

Interview Template: Town of Arkwright

Table 1. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Arkwright	Notes
Plans		
Comprehensive Plan	No	
Capital Improvement Plan	Yes	
Economic Development Plan	Yes	
Local Emergency Operations Plan	No	
Continuity of Operations Plan	Yes	
Transportation Plan	Yes	
Stormwater Management Plan	No	
Community Wildfire Protection	No	
Pandemic Response Plan	Yes	2021
Open Space	No	
Development Approvals		
Building Code	Yes	
Building Code Effectiveness Grading Schedule (BCEGS) Score	No	
Fire department ISO rating	No	
Site plan review requirements	No	
Land Use Regulations		
Zoning ordinance	Yes	
Subdivision ordinance	No	
NFIP Participant/Floodplain ordinance	Yes	
Natural hazard specific ordinance	No	
Flood insurance rate maps	No	
Acquisition of land for open space and public recreation	No	
Administration		
Planning Commission	No	
Mitigation Planning Committee	No	
Maintenance programs to reduce risk	No	
Mutual aid agreements	No	
Staff		
Chief Building Official	No	

Table 1. Planning Mechanisms and Capabilities

Planning Mechanism	Town of Arkwright	Notes
Floodplain Administrator	Yes	Supervisor
Emergency Manager	Yes	
Community Planner	Yes	
Civil Engineer	No	
GIS Coordinator	No	
Technical Abilities		
Warning systems/services	No	
Hazard data and information	Yes	
Grant writing	No	
HAZUS analysis	No	
Funding Resources		
Capital improvements project funding	Yes	
Authority to levy taxes for specific purposes	Yes	
Fees for water, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Storm water utility fee	No	
Incur debt through general obligation bonds and/or special tax bonds	No	
Incur debt through private activities	No	
Community Development Block Grant	Yes	
Other federal funding programs	Yes	
State funding programs	Yes	
Programs/Organizations		
Local citizen groups or non-profit organizations focused on environmental protection emergency preparedness, access and functional needs	No	
Ongoing public education or information program	No	
Natural disaster or safety related school programs	No	
Storm Ready certification	No	
Firewise Communities certification	No	
Public-private partnership initiatives addressing disaster-related issues	No	

Table 2. Emergency Shelters						
Facility	Address	Owner/ Occupant	Support medical needs?	ADA Compliant?	Pets accepted?	Notes
Highway Garage	9531 Center Road, Fredonia, NY			Yes	Yes	

Table 3. Critical Infrastructure in the Town of Arkwright		
Facility Name	Address	Located in Floodplain*
Community Services		
Town Hall (used for voting, monthly meetings, etc.)	9535 Center Road	
Emergency Services		
Federal Facilities		
Schools		
County and Municipal Facilities		
Charles Zink Pond Dam		
Robert Francis Farm Pond Dam		

**Based on HAZUS-modeled 100-year and 500-year floodplains*

Table 4. Severe Storm Event Records for the Town of Arkwright

Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage	Description of Event
Thunderstorm Wind	6/16/1998		\$15000	0	Scattered thunderstorms crossed the area during the early evening hours. The thunderstorm winds downed trees and power lines. The heavy rains which accompanied the thunderstorms resulted in widespread poor drainage and urban flooding in the Rochester metro area.
Thunderstorm Wind	7/31/2000		\$75000	0	A thunderstorm crossed Chautauqua county and produced damaging winds in the town of Arkwright. Trees were uprooted and animal pens tipped over. A 26' camping trailer on Partridge road was flipped over several times by the wind and landed fifty feet away from its original position. A garage also on Partridge road sustained damage when the door was blown out.
Thunderstorm Wind	6/8/2003	65	\$5000	0	Thunderstorms that crossed the western southern tier region during the evening hours produced damaging winds, downing trees and power lines. Power lines were reported down in Findley Lake, Forestville, Arkwright, Hamburg and East Aurora. Trees were reported down in Silver Creek, Ellicottville, and Pomfret.
Thunderstorm Wind	6/23/2015	50	\$10000	0	An area of showers and thunderstorms moved across the lower Great Lakes region during the overnight and very early morning hours. The first round of showers moved across southern Ontario and cross the Buffalo area before moving across the Genesee Valley and western Finger Lakes. The second round moved across Lake Erie into the western southern tier. The thunderstorms produced strong winds that downed trees and power lines. Several of the downed trees damage structures and cars. Some roads were temporarily blocked by debris.
Thunderstorm Wind	10/15/2017	50	\$5000	0	Thunderstorms ahead of and along an approaching strong cold front produced damaging winds during the afternoon and early evening hours. The thunderstorm winds downed trees and power lines throughout the region. Wind gusts were measured to 63 mph at Rochester Airport and 66 mph at Oswego County Airport. Several homes and cars were damaged by falling trees including ones in Depew, Sinclairville, Avon, Fairport, Victor, Dansville, and Canandaigua. In Arcade, Wyoming County, a commercial sign was blown down. Several roads were closed by fallen trees and debris.
Total			\$110,000	\$0	

Table 5. Hazard Analysis Criteria

Score	Extent	Onset	Impact	Frequency	Total Score	Overall Vulnerability
1	One location	Days of warning	Minor damages/ injuries	Rare	4 to 5	Low
2	Several locations	Hours of warning	Moderate damages/ injuries	Infrequent	6 to 8	Moderate
3	Large area	No warning	Severe damages/ injuries	Regular	9 to 12	High

Table 6. Hazard Vulnerability by Event

Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Overall Vulnerability	Jurisdiction Rank
Drought	3	1	2	1	7	5
Flood	2	2	3	2	9	3
Extreme Temperatures (Heat Wave, Cold Wave)	3	1	2	2	8	4
Ice Jam	2	3	2	1	8	4
Ice Storm	3	2	3	2	10	2
Landslide	2	3	2	1	8	4
Severe Thunderstorm/Windstorm	3	2	3	3	11	1
Tornado	3	2	3	1	9	3
Severe Winter Storm	3	2	2	3	10	2

**Table 7. Hazard Mitigation Action Progress
Town of Arkwright**

Proposed Mitigation Action	Hazard(s) Mitigated	Goals and Objectives Met	Implementing Agency	Status
Repair County Bridge #853, County Road 312; install flooding and erosion/ Canadaway Creek; install rip rap bed sills, weirs on banks/streambed that experience flooding erosion	Floods	Goal 1: Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge #76, County Road 312; remove gravel, sand and silt deposits that choke drainage structure causing roadway flooding and shoulder erosion	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges

**Table 7. Hazard Mitigation Action Progress
Town of Arkwright**

Proposed Mitigation Action	Hazard(s) Mitigated	Goals and Objectives Met	Implementing Agency	Status
Repair County Bridge 56, County Road 307 Walnut Creek – install rip rap bed sills wires on banks/streambed that experiences flood erosion	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge #51, County Road 306	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
County Bridge #52, County Road 306	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
County Bridge #53, County Road 306	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
County Bridge #39, County Road 307	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1; Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
County Bridge #40, County Road 307	Floods	Goal 1 Objective 1-1 Goal 2, Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge, #41, County Road 307	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges

**Table 7. Hazard Mitigation Action Progress
Town of Arkwright**

Proposed Mitigation Action	Hazard(s) Mitigated	Goals and Objectives Met	Implementing Agency	Status
Repair County Bridge, #55, County Road 307	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge, #64, County Road 307	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge #311, County Road 307	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge #843, County Road 307	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge #52, County Road 312	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge #987, Straight Road	Floods	Goal 1 Objective 1-1 Goal 2 Objective 2-1 Goal 4 Objectives 4-1 and 4-4	Town Administration	County owns the bridges
Repair County Bridge #846, Henry Road	Floods	Goal 1 All Objectives Goal 2 All Objectives Goal 6 Objectives 6-2, 6-3, and 6-4	Town Administration	County owns the bridges

**Table 7. Hazard Mitigation Action Progress
Town of Arkwright**

Proposed Mitigation Action	Hazard(s) Mitigated	Goals and Objectives Met	Implementing Agency	Status
Planning and zoning to work on prevention problems; Highway Department to work on storm water/erosion control, use of best management practices at all times	All Hazards	Goal 1 All Objectives Goal 2 All Objectives Goal 3 All Objectives Goal 6 Objectives 6-2, 6-3, 6-4, and 6-5	Town Administration	Ongoing

Chautauqua County HMP Update Mitigation Action Worksheet

Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Flooding of Canadaway Creek
Risk Vulnerability	
Hazard of Concern:	Flooding
Description of the Problem:	Canadaway creek floods bi-annually.
Proposed Action	
Description of the Solution	Planning and zoning to work on prevention problems; Highway Department to work on storm water/erosion control, use of best management practices at all times

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Medium	Estimated Benefits (Losses Avoided)	Mitigate flooding of Canadaway Creek.
Useful Life:	5 years		
Estimated Cost:	Low		

Plan For Implementation			
Priority (High, Medium, Low)	Medium	Responsible Organization:	Town
Desired Timeframe for Implementation:	<1 year	Potential Funding Sources:	Town Budget

Estimated Time Required to Implement:	A few weeks	Local Planning Mechanisms to be used in implementation, if any:	
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Three Alternatives Considered (Including Not Action)

Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions.
	<u>Educate Property Owners and Flood Mitigation Techniques:</u> Use outreach activities to facilitate technical assistance programs that address measures that citizens can take or facilitate funding for mitigation measures; Encourage homeowners to install backflow valves to prevent reverse-flow flood damages; Encourage residents in flood-prone areas to elevate homes	Low	Education and outreach activities will be very helpful to inform Town members of flooding mitigation techniques.

Progress Report (For Plan Maintenance)

Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or solution:	

Chautauqua County HMP Update Mitigation Action Worksheet

Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Reconstruct Ball Road and Repair Bridge
Risk Vulnerability	
Hazard of Concern:	Landslide
Description of the Problem:	Bridge on Ball Road is no longer existent because it has not been repaired. It has been closed for numerous years. The whole road needs reconstruction due to it not being in use anymore due to bridge being out. Emergency services cannot get to community members due to bridge not being in use. Road maintenance cannot be completed across the bridge. The area is very hilly and a landslide could go into the road. The bridge is in a landslide-prone area.
Proposed Action	
Description of the Solution	Reconstruct Ball Road and repair the bridge that is in a landslide-prone area.

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	High	Estimated Benefits (Losses Avoided)	If Ball Road is reconstructed it will be able to be used again, along with the bridge if it is repaired. The bridge currently is not in use.
Useful Life:	15 years		
Estimated Cost:	High		

Plan For Implementation			
Priority (High, Medium, Low)	High	Responsible Organization:	County (Town would take care of the road but the

			county would have to fix the bridge.
Desired Timeframe for Implementation:	1-3 years	Potential Funding Sources:	Pre-Disaster Mitigation Grant
Estimated Time Required to Implement:	A few years	Local Planning Mechanisms to be used in implementation, if any:	

Three Alternatives Considered (Including Not Action)

Three Alternatives Considered (Including Not Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions
	Repair only the bridge	High	Bridge that was there is likely out of code as it was last used several years ago.

Progress Report (For Plan Maintenance)

Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or solution:	

Chautauqua County HMP Update Mitigation Action Worksheet

Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Extreme Temperatures Awareness Campaign
Risk Vulnerability	
Hazard of Concern:	Extreme Temperature
Description of the Problem:	The Town of Arkwright experiences extreme temperatures relatively infrequently.
Proposed Action	
Description of the Solution	<u>Assist Vulnerable Populations</u> : Organize Outreach to vulnerable populations, including establishing and promoting accessible heating or cooling centers in the community; Require minimal temperatures in housing/landlord codes; Encourage utility companies to offer special arrangements for paying heating bills; Create database to track those individuals at high risk of death, such as the elderly, homeless, etc.

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Medium	Estimated Benefits (Losses Avoided)	Minimize the hardships and negative health impacts of the effects of extreme temperatures on vulnerable populations.
Useful Life:	1 year		
Estimated Cost:	Low		

Plan For Implementation			
Priority (High, Medium, Low)	Medium	Responsible Organization:	Town

Desired Timeframe for Implementation:	1-5 years	Potential Funding Sources:	Town or County budget
Estimated Time Required to Implement:	1 month	Local Planning Mechanisms to be used in implementation, if any:	

Three Alternatives Considered (Including Not Action)

Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions
	<u>Increase Awareness of Extreme Temperature Risk and Safety:</u> Educate citizens regarding the dangers of extreme heat and cold and the steps they can take to protect themselves when extreme temperatures occur	Low	Educate citizens about the dangers of extreme heat and how they can protect themselves. Reduce impact on citizens.
	<u>Educate Property Owners About Freezing Pipes:</u> Educate homeowners and builders on how to protect their pipes, including locating water pipes on the inside of building insulation or keeping them out of attics, crawl spaces, and vulnerable outside walls	Low	Prevent pipes from freezing.

Progress Report (For Plan Maintenance)

Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or solution:	

Chautauqua County HMP Update Mitigation Action Worksheet

Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Severe Thunderstorm/Windstorm Preparedness
Risk Vulnerability	
Hazard of Concern:	Severe Thunderstorm/Windstorm
Description of the Problem:	The Town of Arkwright experiences severe thunderstorms/windstorms frequently.
Proposed Action	
Description of the Solution	Increase Severe Wind Risk Awareness: Inform residents of shelter locations and evacuation routes; Educate homeowners on the benefits of wind retrofits such as shutters, hurricane clips; Ensure that school officials are aware of the best area of refuge in school buildings; Educate design professionals to include wind mitigation during building design.

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	High	Estimated Benefits (Losses Avoided)	Prevention of damage to infrastructure from severe thunder/wind storms.
Useful Life:	20 years		
Estimated Cost:	Low		

Plan For Implementation			
Priority (High, Medium, Low)	High	Responsible Organization:	Town
Desired Timeframe for Implementation:	1-3 years	Potential Funding Sources:	Pre-Disaster Mitigation Grant

Estimated Time Required to Implement:	3-6 months	Local Planning Mechanisms to be used in implementation, if any:	
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Three Alternatives Considered (Including Not Action)

Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions
	<u>Protect Power Lines and Infrastructure:</u> Establish standards for all utilities regarding tree pruning around lines; incorporate inspection and management of hazardous trees into the drainage system maintenance process; Upgrade overhead utility lines; Inspect utility poles to ensure they meet specifications and are wind resistant	Low-medium	Reduce likelihood of power outages and protect community members safety.
	<u>Increase Severe Wind Risk Awareness:</u> Inform residents of shelter locations and evacuation routes; Educate homeowners on the benefits of wind retrofits such as shutters, hurricane clips; Ensure that school officials are aware of the best area of refuge in school buildings; Educate design professionals to include wind mitigation during building design.	Low	Educate homeowners on how to prepare for severe thunderstorm/windstorms.

Progress Report (For Plan Maintenance)

Date of Status Report:	
Summary of Progress:	

Evaluation of the Problem and/or solution:	
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Chautauqua County HMP Update Mitigation Action Worksheet

Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Severe Winter Storm Educational Campaign
Risk Vulnerability	
Hazard of Concern:	Severe Winter Storm
Description of the Problem:	Severe winter storm events occur relatively frequently in the Town of Arkwright.
Proposed Action	
Description of the Solution	Conduct Winter Weather Risk Awareness Activities: Inform the public about severe winter weather impacts; Produce and distribute family and traveler emergency preparedness information about severe winter weather hazards; Include safety strategies for severe weather in driver education classes and materials

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Medium	Estimated Benefits (Losses Avoided)	Reduce negative impacts of severe winter storm events by educating the public about potential hazards.
Useful Life:	1 year		
Estimated Cost:	Low		

Plan For Implementation			
Priority (High, Medium, Low)	Medium	Responsible Organization:	Town

Desired Timeframe for Implementation:	1-3 years	Potential Funding Sources:	Town or County Budget
Estimated Time Required to Implement:	3 months	Local Planning Mechanisms to be used in implementation, if any:	

Three Alternatives Considered (Including Not Action)

Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions
	<u>Reduce Impacts to Roadways:</u> Plan for an maintain adequate road and debris clearing capabilities; Use snow fences or "living snow fences" to limit blowing and drifting of snow over critical roadway segments; Install roadway heating technology to prevent ice/snow buildup	Low	Reduce the travel hazards during severe winter storms.

Progress Report (For Plan Maintenance)

Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or solution:	

Chautauqua County HMP Update Mitigation Action Worksheet

Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Reduce impacts of ice storms
Risk Vulnerability	
Hazard of Concern:	Ice storm
Description of the Problem:	Ice storms occur relatively frequently in the Town of Arkwright.
Proposed Action	
Description of the Solution	Put road salt on the roads and treat the roads prior to the ice storm occurring. Ice control prevention.

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Medium	Estimated Benefits (Losses Avoided)	Minimizing the impacts of ice storms and keeping the roads safe in the winter.
Useful Life:	Ongoing		
Estimated Cost:	Low		

Plan For Implementation			
Priority (High, Medium, Low)	Medium	Responsible Organization:	Town
Desired Timeframe for Implementation:	1 year	Potential Funding Sources:	Town Budget

Estimated Time Required to Implement:	3-6 months	Local Planning Mechanisms to be used in implementation, if any:	
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Three Alternatives Considered (Including Not Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions
	<u>Assist Vulnerable Populations:</u> Develop a buddy network of concerned citizens who will check in on elderly, handicapped, low-income, or non-English speaking citizens; create a database to track those individuals at high risk of death	Low	It is important to keep vulnerable populations safe during an ice storm.
	Trim tree limbs near power lines that could potentially damage the power lines.	Low	Limit likelihood of power outages from trees damaging power lines

Progress Report (For Plan Maintenance)	
Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or solution:	

Chautauqua County HMP Update Mitigation Action Worksheet

Jurisdiction: Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Minimize impacts of droughts
Risk Vulnerability	
Hazard of Concern:	Drought
Description of the Problem:	The Town of Arkwright experiences droughts infrequently.
Proposed Action	
Description of the Solution	<u>Educate Residents on Water Saving Techniques</u> : encourage residents to install low - flow water saving showerheads/toilets; encourage installation of graywater systems in homes to encourage water reuse

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Low	Estimated Benefits (Losses Avoided)	Reduce impacts of droughts in Town of Arkwright when they occur.
Useful Life:	1 year		
Estimated Cost:	Low		

Plan For Implementation			
Priority (High, Medium, Low)	Low	Responsible Organization:	Town
Desired Timeframe for Implementation:	1-5 years	Potential Funding Sources:	Town or County budget
Estimated Time Required to Implement:	1 month	Local Planning Mechanisms to be used in implementation, if any:	

Three Alternatives Considered (Including Not Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions
	Plan for Drought: Develop a drought emergency plan; Develop agreements for secondary water sources that may be used during drought conditions	Low	Reduce impact of droughts on community members by having an emergency plan in place.
	Educate Farmers on Soil and Water Conservation Techniques: Encourage farmers to implement soil/water conservation practices, such as planting cover crops to prevent erosion; using reduced tillage to minimize soil disturbance	Low	Minimize use of water by implementing conservation techniques/practices.

Progress Report (For Plan Maintenance)	
Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or solution:	

Chautauqua County HMP Update Mitigation Action Worksheet

Jurisdiction: Town of Arkwright

Mitigation Action	
Project ID:	
Project Name:	Reduction of ice jam impacts
Risk Vulnerability	
Hazard of Concern:	Ice Jam
Description of the Problem:	The Town of Arkwright experiences ice jams relatively infrequently.
Proposed Action	
Description of the Solution	<u>Establish an Early Warning System:</u> Alert appropriate authorities and residents of ice jams through the use of ice motion detectors

Is this project related to a Critical Facility? Yes **No**

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Low	Estimated Benefits (Losses Avoided)	Reduce ice jam damage by being alerted early of ice jams.
Useful Life:	1 year		
Estimated Cost:	Low		

Plan For Implementation			
Priority (High, Medium, Low)	Low	Responsible Organization:	Town
Desired Timeframe for Implementation:	1-5 years	Potential Funding Sources:	Town or County budget
Estimated Time Required to Implement:	1 month	Local Planning Mechanisms to be used in implementation, if any:	

Three Alternatives Considered (Including Not Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0.00	No change from existing conditions
	<u>Monitor Streams for Ice Jams to Minimize Damage to Infrastructure:</u> Establish a regular schedule to monitor and report conditions on a monthly basis during the appropriate months	Low	Reduce ice jam damage by being able to prepare by frequently reporting conditions.
	Educate and Train Emergency Response Personnel on Measures that can be Taken in the Event of an Ice Jam/Storm: Ice weakening or breaking; mechanical weakening or removal; thermal weakening; hole drilling; ice excavation; use of tension weirs	Low	Educating emergency personnel on how what actions they can take to minimize the impacts of ice jams would be beneficial.

Progress Report (For Plan Maintenance)	
Date of Status Report:	
Summary of Progress:	

Evaluation of the Problem and/or solution:	
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