repairs	Ground water pump station was severely damaged during September 2011 flood event when river topped the levee. Pump station electrical/electronic equipment was damaged and/or destroyed	The project consists of completing final design, bid and construction services required to raise the floor of the pump station, including pump motors and controls, to a level approximately two feet above the top of the levee. The station will be equipped with new controls, HVAC system, electrical system, and emergency generator.	Flooding	\$1,043,000
Sayre Borough	None	Sayre Flood Protection Project (Levee) Repairs	2011 flood eroded and damaged the Sayre levee. USACE completed one phase of repairs and now proposes additional work to complete repairs	Rehabilitation of the Sayre Flood Protection Project (levee), consisting of repairs to levee slopes, replacement of levee access stairs	Flooding	\$240,000



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Sayre Borough	None	Cayuta Creek Sewer Force Main Project	Approximately a 500 foot section of Cayuta Stream is severely eroded due to high intensity storms and related stream flow velocities. In addition, several areas in and along the stream have experienced material/debris deposition (gravel bars), that if left in place, could promote stream bank scour and erosion. The sanitary force main and a gas line could be exposed if these conditions are not addressed	Repair Cayuta Creek erosion in FEMA scope of work. (During engineering survey, additional erosions issues were identified, changing the scope of work)	Flooding	\$200,000
Sheshequin Township	1	Keir Bridge Repairs	Bank erosion. Possible loss of bridge	Stabilize outside bank with R8 stone and apply grouting material	Flooding	\$75,000
Sheshequin Township	2	Warner Hill Creek Bank	Secure bank repair. Made after 2011 flooding	Stabilize existing R8 stone and add additional R8 stone and apply grouting material	Flooding	\$40,000
Sheshequin Township	3	Goose Hollow Bank Repair	Bank erosion. Possible loss of roadway	Stabilize outside bank with R8 stone and apply grouting material	Flooding	\$250,000
Sheshequin Township	4	Pellinger Bridge Repair	Bank erosion and scouring of outside bridge entrance wing wall	Rehab wall and bank leading into bridge with R8 stone and apply grouting material	Flooding	\$75,000
Smithfield Township	None	T659-02 Culvert Upgrade	Flash flooding events overtop Kellogg road resulting in erosion of roadway and private property and restricted traffic flow	Install a 52 inch x 77 inch aluminized CMP to replace an existing 42 inch smooth pipe stabilize inlet and outlet with RipRap	Flooding	\$7,000
Smithfield Township	None	T659-01 Culvert Upgrade	Flash flooding events overtop Kellogg road resulting in erosion of roadway and private property and restricted traffic flow	Install a 52 inch x 77 inch aluminized CMP to replace an existing 48 inch smooth pipe stabilize inlet and outlet with RipRap	Flooding	\$7,000

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Smithfield Township	None	T657-01 Culvert Upgrade	Flash flooding events overtop Wilcox road resulting in erosion of roadway and restricted traffic flow	Install a 59 inch x 81 inch aluminized CMP to replace an existing 36 inch CMP. Stabilize inlet and outlet with RipRap	Flooding	\$7,000
Smithfield Township	None	T651-01 Culvert Upgrade	Heavy rain and flash flooding events overtop Old School Road resulting in restricted traffic flow and eroded road surface	Install a 67 inch x 95 inch aluminized CMP to replace an existing 48 inch smooth bore steel pipe stabilize inlets and outlets with RipRap	Flooding	\$10,000
Smithfield Township	None	T623-02 Culvert Upgrade	Flash flooding events overtop Easy street restricting traffic flow and causes severe scour and erosion to the road surface and shoulders	Install a 43 inch x 64 inch aluminized CMP to replace the existing 36 inch CMP stabilize inlet and outlet with RipRap	Flooding	\$4,500
Smithfield Township	None	T623-01 Culvert Upgrade	Flash flooding overtops Hoblet Road restricting traffic and causes severe scouring and erosion	Install a 43 inch x 64 inch aluminized CMP to replace the existing 36 inch CMP stabilize inlet and outlet with RipRap	Flooding	\$5,400
Smithfield Township	None	T666-01 Culvert Upgrade	Flash flooding events overtop Easy Street causing severe erosion and impacts safe travel for motorists	Install a 59 inch x 81 inch aluminized CMP to replace an existing 48 inch CMP. Stabilize inlet and outlet with RipRap	Flooding	\$9,000
Smithfield Township	None	T708-01 Bridge Upgrade	Flash flooding events overtake the structure on Sunnyside Road resulting in severe erosion and loss of integrity to the bridge over apple creek- traffic flow becomes limited and/or restricted	Install a concrete box culvert of undetermined capacity to replace existing bridge with a 10.5 foot span and a 4.5 foot rise	Flooding	\$120,000
Stevens Township	None	Waterman Rd Project	Flooding and erosion issues.	Repair the road to decrease flooding	Flooding	\$70,200
Stevens Township	None	Zeigler Rd Creek Bank Stabilization Project	Creek bank erosion.	Reinforce the bank with R-7 rock and netting	Flooding	\$15,300
Terry Township	1	McGuire- Covey Hill	Repetitive flooding over road	Create french mattress and install sluice pipes	Flooding	\$88,700
Terry Township	2	Scrib Meadow	Road washes out during heavy rains	Install larger sluice pipes and create turn outs	Flooding	\$86,000

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Terry Township	3	Norway Ridge	Road washes out during heavy rains	Install larger sluice pipes and create turn outs to improve drainage	Flooding	\$45,000
Terry Township	4	Rouse Road	A section of road is lower than the swamp next to it which causes flooding from heavy rain	Build up road which will improve drainage depth for swamp over flow	Flooding	\$58,500
Terry Township	5	Terrytown Moutain Road	Section of road has been tar/chipped to help prevent erosion. Heavy rains still cause many areas of road to wash out.	Grind road, adding aggregate to build up road. Creating a cement base and seal with two layers of tar/chip	Flooding	\$75,000
Terry Township	6	Parker Road	Sections of road washes out during heavy rain	Build up road and install sluice pipes for better drainage	Flooding	\$27,600
Terry Township	7	Messersmith Road	Sections of road washes out during heavy rain	Build up road and install sluice pipes to improve drainage	Flooding	\$83,500
Terry Township	8	Saxe Road	Road floods and washes out during heavy rains	Land owner will not grant permission to install sluice pipes for better drainage	Flooding	\$9,300
Terry Township	9	Carr Road	Road washes out during heavy rains	Install larger sluice pipes to improve drainage	Flooding	\$22,500
Terry Township	10	Vargason Road	Poor road base and drainage	Install multiple sluice pipes	Flooding	\$71,000
Warren Township	None	Wappasini-Pendleton Creek	The Wappasini and Pendleton creeks were disrupted from flood of 2011	Improve flow of creeks that has debis sand bars and gravel bars, with bank improvement starting at lake o meadows to west warren	Flooding	Unknown
West Burlington Township	1	Hanks Rd	Erosion of bank along creek	Put RipRap along creek bank	Flooding	\$91,400
Wilmot Township	2	Robinson Road	Road erosion due to stream problems	Move the road 20ft	Flooding	\$75,000
Wilmot Township	1	Sugar Run- Village	There are five homes in Sugar Run that do not have adequate sewer systems. They are also in the flood plain. This would elminate the need for a sewer system.	Purchase homes without adequate sewage systems and that are also in the flood plain. We would remove the structures and enforce permanent restrictions on development	Flooding	\$500,000

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Wysox Township	1	Railroad Bridge		The rail road bridge, at this location, is insufficient in length to allow flood waters to flow freely under. As a result, the waters are forced onto adjoining properties and cause flooding. Constructing new and longer bridge is necessary to provide adequate volume for waters to continue on their intended course	Flooding	\$16,000,000
Wysox Township	2	BZ Pipe		There is a drainage pipe which runs under the railroad embankment that needs to be enlarged to allow the free flowing flood waters to evacuate from the wet lands which abut on the northern edge of this property. Replacing existing pipe with a larger one, or multiple ones, may prevent future flooding in "downtown" Wysox	Flooding	\$80,000
Wysox Township	3	Sears Pipe		There is a drainage pipe which runs under the railroad embankment that needs to be enlarged to allow the free flowing flood waters to evacuate from the wet lands which abut on the northern edge of this property. Replacing existing pipe with a larger one,	Flooding	\$80,000

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Wysox Township	4	Wysox Creek Bridges		The dual bridges, at this location, currently have sufficient depth and width to carry free flowing waters. However, they are compromised by scouring caused by dunnage build-up during storm events. As a result, a less than severe storm could again cause more flooding. Provide means to clear the creek bed of any and all encumbrances to the flowing waters by excavating obstacles and thereby clearing the channel.	Flooding	\$30,000
Wysox Township	5	Harmony		There is a rivulet running alongside of this road which has created a steep ravine. This is subject to wash out during heavy water flows. The embankment needs to be stabilized by either pinning the slope face or by constructing an abutment which stretches from the ravine basin to the top of sloped hill face. This will protect against Harmony Hill Road from being washed out.	Flooding	\$600,000
Wysox Township	6	Fall Run		Fall Run Creek runs along side of this road which has created a steep ravine. This is subject to wash out during heavy water flows. The embankment needs to be stabilized by either pinning the slope face or by constructing an abutment which stretches from the ravine basin to the top of the sloped hill face. This will protect against Fall Run Road from being washed out.	Flooding	\$600,000

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Wysox Township	7	Claverack		Pond Run flows alongside of this road which has created a steep ravine. This is subject to wash out during heavy water flows. The embankment needs to be stabilized by either pinning the slope face or by constructing an abutment which stretches from the ravine basin to the top of the sloped hill face. This will protect against Claverack Road from being washed out	Flooding	\$800,000
Wysox Township	8	Glen		Pond Run flows alongside of Glen Road. During heavy rains the steep hillside becomes saturated and mud slides prevail which block Glen Road. Emergency vehicles may have difficulty traversing this route. The embankment needs to be stabilized by either pinning the slope face or by constructing an abutment which stretches from beside the roadway to the top of the sloped hill face. This will protect against Glen Road from being impassable.	Flooding	\$400,000