		2017 Tiog	a County Hazard Mitigation Plan -			
Municipality	Community Rank	Project Name	Mitigation Description of Problem to be Solved	Measures Project Description	Hazard Mitigated	Total Cost
Bloss Township		Head walls	The headwalls are falling apart.	Install new headwalls with approximately 12 blocks.	Flooding	\$1,880.00
Bloss Township		Larch Lane	Water drainage problem.	Install a 2' by 36" high catch basin.	Flooding	\$650.00
Bloss Township		Replace sluice pipe.	The sluice pipe needs replaced.	To install an 18" by 25' sluice.	Flooding	\$2,020.00
Bloss Township		Secondary water source	To provide extra water in drought condition.	WII and pipe line to be located at later date. One mile of 8" pipe.	Drought	\$150,000 for we \$45,400.00 pip
Bloss Township		Insalling 5' pipe and retaining blocks	Installing 5' squash pipe and 16 retaining blocks because the pipe deteriorated and head walls are bad.	Installing 5' squash pipe and 16 retaining blcoks.	Flooding	\$8,200.00
Blossburg Borough	1	Stabilize gabion baskets behind library	Stabilize deterorating gabion baskets along Tioga River behind Blossburg Memorial Library	Stabilize deterorating gabion baskets behind Blossburg Memorial Library and along Tioga River with rip rap stone and concrete along the entire 450' length of the structure to approximately 6' high.	Flooding	\$40,275.00
Blossburg Borough	2	Rip rap diversions in Tioga River	Place rip rap stone along Tioga River to divert water flows away from base of gabion baskets to minimizze erosion.	construct 2 piles of rip rap stone along east side of tioga River, upstream of Blossburg Memorial Library gabion basket wall. Both structures would measure approximately 20' wide x 10' high.	Flooding	\$34,805.00
Blossburg Borough	3	125kW generator at well	Provide emergency power to Blossburg Sportsman Well during outages.	Install a 125 kW natural gas generator at the Blossburg Sportsman Well. This well is the secondary water supply for the Blossburg water system. Blossburg serves water to the Blossburg Borough and Hamilton Township.	Utility	\$81,726.50
Blossburg Borough	4	Tioga Riverbank Stabilization by Grabowski Trailer Park	Prevent erosion of riverbank on south end of trailer park.	Install 1,150 tons of rip rap along north side of Tioga River.	Flooding	\$51,800.00
Blossburg Borough	5	New driveway to fire and ambulance	Presently there is only one driveway access for the fire trucks and ambulances. Duirng flood conditions, this access is covered by flood waters and potentially preventing vehicles access to or from the building. The new drieway is out of the flood plain and would allow vehicles access to their building.	Construct a 200' long x 20' wide driveway to fire/ambulance building from Ruah Street.	Flooding	\$14,915.50
Blossburg Borough	6	Purchase property at 330 Reese Lane	Remove home from flood plain, which has had flood damage in prior years.	Purchase and demolish buildings on Reese Lane and turn property into a park with no future buildings allowed to be built there.	Flooding	\$187,223.00
Blossburg Borough	7	Purchase properties at 334 Reese Lane	Remove home, which has had prior flood damages, from flood plain.	Purchase and demolish all strucutres and turn property into a park with no future buildings allowed to be constructed there.	Flooding	\$187,465.00

	Community		Mitigation	Measures		
Municipality	Rank	Project Name	Description of Problem to be Solved	Project Description	Hazard Mitigated	Total Cost
Blossburg Borough	8	Granger Street Improvements	Improving this section of road will allow access from both ends of Granger Street for residents living from 631 Granger Street to 323 Granger Street. Closure of either end of Granger Street for any reason (utility repair, tree falling across road) could land lock some residents.	Improve Granger Street from Miss Daisy Lane going north 487', to accepted roa standards for borough streets.	Transportation	\$27,155.00
Blossburg Borough	9	Granger Street Drainage Improvements	Existing size of drain pipe is too small to carry storm water during storms. There is no drain pipe in some areas of Granger Street and storm water from these areas either flows west across Granger Street causing erosion of sediment onto Ruah Street or water lays along the road to deteriorate sections of Granger Street.	Inasll 700' of 18: pipe and 570' of 15" pipe along east side of Granger Street to handle storm water.	Flooding	\$62,854.25
Blossburg Borough	10	Block wall along Bear Creek	Prevent erosion and flooding of properties along Bear Creek.	Install block wall measuring 528' long and 7' high along both sides of Bear Creek.	Flooding	\$187,978.90
Blossburg Borough	11	Parkhurst Street drainage improvements	Prevent storm water from the hill, east of Parhurst Street from flowing down on homes on west side of Parkhurst Street and homes on Davis and Granger Street.	Install 660' of 15" drain pipe along east side of Parkhurst Street, between Carpenter and Lynd Street.	Flooding	\$39,803.50
Blossburg Borough	12	Replace storm drain along South Williamson Road	Replace existing pipe which is plugged with a larger pipe that will be installed with a better slope for drainage.	Install 250' of 15" pipe starting on south side of William B Street and going south to	Flooding	\$16,202.75
Brookfield Township	1	Troups Creek - Freeman Stream Bank	Repair stream bank erosion on Freeman property and surrounding properties.	Repair stream bank erosion on Freeman property and surrounding properties.	Flooding	\$290,800.00
Brookfield Township	2	Simmons and Rietter Hill Road drainage and road repair	Repair property C 2341 Rietter Hill Road, stream runs thorugh yard and property and along side Simmons Road, washing out side of bank and road.	Stabilize bank along property and road.	Flooding	\$21,770.00
Brookfield Township	3	Brookfield Township Building Generator	Back up propane generator for township building.	Back up generator for township builindg in case of outage. This is a shelter for residents and command center for township.	Utility	\$3,000 to \$6,000
Charleston Township		Mills Hill Pipe	Water flows over the road.	Increase the pipe from 6-feet to 8'feet with two 3-foot over flow pipes, then raise the road 3-feet.	Flooding	\$30,000.00
Chatham Township	1	Solar-power Back- up Generator	Emergency power due to storms or disasters.	Install solar power generator in township and fire dept. building and community room (all in one building). This bulding is also recovery center in case of storm or disaster.	Utility	\$250,000 - \$350,000
Covington Township		Stuart Lisowski		Increasing sluce pipes on hilfiger and Kendrick Rd, East Creek, bottom of East Creek Rd. Elevating and enhancing ditches	Flooding	\$170,000.00
Covington Township		Stuart Lisowski		Palmer Rd. increasing from two 7 1/2 pipes to one 14 foot pipe to increase velocity and volume on marvin creek.	Flooding	\$68,000.00

	Community		Mitigation	Measures			
Municipality	Community Rank	Project Name	Description of Problem to be Solved	Project Description	Hazard Mitigated	Total Cost	
Deerfield Township		Deerfield Township Municipal Building	This building is a 3-bay shop to house equipment and to do repairs to the equipmment. It also has an in-ground fuel tank. The tower for our radio system and repeater are also located here.	To acquire a back-up natural gas generator.	Utility	\$6,500.00	
Deerfield Township		Proposed Channel Bank Stabilization along Troups Creek	The stream channel has migrated upstream of county bridge #3. There is future potential for the stream to cut throught he approach roadway on the nearside and bypass the bridge totally.	A total of 8 to 10 rock vanes will be placed prior to the current channel with waer flow, with 2 more placed upstream. Also, a rock cut wall will be placed along the roadway toe of slope to prevent the channel from cutting through the approach roadway.	Flooding	\$145,536.00	
Elk Township	1	Municipal Building Emergency Generator	Emergency shelter for power outage	Install generator and Propane tank to power generator	Utility	\$8,500.00	
Elk Township	2	Emergency Repeater Tower	Lack of available communications for EMS, Supervisor safety	Install repeater tower to cover gaps in EMS radio service	Communications	\$20,000.00	
Elk Township	3	Dry Hydrant for Fire Protection	Water source for emergency, fires and public safety are minimal.	Install dry hydrant, dam-up for current dry hydrant use.	Fire	TBD	
Elk Township	4	Water Management for Emergency Evacuation	Identify sluice pipes that affect ability to evacuate the township.	Upsize or replace sluices that would effect the ability of residents to be able to evacuate the township in case of emergnecy.	Flooding	\$15,000.00	
Elkland Borough		Cowanesque Levee Certification	Certification of levee	Certification of levee.	Flooding	\$300,000.00	
Elkland Borough		Cowanesque River Pebble Beach	U.S. Army Corps wants 1/4 to 1/2 mile of river gravel removed due to level channel and bank restoration to protect levee system.	Remove gravel bar, possably add rip rap and bank restoration.	Flooding	\$15,000.00	
Elkland Borough		Tannery Pumphouse removal	Removal of cement pumphouse adjacent to Cowanesque River Levee on north side. Flood waters are eroding bank levee behind the pumphouse.	Removal of pumphouse, channel restoration, fix levee and possably add rip rap.	Flooding	\$30,000.00	
Elkland Borough		Campbrook Stream Restoration	Stream restoration, gravel bar removal and clean up. DEP requires an environmental impact study.	Gravel bar removal with clean up, dirt/silt removal.	Flooding	\$35,000.00	
Elkland Borough		Trout Run Creek Restoration	Stream restoration, gravel bar clean up, possible rip rap added. DEP requires permit.	Gravel bar removal with clean up, stream restoration.	Flooding	\$20,000.00	
Elkland Borough		Barney Hill Bridge	Bridge needs to be replaced.	Replace bridge	Transportation		
Farmington Township	1	Elkhorn Creek Road Sluice Pipe	Replace aginig sluice pipe	Replace aging 7-foot squash pipe	Flooding	\$35,000.00	
Farmington Township	2	Colesgrove-Smith Hill Roads	Ameliorte growth of Baldwin Creek beyond its banks	Remove gravel to restore the creek's course and replace a 5-foot pipe under Smith Hill Road	Flooding	\$25,000.00	
Farmington Township	3	Monitor Groundwater levels	Awareness of available groundwater.	Install shallow water wells to monitor groundwater levels during drought conditions.	Drought	\$5,000.00	
Farmington Township	3	State-Johnson Roads Sluice Pipe Replacement	7-foot diameter metal pipe on Thornbottom Creek Tributary near intersection of State Road and Johnson Road is nearing the end of its useful life.	Replace with same size pipe.	Flooding	\$25,000.00	

	Community		, in the second s	Measures		
Municipality	Rank	Project Name	Description of Problem to be Solved	Project Description	Hazard Mitigated	Total Cost
Farmington Township	4	Back-up Generator For Township EOC	Provide backup electricity	Install 11KW backup generator to provide power to township office/garage/EOC during periods of extended loss of electrictiy.	Utility	\$5,000.00
Farmington Township	4	Sluice Pipe Inventory	Sluice pipe inventory.	Inventory size, location and replacement date where available of sluice pipes.	Flooding	\$0.00
Farmington Township	5	Dry Hydrants	Provide water sources for fire fighting.	Locate ponds availabe for use as dry hydrants. Placement of water storage tanks in strategic locations throughout the towndhip where existing ponds are not avaiable	Fire	TBD
Farmington Township	6	Elkhorn Creek Road Bank Stabilization	Elkhorn Creek banks have been eroded by changes in the creek's path.	Place material as required along sections of the creek's banaks to prevent future erosion. Remove material as required from the creek bed to redirect the creek to its original course.	Flooding	\$25,000.00
Farmington Township	7	Elkhorn Creek Road County Bridge	County bridge is a hazard	Replace county bridge	Transportation	TBD
Hamilton Township		Emergency Back- up Generation	Install emergency generator in event of total power failure in immediate area. Shelter for those who need electrical power for life supporting equipment.	Install generator, security fencing, concrete slab for generator unit	Eletricity	\$5,200.00
Jackson Township		Bank Stabilization - Lake Road T669	Stabilize creek bank to prevent road from sliding/caving into the creek.	There are two sites (90'x7' and 90'x22') along T669 (Lake Road) to be stabilized with the placement of rip rap.	Flooding	\$4,000.00
Jackson Township		Bank Stabilization - Lyman Stone Road	Stabilize creek bank to prevent road from sliding/caving into the creek.	Rip rap will be placed along an area (5'x110') to stabilize creek bank.	Flooding	\$2,350.00
Jackson Township		Bank Stabilization - Wales Road T729	Stabilize creek bank to prevent road from sliding/caving into the creek.	There are five sites on Wales Road to be stabilized using rip rap. 12'x55', 20'x30', 6'x30', 30'x60', and 10'x60'	Flooding	\$11,100.00
Knoxville Borough		Troups Creek/Cowauesqu e River Levee	Flooding	Build flood control levee.	Flooding	
Lawrenceville Borough	2	Switch to chlorine liquid at water and sewer plants	The two plants currently use chlorine gas in the disinfecting process. This causes 10,000 gallons of water to unnecessarily be dumped into the river. Also using gas, the workers shoud have safety breathing apparatus, which is not provided. Chlorine gas also provides a highly flammable enviornment while in sotrage.	Purchase chlorine liquid to use in the disinfecting process instead of chlorine gas. Need to dispose of unused chlorine gas. Changeover and machinery necessary to allow usage of liquid.	Hazardous materials	\$5,000.00
Lawrenceville Borough	2	Cots for Emergency Shelter	Lawrenceville Volunteer Fire Department has just ben declared an emergnecy shelter fot he borough and surrounding areas. The fire department doesn't have cots.	Purchase cots for the local fire station in the casae of an emergency so residents would have a place to sleep at the emergency shleter. (200 cots, bedding & pillows)	All-hazards	\$22,000.00
Lawrenceville Borough	3	Clean Storm Drains	The storm drain covers need to be cleaned of years of buld up of debris. This will help with drainage in the borough.	All storm drain covers in the borough need to be removed and all built-up debris needs to be cleaned out.	Flooding	
Lawrenceville Borough	4	Culvert Repair	The culvert under the Tioga River Road has shifted and cracked. Per DEP mandate, this must be corrected in order to pass the next dike inspection.	The culvert needs to be resealed and shifted back into place to prevent leaking and more cracking.	Flooding	\$10,000.00

	Community		Mitigation			
Municipality	Rank	Project Name	Description of Problem to be Solved	Project Description	Hazard Mitigated	Total Cost
Lawrenceville Borough	4	Lawrenceville Dike Recertification	The dikes surrounding the borough currenlty do not pass DEP inspections and are not worthy of Army Corps of Engineer standards to be certified. This places the residents of the borough at risk of high flood insurance premiums to the extent that the premiums are cost prohibative.	The dikes must be recertified to prevent risk of needing flood insurance. The Army Corp of Engineers and DEP mandate the processes the borough must take to recertify.	Flooding	\$500,000 or more
Lawrenceville Borough	4	Sewer infiltration issues	The curren tpiping within the borough is the original ceramic piping and it is cracked and leaking. During periods of rain/snow the capacity of the sewer plant is often pushed to three or more times its capacity. This causes overflow from the sewer plant to run into the neighboring rivers.	The existing sewer pipe needs to be sleeved with newer, stronger, and more durable piping.	Flooding	\$700,000.00
Lawrenceville Borough	4	Tree removal from dike	There is a large burr Oak Tree situated on the dike within the borough. The removal of the tree is imperative to pass the next dike inspection. If the tree were to fall down, there is a great risk of the dike being breached due to the large root structure of the tree.	All of the root structure must be removed. The remaining deficit must be filled with material and covered with sod per DEP approval.	Levee/dike	\$10,000.00
Lawrenceville Borough	4	Water Plant Generator	The local water plant requries a new generator to allow continuous operation of the plant during extended periods of loss of power. Without power, clean water is unable to be provided to the residents.	Purchase and install a back-up generator to provide power to the water plant duirng power interruptions.	Utility	\$55,000.00
Lawrenceville Township		Wheeler Road- Route 328	Bridge washed out years ago. West End of Wheeler Road. Bridge on East End of Wheeler Road is the only exit for Route 328. Wheeler Road 1 mile long has mobile homepark 70 homes and 6 residental.	New Bridge across Mutton Lane Creek West End Wheeler Road to Route 328.	Transportation	\$1,000,000.00
Liberty Borough	1	Derek Zay - Vice President	Install a natural gas generator to provide complete power to the borough building during times of storms or other disaster or emergency. This will allow a safe/dry/warm place for the community to go for shelter during these times.	Install secondary power that can be ran on exisitng natural gas and can provide full power to the borough building in case of an emergency or power outage lasting more than a day.	Natural Gas/Power	\$10,000.00
Liberty Township		Salt Springs GRS Bridge Project	Widen and replace both bridges	Design and construct two separate GRS bridges on Salt Springs Road.	Transportation	\$600,000.00
Middlebury Township	1	Traffic control light at intersection of Rts 249 and 297	Put in traffic control at intersection of 249 and 287. Hazard to safety of residents.	Install traffic light.	Transportation	

	Community		Mitigation	Measures			
Municipality	Rank	Project Name	Description of Problem to be Solved	Project Description	Hazard Mitigated	Total Cost	
Morris Township	1	Blackwell Flood Warning System	The village of Blackwell is located on Pine Creek, in the south west corner of Morris Township, at the sound end of the Pennsylvania Grand Canyon. FIRM 42117C0617D. A majority of this small village is in the "1% Annual Chance of Flood Hazard" area. History shows that this area is susceptible to flooding caused by ice jams as well as heavy rain events in its water shed area.	Install a flood warning system in the area of the SR414 bridge crossing Pine Creek. A unit that will warn the local residents of high ware or quickly rising water. Locally sounding a warning siren and also contacting Tioga County communication center that can dispatch our local fire/EMS and also Lycoming County communications center that can dispatch and alert the communities downstream.	Flooding	\$45,000.00	
Morris Township	2	Dixie Run Storm Water Mitigation	There are two locations on Township Road T-309 Dixie Run Road, where Dixie Run passes under the road in culverts. During severe rain storms these two culverts are unable to handle the storm surge and water flows across the road causing damage.	Replace these two culverts and their head walls with larger diameter pipes and precast concrete head wall blocks.	Flooding	\$20,000.00	
Morris Township	3	Township Building Generator	In the event of an emergency or disaster in Morris township, the Morris Township Fire Company social hall would be used as the local emergency operations center and/or a shelter. The fire company social hall is equipped with a generator, kitchen and bathrooms adequate to handle a large number of people. However, the fire company social hall is also located in the "1% annual chance flood hazard" area. In the unlikely chance of the emergency or disaster, being a flood, the fire company social hall would not be able to be utilized. The Morris Township Municipal Building would be then be set up as the local emergency operations center and/or shelter. The township building has a small kitchen, bathroom and adequate room to handle a large number of people. However, it does not have a generator for back-up power to provide lights and heat.	The Morris Township board of Supervisors would like to equip the Morris township Municipal building with a back-up generator.	Flooding/Utility	\$20,000.00	
Nelson Township		Emergency Generator for County	Supply shelter and power for the complete township	Size a generator and install	Power and Gas	\$35,000-\$45,000	
Osceola Township	1	Osceloa Power Generation	Provide electric to township emergency operations center and provide limited number of generators during power outage.	Purchase generators to provided power during power outage. 20 KW and five 5-KW generators.	Utility	\$13,992.00	
Osceola Township	2	Red House Hollow Road	Flooding and erosion of road during rain storms.	Build up road, work on ditches and water drainage.	Flooding		
Osceola Township	3	Holden Brook	Erosion caused by winding stream, intentions are to straighten parts of stream to minimize erosion and potential flooding.	Straighten parts of stream.	Flooding		
Putnam Township		Backup Emergency Generator	Would like to install generator to provide electric for residents to come to for a shelter at Covington Community Center	Generator installation	Electricity	\$50,000.00	

	Community		Mitigation	Measures		
Municipality	Rank	Project Name	Description of Problem to be Solved	Project Description	Hazard Mitigated	Total Cost
Richmond Township		S. Bullock Crossing Replacement	South Bullock Road box culvert replacement.	Replace box culvert.	Flooding	\$393,248.55
Roseville Borough	1	Clean out Sluice	Clean up banks along Route 549.	Keep banks cleaned free of debris.	Flooding	\$5,000.00
Roseville Borough	2	Community Building Generator	Upgrade for building to become warming/cooling shelter.	Install on-demand generator.	Utility	\$8,000.00
Roseville Borough	4	Roseville Ave. Bridge	Sediment and natural debris build- up under bridge.	Clean out under bridge and banks to make sure no build-up or back- up occurs.	Flooding	\$15,000.00
Roseville Borough	5	Benson Ave. Sluice	Cleaning out sluice with possibility of replacement.	Clean out, possible replacement of sluice pipe.	Flooding	\$15,000.00
Roseville Borough	6	Mill Creek Bank Build up	Build dike to keep water out of yard and in the creek.	Build up Mill Creek bank on north side. To keep water in the creek and out of residents' yard.	Flooding	\$10,000.00
Roseville Borough	8	Pumkinhill Slide	Install guard rail to keep cars from going over bank	Have PennDOT install guardrail.	Transportation	
Rutland Township	1	Remove gravel from waterway along T858	Excess gravel in waterway causes erosion of Township Road 858 at junction with Rt. 549 in times of excess rainfall.	Remove excess gravel and create more effective drainage.	Flooding	\$2,500.00
Rutland Township	2	Remove gravel from waterway along T860	Excess gravel in waterway causes erosion of township road 860 at junction with Rt. 549 in times of excess rainfall.	Remove excess gravel and create more effective drainage.	Flooding	\$2,500.00
Rutland Township	3	Sherman Lane Bridge retaining wall	Excess erosion is causing deterioration of existing retaining wall, at the entrance end of the bridge.	Remove bank and replace existing wall.	Transportation	\$10,000.00
Shippen Township	1	Township Road 819	Creek bank erosion to edge of roadway. 70' of erosion has occurred in the past four years, road will soon be into the roadway.	Install R8 rock along creek bank to stop erosion.	Flooding	
Shippen Township	2	Straight Run Road Bridge	Bridge scouring along bridge walls.	Raise natural creek bed by placing rock at bridge outlet to have creak bed raise above scouring.	Flooding	
Sullivan Township		Welch Mt. Road	Road has to be built up to be above flood plain, and durable rock has to be placed to stop erosion or creek and washing out of roadway.	Build up road, place rock along creek bank.	Flooding	\$75,250.00
Tioga Township		Mitchell Creek Stream Cleaning	Cleaning of gravel buildup, which is causing the possibility of property flooding.	Remove the gravel build up from Stream Mill Creek to the Tioga River.	Flooding	
Tioga Township		Shanty Creek Culvert Replacement	Prevent the washout of Barber Hollow Road and stream banks. In 1995 there was a fatality at this location due to the road washing out.	Replace 84" of pipe with two barrel 7x7 box culverts.	Flooding & Transportation	\$190,000.00
Tioga Township		Mitchell Creek Road Bridge Replacement	The deteriorating condition of the bridge is becoming a safety issue.	Replace the bridge with a new structure.	Transportation	\$250,000.00
Ward Township		Church Road Sluice Pipe	Replace sluice pipe with a larger plastic pipe. The head walls and tail walls are falling in.	Replace sluice pipe with a 36" plastic pipe, use concrete block to rebuild head and tail walls.	Flooding	\$5,000.00
Wellsboro Borough	1	Charleston Street Bank wall Repair	Repair deteriorating bank wall	Repair laid up stone wall where deteriorating.	Flooding	\$6,000.00
Wellsboro Borough	1	Cone Street Bank wall Repair	Repair laid up stone wall	Repair/replace laid up stone wall.	Flooding	\$12,000.00
Wellsboro Borough	1	Crafston Street Bank wall Repair	Repair/replace laid up stone wall.	Repair/replace deteriorating stone wall.	Flooding	\$12,000.00
Wellsboro Borough	1	Morris Lane Bank wall Repair	Repair laid up stone wall	Repair/replace deteriorating stone wall.	Flooding	\$7,000.00
Wellsboro Borough	1	Queen Street Bank wall Repair	Repair deteriorating stone wall	Repair/replace sections of missing stone wall.	Flooding	\$10,000.00

	Community		Mitigation			
Municipality	Rank	Project Name	Description of Problem to be Solved	Project Description	Hazard Mitigated	Total Cost
Wellsboro Borough	1	West Ave. Bank wall Repair	Repair deteriorating bank wall	Replace laid up stone wall.	Flooding	\$4,000.00
Wellsboro Borough	2	Emergency Generator for County	Replace aged back-up generator for county back up.	Replace generator	Utility	\$45,000.00
Wellsboro Borough	3	Morris Branch Sediment Removal	Removal of accumulated sediment to increase channel flow.	Remove sediment.	Flooding	\$4,000.00
Wellsboro Borough	3	Sanders Creek Sediment Removal	Remove debris and sediment from creek bed.	Remove debris and sediment from creek bed.	Flooding	\$4,000.00
Wellsboro Borough		Main Street Bank wall Repair	Repair Laid up stone wall.	Repair/replace deteriorated stone wall.	Flooding	\$12,000.00
Westfield Borough		Gravel and Debris Removal	To keep waterways open and help reduce the flooding risk.	Remove gravel bars and debris from the Cowanesque River and Mill Creek as needed.	Flooding	\$10,000.00
Westfield Borough		Harvey Wellhouse Generator Upgrade	Emergency generator for municipal water source may not be adequate in power outage.	To evaluate emergency generator and upgrade or replace if needed.	Utility	\$50,000.00
Westfield Borough		Riverbank Stabilization	Eroding river banks with possible loss of land for residents.	To install bank stabilization such as rip rap, gabian baskets or a wall.	Flooding	\$50,000.00
Westfield Borough		Storm Water Upgrade	Prevent inflow and infiltration into sanitary sewer from eaves and sump pumps as well as stormwater system. Assess stormwater system.	Perform study of stormwater system to see if adequate. Inspection and testing for sump pumps and eaves connected to sanitary sewer.	Flooding	\$100,000.00
Westfield Borough		Western Building Demolition	To remove old tannery buildings that are a fire hazard and could cause hazardous run off into Mill Creek.	Demolition of old buildings. Tioga County Development Corporation in process of obtaining funds for project.	Fire	\$2,000,000.00
Westfield Borough		Municipal Building Emergency Generator	Provide power for emergency operations center during power outages. Municipal building houses the fire company, police department and DPW.	Purchase and install natural gas generator to replace small portable generator	Utility	\$30,000 - \$40,000
Westfield Township	1	Howland Hill Bridge Replacement	Replace bridge approached, this is a wooden bridge approximately 40 years old that spans over Temison Creek Run.	Replace 4year old wooden bridge on T-374 Howland Hill Road. Replace approaches, east end exits on RT 249. Clean out creek and rip rap on both sides of bridge and approaches.	Transportation	\$825,000.00
Westfield Township	2	Back Mill Road	Road is caving off towards the river. Currently repairing once or twice a year.	Repair road by placing rip rap on creek bank. Tar and chip section of the road.	Transportation	\$132,757.75