

2025 Crawford County Hazard Mitigation Plan – Municipal Project Opportunities

Municipality	Community Rank	Project Name	Mitigation Measures		Hazard Mitigated	Total Cost (\$)	Schedule	Funding Source	Local Champion
			Description of Problem to be Solved	Project Description					
Beaver Township	n/a	Philadelphia Road	Flooding Caused by beaver dams	Need improvement of the road to allow for proper drainage to prevent flooding. Beaver needs to be removed. Road needs widened and elevated.	Flooding, Flash flooding, Ice jam flooding	250,000.00-300,000.00	2025-2030	n/a	Beaver Township
Bloomfield Township	n/a	Canadohta Lake Flood Prevention	Canadohta lake is subject to flooding when significant rain events occur.	Install water level sensors at the north end of the lake which would communicate with active controls to automatically open dam gates. Also provide live feed cameras at the sensor locations to visually monitor the water level in case manual intervention would be necessary.	Flooding, Flash flooding, Ice Jam Flooding	30,000.00	2025-2030	n/a	Bloomfield Township
Blooming Valley Borough	1	Roadside tree trimming and removal	Roadside trees and vegetation falling on roadways and utility lines during storms, disrupting travel and utilities.	Arborist utility certified contractor to perform roadside tree trimming and tree removals decreasing hazards during storm events	Utility Interruption/ Transportation	12,000.00	2025-2030	Local General Fund	Bloomfield Township
Cambridge Springs Borough	1	Glen Avenue Bridge	During a heavy rain event, Jackson Run, a tributary from the SCI Cambridge Dam that flows into French Creek, floods the area causing the bridge and roadway to be closed. The weight limit has been reduced to 15 ton from 27 tons by the borough preventing fire apparatus and garbage refuse from crossing over the bridge.	The project would include replacing the entire bridge culvert area with a box prefabbed bridge on top, paving the deck, and new sidewalks. The retaining walls of Jackson Run would be replaced up to 10' tall behind six homes near the bridge.	Flooding, Transportation	916,713.00	2025-2030	TBD	Cambridge Springs Borough

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Centerville Borough	1	Catch Basins Cleaning	To prevent flooding on road/highway and safety of public transportation.	Clean out catch basins, associated pipes and tail ditches.	Flooding. Flash flooding. Ice Jam Flooding	3,000.00	2025-2030	State Liquid Fuels	Centerville Borough
Cochranton Borough	n/a	North Street Storm Runoff	During a heavy rain event, drainage is an issue coming off Route 322 and running down (culvert) ditch located along side of North Street.	Prevent debris from coming off of Route 322 and clogging the culvert pipe and preventing proper drainage.	Flooding. Flash flooding. Ice Jam Flooding	TBD	2025-2030	Borough Funds	Cochranton Borough
Cochranton Borough	4	North Street Mitigation	Excessive run-off from Route 322 into the Borough, via North Street, during heavy rain events, continues to be an issue.	Discuss with Engineer suggested ways to eliminate excessive run-off from Route 322 and to minimize run-off entering storm drain system and causing debris backup and overflow onto North Street.	Flooding	25,000.00-50,000.00	2025-2030	Borough General Funds	Cochranton Borough
Conneaut Lake Borough	n/a	PA Green Light Go Funding - Project Water St, 1st Street	Replace outdated traffic control technology in the downtown business corridor. This project will result in 4 adjacent downtown street intersections being interconnected for efficient traffic flow and control of pedestrians crossing our Main Street.	This project will upgrade the existing traffic signals and control system currently in place at the intersection of 1st Street. New mast arms, LED lights and control electronics will ensure safe and efficient traffic flow, control of pedestrian crossing and eliminated unsafe overhead wires. Project: Spring 2026/2027	Transportation	196,600.00	2025-2030	Borough Funds for \$64,615.00	Conneaut Lake Borough

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Conneaut Lake Borough	n/a	PA Green Light Go Funding - Project Water St, 2nd Street	Replace outdated traffic control technology in the downtown business corridor. This project will result in 4 adjacent downtown street intersections being interconnected for efficient traffic flow and control of pedestrians crossing our Main Street.	This project will upgrade the existing traffic signals and control system currently in place at the intersection of 2nd Street. New mast arms, LED lights and control electronics will ensure safe and efficient traffic flow, control of pedestrian crossing and eliminated unsafe overhead wires. Project: completed	Transportation	275,000.00	2025-2030	Borough Funds for \$55,000.00	Conneaut Lake Borough
Conneaut Lake Borough	n/a	PA Green Light Go Funding - Project Water St, 3rd & 4th Street	Replace outdated traffic control technology in the downtown business corridor. This project will result in 4 adjacent downtown street intersections being interconnected for efficient traffic flow and control of pedestrians crossing our Main Street and eliminate unsafe overhead wires.	This project will upgrade the existing traffic signals and control system currently in place at the intersections of 3rd & 4th Streets. New mast arms, LED lights and control electronics will ensure safe and efficient traffic flow, control of pedestrian crossing and eliminated unsafe overhead wires. Project: Spring 2025.	Transportation	729,670.00	2025-2030	Borough Funds for \$146,000.00	Conneaut Lake Borough
Conneaut Lake Borough	n/a	High Street Tree Removal	Trees in the power lines causes power outages during storms and or high winds.	Trees need trimmed away from the power lines or the trees need to be removed.	Utility Interruption	150,000.00	2025-2030	n/a	Conneaut Lake Borough

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Conneaut Lake Borough	n/a	Stormwater Management	Discharge area capacity is not sufficient to hold the volume.	n/a	Flooding, Utility Interruption	500,000.00	2025-2030	n/a	Conneaut Lake Borough
Conneaut Lake Borough	n/a	Townhall Generator	Need a generator as a backup source of power for power outages. This would enable the townhall to be used as a command center. Also would enable it to be a warming or cooling center for a limited number of people based on the building's occupancy capacity.	Purchase generator and installation costs and construction costs for the pad to set the generator on and a structure to protect it from the weather.	Utility Interruption	70,000.00	2025-2030	n/a	Conneaut Lake Borough
Conneaut Township	1	Flooding on Cole and Phelps Road	18683 Cole Road 15120 Phelps Road	Flooding is due to beaver moving in and they blocked the culverts. Game commission will have to remove beaver. Using Cow gates and other means to keep the culverts clean.	Flooding	100.00 yearly	2025-2030	General Funds	Conneaut Township
Conneaut Township	2	Dust Control	Control dust on populated dirt roads.	Use sodium chloride flakes mixed with water and sprayed on dirt roads. Also encourage residents to purchase one time, tar and chips then the townships will maintain after that.	Transportation	Varies	2025-2030	General Funds	Conneaut Township

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Conneaut Township	3	West Road Bridge Replacement	Replace complete bridge	Engineering has been completed, bore testing is complete. Permits have been secured, needs to secure more funding to complete.	Transportation	400,000.00	2025-2030	ARPA used for completed projects	Conneaut Township
Conneautville Borough	1	Main Street Stormwater	Inadequate storm water management causing flooding of roads, properties, and railroad transportation along Main Street, Mulberry Street, Canal Street, Pearl Street, Center Street, and Jefferson Street.	Clean out and repair storm water management system that collects our run off and is grown in and plugged, and the old culvert under the tracks that carries the water to the creek and is collapsed.	Flooding, flash flooding	70,000.00	2025-2030	No local share available	Conneautville Borough
Conneautville Borough	2	Park Storm Water Management	Inadequate storm water management causing flooding of community park and Washington Street Extension.	Clean out and repair storm water management system that collects our run off and is grown in and plugged, and the culvert under Washington Street Extension.	Flooding, Flash Flooding	50,000.00	2025-2030	No local share available	Conneautville Borough
Conneautville Borough	3	Retention Dam Storm Water Management	Inadequate storm water management causing flooding of Washington Street Extension, Center, Street, Main Street, to Conneaut Creek.	Clean out and repair storm water management system that collects water run off and is grown in and plugged from the Borough owned high hazard retention dam located on Washington Street Extension along Center Street to Conneaut Creek.	Flooding, Flash Flooding	250,000.00	2025-2030	No local share available	Conneautville Borough

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Conneautville Borough	4	Water System Generator	No backup generator capability at two water generating wells.	Purchase a natural gas generator to restore power to the water well pump at water wells located on Licking Street and Jefferson Street.	Utility Interruption	150,000.00	2025-2030	No local share available	Conneautville Borough
East Fallowfield Township	1	Tornado Sirens	Current sirens are not working and a siren is needed to alert the Amish in the community.	Replace existing non-working siren with a new one at the township building and on top of Rocky Glenn Road.	Tornado	46,980.00	2025-2030	Township Savings	East Fallowfield Township
East Mead Township	1	Davison Road	Storm water runs off an agriculture field onto the roadway and washes out the roadway and culvert pipes.	Township would install a French drain and additional three 20" culvert pipes to run under the roadway for approximately one mile.	Flooding, Flash Flooding	50,000.00	2025-2030	Unknown	East Mead Township
East Mead Township	2	West Oil Creek Road	Storm water runs off an agriculture field onto the roadway and washes out the roadway and culvert pipes.	Township would install a French drain and additional three 20" culvert pipes to run under the roadway for approximately one and a half mile.	Flooding, Flash Flooding, Transportation	10,000.00	2025-2030	Unknown	East Mead Township
East Mead Township	3	Plank Road	Culvert pipe is not large enough to handle the amount of runoff water.	Township would install a grated fence to keep debris from flowing downhill.	Flooding, Flash Flooding	10,000.00	2025-2030	Unknown	East Mead Township

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Fairfield Township	1	Fairfield Township Apron Paving	Transportation accidents: The Township uses a grader on township gravel roads and where they meet a state maintained road, the operator must pull a 28 foot grader onto the state road and hope traffic will have patience while the operator turns the grader around and back onto the township road.	The township would pave the aprons on all intersections where a township road meets a state maintained road.	Transportation	n/a	2025-2030	Township, General, and/or State Funds	Fairfield Township
Fairfield Township	2	Fairfield Township Culverts	Various culverts in township are aging and have the potential to collapse.	Township would identify culverts that need to be replaced. Township engineer and Crawford County Conservation District would be contacted to determine culvert size, the watershed, and necessary permits. Either the township will complete the culvert removal and replacement or a contractor would be hired in the event of the extensive construction or culvert size.	Flooding, Flash Flooding.	Undetermined	2025-2030	Township, General, and/or State Funds	Fairfield township

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Greenwood Township	n/a	Township Generator	This generator would allow the Township Building to be used as a warming/cooling center for the community in the event of extreme weather situations including snowstorms, extreme heat, flooding, extending power outages, etc.	Greenwood Township would like to purchase a Generac 7291 Guardian 26kW Standby Generator Wilf with 200 amp automatic transfer switch. This generator would ensure that township building would be able to run our current heating and cooling system m, allowing for a safe place for residents during extreme weather/power outages.	Utility Interruption	7,100.00	2025-2030	Township Funds	Greenwood Township
Greenwood Township	n/a	Brick Church Rd Bridge Repair	The bridge described is in disrepair and in need of replacing.	The Greenwood Township road crew will be proactively replacing this bridge with a culvert pipe to mitigate this hazard.	Transportation	9,000.00	2025-2030	Township Funds	Greenwood Township

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Hydetown Borough	1	Blight Mitigation and Remediation	<p>Blight is an issue across PA and Hydetown Borough is no exception. We have at least one majorly blighted property we are trying to address and simultaneously trying to prevent future blight and address the lack of capacity for code enforcement that has been occurring in the borough.</p>	<p>Hydetown Borough is actively working on mitigation of future blighted properties and remediation of current blighted properties. We have been updating current and attempting to pass new ordinances to address blight, attempting to partner with neighboring municipalities to address code enforcement through intergovernmental agreements and cooperation, and modernization of the methods for addressing blight. The challenge of the project is not having the funds to acquire blighted properties, legal fees for lawyers and potentially the conservatorship process, and paying for a code enforcement officer through intergovernmental agreements.</p>	Blighted Properties	At least \$5,000.00 annually for code enforcement and additional funds for property acquisition	2025-2030	Local taxpayer dollars	Hydetown Borough

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City of Meadville	n/a	Hartz Ave Stormwater Hazard	During heavy rain events, the stormwater system on Hartz Ave becomes hydraulically overloaded, leading to stormwater sheet-flowing across Park Avenue	Increasing the capacity of the stormwater system through larger diameter pipes and new catch basins will capture the larger volume of water during rain events and eliminating flow on Park Avenue.	Flooding	\$350,000.00	2025-2030	City General Funds	City of Meadville
City of Meadville	n/a	Ice Jam Flooding Mitigation	During spring thaw, ice chunks accumulate in areas along French Creek south of the City of Meadville, creating flooding issues in the City of Meadville.	Using unmanned aerial vehicles, explosive devices will be dropped on the ice jams, freeing the water to move unhindered.	Ice Jam Flooding	\$100,000.00	2025-2030	City General Funds	City of Meadville
North Shenango Township	1	Ladder Truck for Fire Department	Buy new ladder truck for fire department.	New ladder truck.	Emergency services	1,300,000.00	2025-2030	Fire department and township funds	North Shenango Township
Pine Township	n/a	Generator	A generator is needed to help mitigate risk from extreme temperatures or natural disasters that could impact utility use for the community. A generator will allow residence impacted by utility disruptions to access electric to charge phones, cooling/heating.	Install generator in township building.	Utility Interruption	10,000.00	2025-2030	Township funds/ARPA	Pine Township

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Richmond Township	n/a	Rec Building Generator	Rec Building is an essential structure. It serves as a polling place. In the event of a mass power outage there are no other facilities in the community for people to gather safely for warmth and security.	Place a LPgas (propane) powered backup generator and wire it to provide electricity during a power outage so voting can take place as well as to serve as a warming center in the event of a long-term power outage.	Utility Interruption	25,000.00	2025-2030	General Fund	Richmond Township
Rockdale Township	1	Henry Road Ditching	Drainage.	Excavate and clean out ditches to improve drainage and safe passage.	Flash Flood	3,680.00	2025-2030	State Liquid Fuel Funds	Rockdale
Rockdale Township	1	Whitley Road Drainage Improvement Project	Inadequate road drainage	Installation of 1 section of 140' of 8" perforated HDPE underdrain with a 45° elbow and a section of 40' of 8" sch. 40 to take underdrain water across the road and outlet at a stable location, install 4 sections of 15"x40' HDPE road drainage pipe with headwalls and end walls. Outlets of all pipes must outlet at ground elevation. The road will go over top of the pipes or have a steeper angle to achieve ground level outlets with no tail ditches.	Flash Flooding	18,000.00	2025-2030	Dirt, Gravel, and Low Volume Road grant funds provided by Crawford County Conservation District	Rockdale Township

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Rockdale Township	1	Wise Rd Drainage Improvement Phase 1	Inadequate drainage, cause road flooding, washouts and impasse.	Installation of four sections of 150 ft of 8” perforated HDPE underdrain with four sections of 8” sch. Forty to take underdrain water to the east side of the road at a stable outlet location, install nine sections of 15” x 40’ HDPE road drainage pipe with headwalls and end walls, install 2500 tons of 2A gravel overtop roadway on the furthest south portion of the project to build up road two feet and add the remainder to the north portion of project to have a stable road base.	Flash Flooding	110,331.50	2025-2030	Dirt, Gravel, and Low Volume Road grant funds provided by Crawford County Conservation District	Rockdale Township
Rockdale Township	1	Wise Rd Drainage Improvement Phase II yr. 2025	Inadequate drainage, cause road flooding, washouts and impasse.	Phase II install Aluminum bottomless 29’, headwalls and end walls, wingwalls, concrete footers, back fill, bank margins and riffle rock, streambed restoration, road fill, mudsills, root wads, dewatering.	Flash Flooding	446,448.60	2025-2030	Dirt, Gravel, and Low Volume Road grant funds provided by Crawford County Conservation District	Rockdale Township
Saegertown Borough	n/a	Well Water Contamination	(4) municipal water wells contaminated with PFAS Chemicals.	New filtration Plant and associated water lines.	Environmental Hazards	12,700,000.00	2025-2030	Unknown	Saegertown Borough

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Sadsbury Township	n/a	CLUFD Generator	Generator for use during wide-spread power outage	The volunteer fire department building does not have a generator to power lights, water, etc. During a wide-spread power outage this building could be used as an emergency center or shelter if it had a generator.	Utility Interruption	40,000.00	2025-2030	n/a	Sadsbury Township
Steuben Township	n/a	Dewey Road Pipe	Dewey Rd, is flooding in a section of the road by the above address due to inadequate draining from the fields all around the road. When it rains a good amount, the little creek will flood the fields and the water has nowhere to go but the road therefore flooding the road at this section. Even on dry days there is water going down the road. Winter time it freezes there and causing an icy patch on the road. Water is constantly running along this section of the road.	Install new cross pipe on Dewey Road and a driveway pipe at the address above, then do ditching along the road to open area that leads to the little stream to eliminate the flooding problem along that section of the road	Flooding	12,500.00	2025-2030	General Account and/or Liquid Fuels	Steuben Township

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Summit Township	n/a	Porter Road Culvert Replacement	Replacement of deteriorating culvert and erosion and sedimentation control.	Includes preparation of the project area for proper and safe commencement and completion of the project work, traffic control and proper detour routing, erosion and sedimentation control, removal and replacement of an existing deteriorated 36" diameter corrugated metal pipe with a new 16' span x 6'-2" rise corrugated structural steel plate arch culvert (no bottom) including poured in- place concrete footer, installation of aluminum plate headwalls and wingwalls, realignment of the stream channel at the roadway, regarding the stream channel and constructing grade control structures upstream and downstream approximately 100-feet beyond the roadway, removal and replacement of existing guiderails, reconstruction of the roadway, and site restoration as necessary.	Flooding	400,000.00	2025-2030	Crawford County Conservation District	Summit Township

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City of Titusville	n/a	Church Run Flood Mitigation	Long history of flooding along Church Run in the city would be solved by implementing this project.	Constructing a box culvert diversion for Church Run, starting in the area of West Mount Vernon Street and out falling to Oil Creek. The design would also construct a Diversion Dam immediately south of West Mount Vernon Street to collect the 100- year design storm flow into the box culvert while preventing flooding at this location. A low flow culvert (30" pipe) would be provided to allow for limited flows to be carried into the existing Church Run Channel to maintain the existing habitat. The upstream opening to this pipe will be lower in elevation than the box culvert entrance so that the existing Church Run Channel always carries flows, even in drought conditions. The culvert alignment follows North Washington Street from West Mount Vernon Street to Cherry Street, turns East on Cherry Street to Martin Street, follows Martin Street to East Spring Street, then passes through commercial properties in a Southeastern direction directly to Oil Creek	Flooding	66,614,191.85	2025-2030	DGS flood protection project funding, CDBG, Pennvest, H2O PA Flood Control Project Funding, PA DCED, PA Small Water and Sewer Program Funding	City of Titusville

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City of Titusville	n/a	Church Run Flood Mitigation Retaining Wall Project	Many of the existing stone wall retaining walls along Church Run are leaning and/or are in danger of falling into the channel. By addressing this issue and replacing the existing stone wall, it will prevent wall collapse and interference of the flow of Church Run, potentially causing flooding.	The existing stream channel includes long reaches of stone retaining walls, many of these leaning and/or in danger of falling into the channel. There are numerous concrete retaining walls, and in several areas, structures are part of or are connected directly to the walls. There are multiple locations where wooden supports were installed to prevent the stone walls from overturning, which themselves are in degrading condition and are of little benefit beyond their immediate lengths. To prevent potential injuries and property damage from sections of wall collapse, including subsidence and sliding along the upstream side of the wall or structures. The restoration includes the installations of non-biodegradable geobags, which are then hydroseeded or constructed with wetland plugs inserted between rows of the bags, to create a vegetated stream wall. 25% of the total 6600 LF centerline length of the Church Run existing stream channel will require some manner of structural repair beyond the living wall restoration.	Flooding	7,334,360.00	2025-2030	DGS flood protection project funding, CDBG, Pennvest, H2O PA Flood Control Project Funding, PA DCED, PA Small Water and Sewer Program Funding	City of Titusville

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Townville Borough	n/a	Drainage	The need to control excess rainwater to control where it flows.	We would like to be able to clean all of our drainage ditches along North Main Street, South Main Street, and West Freemont Street. Also be able to clean out all of the existing storm drains located along the streets. Also in places where it washes it, we would like to add some stone to keep the area secure.	Flooding	10,000.00	2025-2030	Local Tax Money	Townville Borough
Union Township	n/a	Shillings Road Cutback	Tree overgrowth, limbs hanging over road.	Tree Cutback	Utility Interruption	20,000.00	2025-2030	n/a	Union Township
Union Township	n/a	Mount Pleasant Road Ditch	Mount Pleasant Road ditch needs to be filled in and sloped to take water. Pictures available upon request.	Mount Pleasant Road ditch is transportation hazard due to it's depth.	Transportation	15,000.00	2025-2030	n/a	Union Township
Union Township	n/a	Kerbert Road Ditch	Kerbert Road ditch needs to be filled in and sloped to take water. Pictures available upon request.	Kerbert Road ditch is a transportation hazard due to it's depth.	Transportation	15,000.00	2025-2030	n/a	Union Township
Union Township	n/a	Mt. Pleasant Bridge Replacement	Mt. Pleasant Bridge is a one lane bridge and needs to be widened.	Replacement of Mt. Pleasant Road Bridge.	Transportation	50,000.00	2025-2030	n/a	Union Township

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Vernon Township	n/a	Blighted Properties	Removal of blighted structures in the township that pose a hazard to the health, safety, and welfare of its citizens.	Removal of blighted structures.	Blighted Properties	250,000.00	2025-2030	General Fund Budget	Vernon Township
Wayne Township	1	Wayne Township Culverts	Various culverts in the township are aging and will collapse, taking the roadway with it.	Identify culverts that need to be replaced, Township engineer and Conservation district would be contacted to determine culvert size, the watershed and necessary permits. Either the township will complete the culvert removal and replacement or a contractor would be hired in the event of extensive construction or culvert size.	Flooding	Undetermined	2025-2030	Township, General, and/or State Funds	Wayne Township

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Wayne Township	2	Daylighting Roadways	<p>Winter Storm: The township has 57+ miles of roads to maintain. More than 80% of the township roads are rural in nature and tend to become overgrown with trees hanging over the roadways. During a storm, either rain or snow driven, the potential for tree(s) to fall upon and close roadways is exceedingly high. Additionally, trees can take down electric and telephone lines and residents can lose both services for days, depending on the location. Also, if a storm occurs, the sun afterward does not have a chance to melt off the snow.</p>	<p>The township or a hired contractor would daylight the roads to reduce or avoid loss of services and melt snow after a storm.</p>	Transportation, Utility Interruption	Undetermined	2025-2030	Township, General, and/or State Funds	Wayne Township

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West Mead Township	n/a	Thurston Run/Mill Run Bank Erosion Project	Scour hole and tree with root exposure is found at the downstream end of bridge/pipe structure on Thurston Road. Gravel and bank erosion exists within 1 foot of home located at 11595 Thurston Road and continues down to the confluence with Mill Run. Gravel bars and material build up has caused damage and standing water located between homes on Alden Street and Meadville Area Recreation Complex property on Thurston Road.	Gravel bar and debris removal in and along stream beds as well as replacement and reestablishment of bank stabilization and vegetation along the properties located between Thurston Road and Alden Street. Work is to be done in conjunction with all necessary current DEP permitting policies as we had existing permits but they have since expired. Work is to be done also in conjunction with Crawford County Conservation District/FEMA/PEMA and US Department of Environmental Protection. Township engineer will secure all necessary permits and design plans accordingly.	Landslides, Flooding	150,000.00	2025-2030	Local and State Grant Funding and possible match money	West Mead Township
Woodcock Township	n/a	Pinneys Road Beaver Dam	Beavers built dams in pipe which causes the road crew to have to pull the dams to avoid a flooding situation for the neighboring property owners and our road.	Eliminate the 7' pipe and replace with a bridge-type structure.	Flooding/ Transportation	250,000.00	2025-2030	Township Funds or Grant Money (CDBG)	Woodcock Township