

HAZARD MITIGATION PLAN

Herkimer County, New York



APPENDICES



2024 (Approved)



Prepared By:
Tetra Tech, Inc.
6 Century Drive, Suite 300
Parsippany, NJ 07054



TABLE OF CONTENTS

APPENDICES

- Appendix A Adoption Resolutions
- Appendix B Participation Matrix
- Appendix C Meeting Documentation
- Appendix D Public and Stakeholder Outreach
- Appendix E Supplementary Data
- Appendix F Plan Maintenance Tools
- Appendix G Critical Facility Inventory
- Appendix H NYSDHSES Guidance
- Appendix I Linkage Procedures
- Appendix J Dam Failure
- Appendix K Public Comment



APPENDIX A. ADOPTION RESOLUTIONS

The Herkimer County and municipal adoption resolutions will be included in this appendix upon receipt of the Federal Emergency Management Agency (FEMA) Approval Pending Adoption (APA) status. Please refer to Section 8 (Planning Partnership) for additional information on plan adoption procedures.

This appendix also includes an example resolution to be submitted by Herkimer County and participating jurisdictions authorizing adoption of the Herkimer County Hazard Mitigation Plan Update.



RESOLUTION NO. XXXX-XX

A RESOLUTION OF THE **Governing Body** OF THE **Jurisdiction Name**

AUTHORIZING THE ADOPTION OF THE

2023 HERKIMER COUNTY, NY

HAZARD MITIGATION PLAN UPDATE

WHEREAS the **(local governing body)** recognizes the threat that natural hazards pose to people and property within **(local government)**; and

WHEREAS the **(local government)** has prepared a multi-hazard mitigation plan, hereby known as the 2023 Herkimer County Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS the 2023 Herkimer County Hazard Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in **(local community)** from the impacts of future hazards and disasters; and

WHEREAS adoption by the **(local governing body)** demonstrates their commitment to hazard mitigation and achieving the goals outlined in the (title and date of mitigation plan).

NOW THEREFORE, BE IT RESOLVED BY THE (LOCAL COMMUNITY), (STATE), THAT:

In accordance with **(local rule for adopting resolutions)**, the **(local governing body)** adopts the 2023 Herkimer County Hazard Mitigation Plan. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by a vote of ____ in favor and ____ against, and ____ abstaining, this ____ day of _____, _____.

By: _____

(print name)

ATTEST: By: _____

(print name)

APPROVED AS TO FORM: By: _____

(print name)

ABSTAIN: _____

Mayor, **City/Town/Village** of _____

ATTEST: _____

Clerk, **City/Town/Village** of _____

Village of Cold Brook, New York

RESOLUTION NO. 21 2024

A RESOLUTION OF THE Village Of Cold Brook Village Board ADOPTING THE 2023 Herkimer County Hazard Mitigation Plan

WHEREAS the Village Of Cold Brook Village Board recognizes the threat that natural hazards pose to people and property within Village of Cold Brook Village and

WHEREAS the Village Of Cold Brook Village Board has prepared a multi-hazard mitigation plan, hereby known as 2023 Herkimer County Hazard Mitigation Plan In accordance with the 2023 Herkimer County Hazard Mitigation Plan; and

WHEREAS 2023 Herkimer County Hazard Mitigation Plan Identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Village Of Cold Brook Village Board from the impacts of future hazards and disasters; and

WHEREAS adoption by the Cold Brook Village Board of Trustees demonstrates their commitment to hazard mitigation and achieving the goals outlined in the 2023 Herkimer County Hazard Mitigation Plan

NOW THEREFORE, BE IT RESOLVED BY THE Cold Brook Village Board of Trustees, New York THAT:

Section 1. In accordance with 2023 Herkimer County Hazard Mitigation Plan, the Cold Brook Village Board adopts the 2023 Herkimer County Hazard Mitigation Plan.

This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by a vote of 3 in favor and 0 against, and 0 abstaining, this 10th day of April, 2024.

By: Darlene H. Przeliski

(Sign name)

ATTEST: By: Kathy A Potempa

(Sign name)

APPROVED AS TO FORM: By: [Signature]

(Sign name)

Town of Columbia Resolution #2024-6 presented by Council Member

Leannee, seconded by Council Member Cotten.

To adopt the 2023 Herkimer County Hazard Mitigation Plan.

Whereas the Town of Columbia recognizes the threat that natural hazards pose to people and property within the Town of Columbia; and

Whereas the Town of Columbia has prepared a multi-hazard mitigation plan, hereby known as 2023 Herkimer County Hazard Mitigation Plan in accordance with the Disaster Mitigation Plan Act of 2022; and

Whereas the 2023 Herkimer County Hazard Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Town of Columbia from impacts of future hazards and disasters; and

Whereas adoption by the Town of Columbia demonstrates their commitment to hazard mitigation and achieving the goals outlined in the 2023 Herkimer County Hazard Mitigation Plan.

Now therefore, be it resolved by the Town of Columbia, Herkimer County, New York State, that:

The Town of Columbia adopts the 2023 Herkimer County Hazard Mitigation Plan by this resolution. This plan, approved by the community as represented by the Town of Columbia Town Council, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in five years.

By the order of the Town Council of the Town of Columbia, New York.

Nathan Seamon, Town Supervisor, Town of Columbia Signature

2/8/24

Date

Town of Columbia Resolution #2024-6 Roll Call Vote:

Council Member Cotton yes

Council Member Fagan yes

Council Member Learned yes

Council Member Reed yes

Supervisor Seamon yes

The Presiding Meeting Officer will declare Resolution adopted/approved, defeated, tabled, or no action.

VILLAGE OF DOLGEVILLE

**RESOLUTION OF THE VILLAGE OF DOLGEVILLE
ADOPTING THE HERKIMER COUNTY
HAZARD MITIGATION PLAN 2023**

Regular meeting of the Village Board of the Village of Dolgeville, held on the 13th day of February, 2024 at 6:00 p.m. at the Dolgeville Village Hall, 41 North Main Street, Dolgeville, New York.

Present: Mayor Puznowski, Trustees Eggleston, Jaquay and Madore (virtually)

Absent: None

Upon motion of Trustee Jaquay, seconded by Trustee Eggleston, the following resolution was introduced:

WHEREAS, the Village of Dolgeville recognizes the threat that natural hazards pose to people and property within Village of Dolgeville; and

WHEREAS, the Village of Dolgeville has prepared a multi-hazard mitigation plan, hereby known as Herkimer County Hazard Mitigation Plan 2023 in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the Herkimer County Hazard Mitigation Plan 2023 identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Village of Dolgeville from the impacts of future hazards and disasters; and

WHEREAS, adoption by the Village of Dolgeville demonstrates its commitment to hazard mitigation and achieving the goals outlined in the Herkimer County Hazard Mitigation Plan 2023.

NOW THEREFORE, BE IT RESOLVED, that the Village of Dolgeville hereby adopts the Herkimer County Hazard Mitigation Plan 2023. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

After motion duly made and seconded, the question of the adoption of the foregoing resolution was duly put to vote, which resulted as follows:


Ayes: 4

Nays: 0

The resolution was thereupon declared duly adopted.

CERTIFICATION

I, Tammy Chmielewski, am the Village Clerk of the Village of Dolgeville, and I certify that the above is a true copy of a resolution as passed by the Village of Dolgeville Village Board on February 13, 2024.


Tammy Chmielewski, Village Clerk

TOWN OF FRANKFORT

RESOLUTION OF THE TOWN OF FRANKFORT
ADOPTING THE HERKIMER COUNTY
HAZARD MITIGATION PLAN 2023

Regular meeting of the Town Board of the Town of Frankfort, held on the 22nd day of February, 2024 at 6:00 p.m. at the Frankfort Town Hall, 201 Third Avenue, Frankfort, New York.

Present: Supervisor Wallace, Councilmen Evans, Perritano, Tamburro and Tangorra

Absent: None

Upon motion of Councilman Evans, seconded by Councilman Perritano, the following resolution was introduced:

WHEREAS, the Town of Frankfort recognizes the threat that natural hazards pose to people and property within Town of Frankfort; and

WHEREAS, the Town of Frankfort has prepared a multi-hazard mitigation plan, hereby known as Herkimer County Hazard Mitigation Plan 2023 in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the Herkimer County Hazard Mitigation Plan 2023 identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Town of Frankfort from the impacts of future hazards and disasters; and

WHEREAS, adoption by the Town of Frankfort demonstrates their commitment to hazard mitigation and achieving the goals outlined in the Herkimer County Hazard Mitigation Plan 2023.

NOW THEREFORE, BE IT RESOLVED, that the Town of Frankfort hereby adopts the Herkimer County Hazard Mitigation Plan 2023. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

After motion duly made and seconded, the question of the adoption of the foregoing resolution was duly put to vote, which resulted as follows:

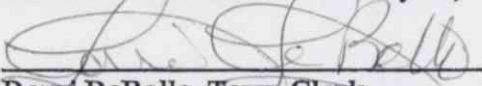
Ayes: 5

Nays: 0

The resolution was thereupon declared duly adopted.

CERTIFICATION

I, Dorri DeRollo, am the Town Clerk of the Town of Frankfort, and I certify that the above is a true copy of a resolution as passed by the Town of Frankfort Town Board on February 22, 2024.


Dorri DeRollo, Town Clerk

A RESOLUTION OF THE TOWN OF HERKIMER ADOPTING THE HERKIMER COUNTY HAZARD MITIGATION PLAN of 2023.

RESOLUTION NO. 9 of 2024

At a meeting of the Town Board of the Town of Herkimer, held at the Town Hall, 114 North Prospect Street, in the Town of Herkimer, Herkimer County, New York on the 5th day of February, 2024:

Present: Dominic Frank, Supervisor
 Daniel Stalteri, Councilman
 Randy Kast, Councilman
 Vito Carbone, Councilman
 Kathleen DeCarlo, Councilwoman

Absent:

WHEREAS the Town of Herkimer recognizes the threat that natural hazards pose to people and property within Town of Herkimer; and

WHEREAS the Town of Herkimer has prepared a multi-hazard mitigation plan, hereby known as Herkimer County Hazard Mitigation Plan of 2023 in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS Herkimer County Hazard Mitigation Plan of 2023 identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Town of Herkimer from the impacts of future hazards and disasters; and

WHEREAS adoption by the Town of Herkimer demonstrates their commitment to hazard mitigation and achieving the goals outlined in the Herkimer County Hazard Mitigation Plan of 2023.

NOW, on motion of Councilman Daniel Stalteri, seconded by Councilman Randy Kast, and all members present voting there for;

THEREFORE, BE IT RESOLVED BY THE TOWN OF HERKIMER, NEW YORK, THAT:

The Town of Herkimer adopts the Herkimer County Hazard Mitigation Plan of 2023. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

The foregoing Resolution was duly put to vote, which resulted as follows:

AYES: 5

NAYS: 0

This resolution was thereupon declared duly adopted.

CERTIFICATE OF RECORDING OFFICER

The undersigned hereby certifies that:

1. She is the duly qualified and acting Clerk of the Town of Herkimer and the custodian of the records of the Town of Herkimer, including the minutes of the proceedings of the Town Board; and is duly authorized to execute this certificate.

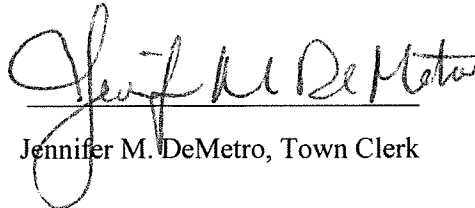
2. Attached hereto is a true and correct copy of a resolution duly adopted at a meeting of the Town Board held the 5th day of January, 2024 and entitled:

A RESOLUTION OF THE TOWN OF HERKIMER ADOPTING THE HERKIMER COUNTY HAZARD MITIGATION PLAN of 2023.

3. Said meeting was duly convened and held and said resolution was duly adopted in all respects in accordance with the law and the regulations of the Town. To the extent required by law or regulation, due and proper notice of said meeting was given. A legal quorum of the members of the Town Board was present throughout said meeting, and a legally sufficient number of members voted in the proper manner for the adoption of the resolution. All other requirements and proceedings under law, said regulations, or otherwise, incident to said meeting and the adoption of the resolution, including any publication, if required by law, have been duly fulfilled, carried out and otherwise observed.

4. The seal appearing below constitutes the official seal of the Town of Herkimer and was duly affixed by the undersigned at the time this certificate was signed.

IN WITNESS THEREOF, the undersigned as hereunto set her hand this 5th day of February, 2024.


Jennifer M. DeMetro, Town Clerk

(SEAL)

REGULAR MEETING February 5, 2024

RESOLUTION # 24-25

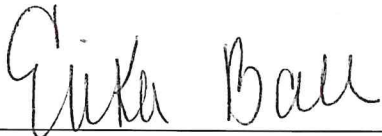
(VILLAGE OF HERKIMER, NY)

A RESOLUTION OF THE VILLAGE OF HERKIMER, NY ADOPTING THE HERKIMER COUNTY HAZARD MITIGATION PLAN 2023 WHEREAS the BOARD OF TRUSTEES recognizes the threat that natural hazards pose to people and property within VILLAGE OF HERKIMER; and

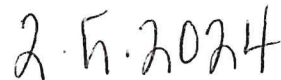
WHEREAS the VILLAGE OF HERKIMER has prepared a multi-hazard mitigation plan, hereby known as HERKIMER COUNTY HAZARD MITIGATION PLAN 2023 in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS HERKIMER COUNTY HAZARD MITIGATION PLAN 2023 identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in VILLAGE OF HERKIMER from the impacts of future hazards and disasters; and

WHEREAS adoption by the BOARD OF TRUSTEES demonstrates their commitment to hazard mitigation and achieving the goals outlined in the HERKIMER COUNTY HAZARD MITIGATION PLAN 2023



Attest by: Erika Ball, Deputy Clerk



Date

RESOLUTION # 21

Adoption of 2023 Town of Little Falls Herkimer County Hazard Mitigation Plan

On motion of Councilman Soules, seconded by Supervisor Casler, the following resolution was ADOPTED by roll call vote:

Supervisor Casler	Aye
Councilman Viscomi	Aye
Councilman Schwasnick	Aye
Councilman Sullivan	Aye
Councilman Soules	Aye

WHEREAS the Town of Little Falls recognizes the threat that natural hazards pose to people and property within Town of Little Falls; and

WHEREAS the Town of Little Falls has prepared a multi-hazard mitigation plan, hereby known as the 2023 Town of Little Falls Herkimer County Hazard Mitigation Plan, in accordance with the Disaster Mitigation Act of 2000; and

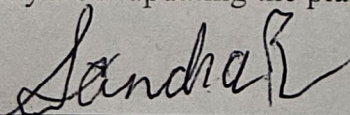
WHEREAS the Town of Little Falls identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Town of Little Falls from the impacts of future hazards and disasters; and

WHEREAS adoption by the Little Falls Town Board demonstrates their commitment to hazard mitigation and achieving the goals outlined in the 2023 Town of Little Falls Herkimer County Hazard Mitigation Plan

NOW THEREFORE, BE IT RESOLVED BY THE TOWN BOARD, TOWN OF LITTLE FALLS THAT:

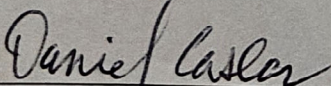
Section 1. In accordance with NYS General Municipal Law, the Town Board adopts the 2023 Town of Little Falls Herkimer County Hazard Mitigation Plan. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ATTEST: By: _____



Sandra Regan, Town Clerk

APPROVED AS TO FORM: By: _____



**Resolution #21
Mitigation Plan
February 6, 2024**

City of Little Falls, New York

RESOLUTION NO. 21

A RESOLUTION OF THE City of Little Falls Common Council ADOPTING THE Herkimer County Hazard Mitigation Plan, 2023

WHEREAS the City of Little Falls Common Council recognizes the threat that natural hazards pose to people and property within City of Little Falls Common Council; and

WHEREAS the City of Little Falls Common Council has prepared a multi-hazard mitigation plan, hereby known as Herkimer County Hazard Mitigation Plan 2023 in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS Herkimer County Hazard Mitigation Plan, 2023 identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in City of Little Falls from the impacts of future hazards and disasters; and

WHEREAS adoption by the City of Little Falls Common Council demonstrates their commitment to hazard mitigation and achieving the goals outlined in the Herkimer County Hazard Mitigation Plan, 2023.

NOW THEREFORE, BE IT RESOLVED BY THE City of Little Falls, New York, THAT:

Section 1. In accordance with (local rule for adopting resolutions), the City of Little Falls Common Council adopts the Herkimer County Hazard Mitigation Plan. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by a vote of 7 in favor and 0 against, and 0 abstaining, this 6th day of February, 2024.

Motion by Alderman Ruffing


Second by Alderman Carpineti

Roll Call: All in favor


Absent: Marhaver

By: _____

(print name)

ATTEST: By: 

Kira M. Miller, City of Little Falls City Clerk


Deborah Kaufman, City of Little Falls Mayor

APPROVED AS TO FORM: By: 

(print name)

TOWN OF MANHEIM, NY

RESOLUTION NO. 25

A RESOLUTION OF THE TOWN OF MANHEIM ADOPTING THE HERKIMER COUNTY HAZARD MITIGATION PLAN 2024.

WHEREAS the Town of Manheim, Town Board recognizes the threat that natural hazards pose to people and property within the Town of Manheim; and

WHEREAS the Town of Manheim Board has prepared a multi-hazard mitigation plan, hereby known as Herkimer County Hazard Mitigation plan of 2024 in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS Herkimer County Hazard Mitigation plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Town of Manheim from the impacts of future hazards and disasters; and

WHEREAS adoption by the Town of Manheim Board demonstrates their commitment to hazard mitigation and achieving the goals outlined in the Herkimer County Hazard Mitigation plan of 2024;

NOW THEREFORE, BE IT RESOLVED BY THE TOWN OF MANHEIM, NY, THAT:

Section 1. In accordance with (local rule for adopting resolutions), the Town Board adopts the Herkimer County Hazard Mitigation plan of 2024. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by a vote of 5 in favor and ___ against, and ___ abstaining, this 8th day of April 2024.

By: 

John Haughton, Town of Manheim Supervisor

ATTEST: By: 

Carrie Rockwell, Town of Manheim Clerk

Town Of Norway NY

RESOLUTION NO. 1

A RESOLUTION OF THE TOWN OF NORWAY ADOPTING THE LHMP 2024

WHEREAS the Town of Norway recognizes the threat that natural hazards pose to people and property within Norway; and

WHEREAS the Town of Norway has prepared a multi-hazard mitigation plan, hereby known as (title and date of mitigation plan) in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS LHMP 2024 identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Town of Norway from the impacts of future hazards and disasters; and

WHEREAS adoption by the Town of Norway demonstrates their commitment to hazard mitigation and achieving the goals outlined in the LHMP 2024.

NOW THEREFORE, BE IT RESOLVED BY THE Town of Norway, NY, THAT:

Section 1. In accordance with (local rule for adopting resolutions), the Town Of Norway adopts the LHMP 2024. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by a vote of 3 in favor and 0 against, and 0 abstaining, this 8th day of February, 2024.

By: Judy Gohney
(print name)

ATTEST: By: Judy Gohney
(print name)

APPROVED AS TO FORM: By: _____
(print name)

The above resolution is hereby adopted on this 8th day of February 2024
I have hereunto set fourth my hand and the town seal of Norway

MEMBER SEAL



Town Hall: 315-429-8581

FAX: 315-429-3493

townsalsclerk@gmail.com

JOHN MOWERS, SUPERVISOR

Council Members:

Renee Coonradt, Colleen Walrath, Kim Sherwood, Nora Cool-Guinup

STANLEY BILINSKI – TOWN CLERK

February 8, 2024

RESOLUTION 1-24

**RESOLUTION OF THE TOWN OF SALISBURY ADOPTING
HERKIMER COUNTY HAZARD MITIGATION PLAN 2023**

WHEREAS the town board recognizes the threat that natural hazards pose to people and property with the Town of Salisbury; and

WHEREAS the town board has prepared a multi-hazard mitigation plan, hereby known as Herkimer County Hazard Mitigation plan in accordance with the Disaster Mitigation Act of 2000: and

WHEREAS Herkimer County Hazard Mitigation Plan 2023 identifies mitigation goals and actions to reduce or eliminate long-term risks to people and property in the town of Salisbury from impacts of future hazards and disasters; and

achieving the goals outlined in the Herkimer County Hazard Mitigation Plan 2023.

NOW THEREFORE, BE IT RESOLVED BY THE TOWN BOARD OF THE TOWN OF SALISBURY, NEW YORK, THAT:

Section 1. in accordance with town law {131, the Town Board adopts the Herkimer County Hazard Mitigation Plan 2023. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by vote of 5 in favor and 0 against, and 0 abstaining, this 8th. day February, 2024.

By: *J. R. Mowers*

print name: John R. Mowers

ATTEST: By: *Stanley J. Bilinski*

print name: Stanley J. Bilinski, Town Clerk

WHEREAS the Town of Stark recognizes the threat that natural hazards pose to people and property within the Town of Stark; and

WHEREAS the Town of Stark has prepared a multi-hazard mitigation plan, hereby known as (2023 Herkimer County Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS 2023 Herkimer County Hazard Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Town of Stark from the impacts of future hazards and disasters; and

WHEREAS adoption by the Town of Stark demonstrates their commitment to hazard mitigation and achieving the goals outlined in the 2023 Herkimer County Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY THE Town of Stark, Herkimer County, New York THAT:

Section 1. In accordance with municipal Home Rule, the Town of Stark adopts the 2023 Herkimer County Hazard Mitigation Plan. This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by a vote of 5 in favor and 0 against, and abstaining, this 9th day of April , 2024 .

By: Richard E Bronner

(print name) Richard Bronner, Supervisor

ATTEST: By: Eleanor B Smith

(print name) Eleanor Smith, Town Clerk

APPROVED AS TO FORM: By: Gerard Snyder

(print name) Gerard Snyder, Town Attorney



PARTICIPATION MATRIX

Appendix B includes the participation matrix for meetings convened during the development of the Warren County Hazard Mitigation Plan Update.



Name	Department/ Agency/Municipality	Steering Committee Member	Planning Partnership Member	Stakeholder/Other	SC Meeting #1 - 8/9/22	Town Supervisors Meeting - 8/25/22	PP Meeting #1 - 9/26/22	Annex Support Meeting #1 - 10/12/22	Workshop Support Meeting #1 - 10/12/22	PP Homework Support Meeting - 10/12/22	SC Meeting - 1/17/23	PP Meeting - 2/27/23	Mitigation Strategy Workshop - 4/24/23	Town Supervisor's Meeting - 5/25/23	Annex Meetings (Various Dates)	Draft Plan Review - 7/25/23
Vincent (Jim) Bono	Herkimer County Legislature	X			X							X				
Rodney Denslow	Tractor Supply	X			X						X	X	X			X
Kathy Fox	Herkimer County Office of the Aging	X													X	
Paul Hoole	FEMA	X										X				
Adam Hutchinson	Herkimer-Fulton-Hamilton-Otsego BOCES	X			X											
Michael Lamb	Herkimer ARC	X			X											
Gabrielle Lewosko		X														
Michael Moody	Village of Herkimer	X			X											X
Brinton Muller	Bassett Healthcare	X			X											
Beth O'Reilly	NYSDHSES	X			X							X	X			
Matthew Palumbo	Village & Town of Frankfort	X									X					
Gerald Pedersen		X									X	X	X			
Maureen Petrie	Catholic Charities of Herkimer County	X			X						X					X
John Piseck	Herkimer County Industrial Development Agency	X			X				X							
John J. Raymond	Herkimer County Emergency Services	X			X	X	X	X	X	X	X	X	X	X	X	X
Richard (Rick) Reichert	Herkimer Oneida Counties Comprehensive Planning Program	X									X	X				X
Sheriff Scott Scherer	Herkimer County Sheriff Department	X			X							X			X	X



Name	Department/ Agency/Municipality	Steering Committee Member	Planning Partnership Member	Stakeholder/Other	SC Meeting #1 - 8/9/22	Town Supervisors Meeting - 8/25/22	PP Meeting #1 - 9/26/22	Annex Support Meeting #1 - 10/12/22	Workshop Support Meeting #1 - 10/12/22	PP Homework Support Meeting - 10/12/22	SC Meeting - 1/17/23	PP Meeting - 2/27/23	Mitigation Strategy Workshop - 4/24/23	Town Supervisor's Meeting - 5/25/23	Annex Meetings (Various Dates)	Draft Plan Review - 7/25/23
Gerry Smithson	Soil & Water	X														
John Stephens	Herkimer County Legislature	X			X								X			
Joseph Tomanio	Newport Telephone	X			X						X	X				X
Stephanie Tyoe	Herkimer County Highway Dept.	X			X						X	X	X		X	X
Robert (Bob) Vandawalker	Herkimer County Emergency Services	X			X				X	X			X			
James (Jim) Wallace	Herkimer County	X			X						X	X			X	
Diane Ward	Herkimer County Public Health	X			X								X		X	
Kelly Wares	Herkimer County Emergency Services	X														X
Shannon Clarke	NYS DHSES			X			X									
Shelby Meyers	NYS DHSES			X			X									
Betsy Parmerter	NYS DHSES											X	X			X
Roland Paperman	NYS DHSES											X	X			X
Jim Wilkinson	NYS DHSES											X	X			X
Kevin Clapp	NYS DHSES												X			X
George W. Weiss	Town of Columbia		X												X	
Mark Buddle	Town of Columbia								X	X			X		X	
Jeremy Pellerin	Town of Danube		X													
Richard Lindsey	Town of Fairfield		X													
Glenn D. Asnoe	Town of Frankfort		X												X	



Name	Department/ Agency/Municipality	Steering Committee Member	Planning Partnership Member	Stakeholder/Other	SC Meeting #1 - 8/9/22	Town Supervisors Meeting - 8/25/22	PP Meeting #1 - 9/26/22	Annex Support Meeting #1 - 10/12/22	Workshop Support Meeting #1 - 10/12/22	PP Homework Support Meeting - 10/12/22	SC Meeting - 1/17/23	PP Meeting - 2/27/23	Mitigation Strategy Workshop - 4/24/23	Town Supervisor's Meeting - 5/25/23	Annex Meetings (Various Dates)	Draft Plan Review - 7/25/23
Mishele Spaman	Town of Frankfort											X	X		X	
L. Peter Rovazzi	Town of German Flatts		X							X		X	X			
Richard Sweeney	Town of German Flatts									X						
Dominick Frank	Town of Herkimer		X						X	X		X	X			
James D. Entwistle	Town of Litchfield		X												X	
Mark C. O'Sullivan	Town of Litchfield									X					X	
Mark Blask	City of Little Falls		X													
"Chet" Chester P. Szymanski II	City of Little Falls									X		X	X		X	
Daniel Casler	Town of Little Falls		X							X					X	
John Haughton	Town of Manheim		X												X	
Michael McEvoy	Town of Newport		X													
Judith Gokey	Town of Norway		X													
Karen Mowers	Town of Ohio		X													
Frances Donley	Town of Russia		X						X	X						
John Mower	Town of Salisbury		X												X	
Barry Vickers	Town of Salisbury								X	X					X	
Anthony J. Lucenti	Town of Schuyler		X													
Ronald Beach	Town of Schuyler									X			X			
Richard Bronner	Town of Stark		X					X	X	X		X			X	



Name	Department/ Agency/Municipality	Steering Committee Member	Planning Partnership Member	Stakeholder/Other	SC Meeting #1 - 8/9/22	Town Supervisors Meeting - 8/25/22	PP Meeting #1 - 9/26/22	Annex Support Meeting #1 - 10/12/22	Workshop Support Meeting #1 - 10/12/22	PP Homework Support Meeting - 10/12/22	SC Meeting - 1/17/23	PP Meeting - 2/27/23	Mitigation Strategy Workshop - 4/24/23	Town Supervisor's Meeting - 5/25/23	Annex Meetings (Various Dates)	Draft Plan Review - 7/25/23
Lisa VanWinkler	Town of Warren		X													
Bonnie Baker	Town of Webb		X													
Charles W. Osborn	Town of Winfield		X													
Michael McEvoy	Town of Newport		X													
Judith Gokey	Town of Norway		X												X	
Gary Snyder	Town of Norway									X			X		X	
Karen Mowers	Town of Ohio		X													
Frances Donley	Town of Russia		X				X									
John Mower	Town of Salisbury		X													
Anthony J. Lucenti	Town of Schuyler		X													
Lisa VanWinkler	Town of Warren		X													
Bonnie Baker	Town of Webb		X													
Charles W. Osborn	Town of Winfield		X													
Kathy Potempa	Village of Cold Brook		X												X	
Marvin Jones	Village of Cold Brook							X	X			X	X		X	
Mary Puznowski	Village of Dolgeville		X												X	
Richard D. Adams Jr	Village of Frankfort		X												X	
Mark Netti	Village of Herkimer		X													
Brian D. Lamica	Village of Ilion		X												X	
Keith Jeffers	Village of Middleville		X													



Name	Department/ Agency/Municipality	Steering Committee Member	Planning Partnership Member	Stakeholder/Other	SC Meeting #1 - 8/9/22	Town Supervisors Meeting - 8/25/22	PP Meeting #1 - 9/26/22	Annex Support Meeting #1 - 10/12/22	Workshop Support Meeting #1 - 10/12/22	PP Homework Support Meeting - 10/12/22	SC Meeting - 1/17/23	PP Meeting - 2/27/23	Mitigation Strategy Workshop - 4/24/23	Town Supervisor's Meeting - 5/25/23	Annex Meetings (Various Dates)	Draft Plan Review - 7/25/23
James M. Baron	Village of Mohawk		X													
Marc Butler	Village of Newport		X					X	X						X	
Brian Dutcher	Village of Poland		X													
Scott Burnett	Village of Poland									X						
Andrew Bryce	Village of West Winfield		X					X							X	



APPENDIX C. MEETING DOCUMENTATION

Appendix C includes meeting agendas, sign-in sheets, and minutes (where applicable and available) for meetings convened during the development of the Herkimer County Hazard Mitigation Plan Update.

HERKIMER COUNTY HAZARD MITIGATION PLAN - 2023 UPDATE
Project Management Team Meeting – Agenda
6/8, 2022 at 9:00 am



- Scope and Schedule
 - Brief review of our approved proposal
 - Grand performance period (copy of Grant Agreement)
 - Project schedule

- Municipal Participation – Letters of Intent to Participate
 - Email to all municipal coordinators (Email and LOIP template)
 - Identify any group meetings to leverage for the mitigation planning process

- Review Steering Committee Composition - refer to 2011 Steering Committee members

- Information and Data Collection
 - GIS Point of Contact for spatial data
 - Previous (2017) critical facility list – PCII data
 - Arrange GIS collection meeting
 - Data Wish List
 - Lifelines – FEMA incorporating into mitigation
 - NFIP data request
 - CAV dates and list of floodplain administrators
 - Point of Contact for reviewing Public Information (brochure/surveys/announcements)
 - Draft content for website update, newsletter, social media content, and public meeting announcements

- Meeting Logistics
 - Schedule first Steering Committee meeting
 - Schedule HMP Kick-Off (public?)
 - Date and Location

- Hazard of Concern Identification
- Plan Style Guide
- Communications Guide
- In-Kind Tracking
 - County can begin tracking all time with the development of RFP, reviews, meetings, this call etc.
 - Tetra Tech to track meeting attendance for all participants

Documents:

Municipal Letter of Participation Request
Project Schedule
Data Wish List
In-Kind Tracker
NFIP Request Letter/ISAA





HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee #1 – AGENDA
MEETING DATE/TIME: August 9, 2022 – 2:00 pm



In-Person/Hybrid Meeting: Herkimer County Emergency Services, 911 Center, 71 Reservoir Road, Herkimer, NY 13350

Remote – MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – Dial-in by phone (audio only) - [+1 518-300-1367,,453227155#](#) United States, Albany; Phone Conference ID: 453 227 155#

- 1. Welcome and Introductions**
- 2. Hazard Mitigation Plan Overview**
- 3. Project Organization**
- 4. Steering Committee Composition and Ground Rules**
- 5. In-Kind Services Tracking**
- 6. Planning Process and Data Collection Status**
- 7. Hazards of Concern Identification**
- 8. Critical Facilities and Lifelines**
- 9. Mission Statement, Goals, and Objectives**
- 10. Conclusion and Next Steps**



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Purpose of Meeting:	Steering Committee Meeting
Location of Meeting:	Hybrid In-person and Teleconference Teams Meeting
Date of Meeting:	August 9, 2022, 2:00 pm – 3:05 pm

Attendees:

Vincent (Jim) Bono	Herkimer County Legislature
Rodney Denslow	Tractor Supply
Adam Hutchinson	Herkimer-Fulton-Hamilton-Otsego BOCES
Michael Lamb	Herkimer ARC
Michael Moody	Village of Herkimer
Brinton Muller	Bassett Healthcare
Elizabeth O'Reilly	NYSDHSES
Maureen Petrie	Catholic Charities of Herkimer County
John Piseck	Herkimer County Industrial Development Agency
John J. Raymond	Herkimer County Emergency Services
Sheriff Scott Scherer	Herkimer County Sheriff Department
John Stephens	Herkimer County Legislature
Joseph Tomanio	Newport Telephone
Stephanie Tyoe	Herkimer County Highway Dept.
Robert (Bob) Vandawalker	Herkimer County Emergency Services
James (Jim) Wallace	Herkimer County
Diane Ward	Herkimer County Public Health
Jennifer Romano	NYSDHSES/OEM
Cynthia Addonizio-Bianco	Tetra Tech

Agenda Summary:

Item No.	Description	Action item(s):
1	<p>Welcome and Opening Remarks</p> <ul style="list-style-type: none"> Meeting started at 2:00 pm John Raymond, Director of Herkimer County Emergency Services gave opening remarks providing an overview of the importance of this planning process and thanking the participants for agreeing to serve on the Steering Committee. Cynthia Addonizio-Bianco, project manager from Tetra Tech (Tt), also thanked participants. Elizabeth O'Reilly of NYSDHSES noted that hazard mitigation is a diverse subject and can cross the line between recovery and response. The purpose of the mitigation plan is to reduce the amount of response potentially necessary against natural hazards. She 	



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<p>indicated that NYSDHSES will provide support as needed throughout the mitigation planning process.</p>	
<p>2</p>	<p>Project Overview</p> <ul style="list-style-type: none"> • Ms. Addonizio-Bianco provided the following information: <ul style="list-style-type: none"> ○ An overview of hazard mitigation, what it is and how it can provide increase resilience through the development of a FEMA-approved Hazard Mitigation Plan. She also noted the need to track time spent working on the plan outside of meetings through in-kind tracking to provide match for federal funding support for the planning effort. An online tracker will be sent out to all plan participants. ○ An overview of the phases of the hazard mitigation planning process including description of the project organization: <ul style="list-style-type: none"> ▪ Core Planning Team (CPT) ▪ Herkimer County Emergency Services, Herkimer/Oneida Counties Comprehensive Planning Program, Tetra Tech ○ Steering Committee (SC) <ul style="list-style-type: none"> ▪ Numerous County Departments, Major Businesses, Outside Agencies, 2 municipal representatives ○ Planning Partnership (PP) <ul style="list-style-type: none"> ▪ All participating municipalities and Steering Committee members. ○ FEMA ○ Stakeholders • Steering Committee roles and responsibilities: <ul style="list-style-type: none"> ○ Provide guidance and leadership ○ Oversee the planning process ○ Act as point o contact for partners and stakeholders • Focus on updating the 2017 critical facilities inventory to ensure completeness and identify lifeline facilities. The County and planning partners will provide input to update the list of critical facilities and lifelines via an online survey. Once updated, the information will be used during the risk assessment and mitigation strategy development. • Request for relevant plans and studies. • Ms. Addonizio-Bianco noted that participants will be given access to OneDrive to share documents and information. 	<ul style="list-style-type: none"> • Tt to provide SC member access to the project OneDrive site and Steering Committee members to confirm access to OneDrive – access to be provided in separate email • Critical facility inventory survey to be distributed by Tt to the County and municipal representatives.
<p>3</p>	<p>Risk Assessment and Hazards of Concern</p> <ul style="list-style-type: none"> • Ms. Addonizio-Bianco discussed the process of the risk assessment and reviewed the hazards of concern identified in the last HMP. These hazards of concern will need to be reviewed and updated as necessary. A survey will be sent out to the Steering Committee. • Ms. Addonizio-Bianco noted that NFIP data gathering for information on policies, losses, and NFIP assistance visits is underway. 	<ul style="list-style-type: none"> • Steering Committee to provide input to update Hazards of Concern– to be distributed by and returned to Tt via email.



Herkimer County
 Hazard Mitigation Plan Update
 Meeting Notes

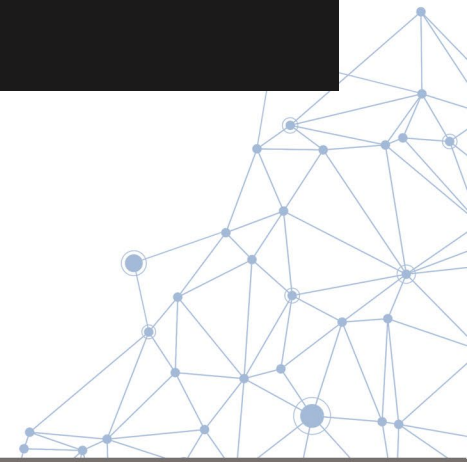
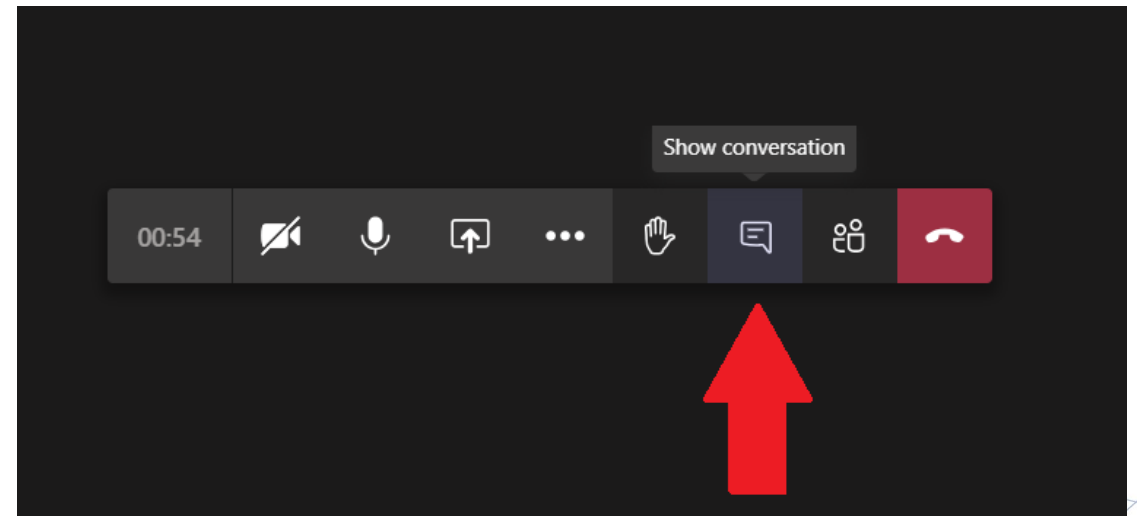


4	<p>Goals and Objectives</p> <ul style="list-style-type: none"> • Ms. Addonizio-Bianco noted that the last HMP did not have a mission statement and recommended the addition of a statement to summarize the purpose of the plan. • Ms. Addonizio-Bianco introduced the goals and objectives from the last HMP and provided suggestions to update them to align with current priorities. The Steering Committee as tasked with reviewing the mission statement, goals and objectives to provide feedback to guide the plan update. 	<ul style="list-style-type: none"> • Steering Committee to provide input – to be distributed by and returned to Tt via email.
5	<p>Upcoming Meetings</p> <ul style="list-style-type: none"> • Ms. Addonizio-Bianco reviewed upcoming meetings: <ul style="list-style-type: none"> ○ Steering Committee Meeting – September 20th, 2022* ○ Planning Partnership – September 26th, 2022 ○ Risk Assessment Meeting – November 15th, 2022 (<i>tentative</i>) ○ <i>Planning Partnership Risk Assessment Meeting – November 28th (tentative)</i> ○ Mitigation Strategy Workshop – January 23rd, 2023 (<i>tentative</i>) 	<p><i>*Post meeting note - this meeting is rescheduled for September 27th at 2 pm.</i></p>
6	<p>Next Steps</p> <ul style="list-style-type: none"> • Attend Planning Partnership Meeting • Determine Hazards of Concern to include in the HMP • Strengths, Weaknesses, Obstacles and Opportunities (SWOO) • Review Hazard Profiles • Review Risk Assessment Results • Identify Problems and Problem Areas • Develop Mitigation Strategy • Review Draft Plan • Submit Draft Plan for NYSDHSES/FEMA Review • Adopt FEMA-Approved Plan • Implement Projects and Maintain the Plan and Increase Resilience 	
7	<p>Conclusion - The meeting concluded at 3:05 pm.</p>	



Welcome!

- If you are attending the webinar on your computer, please add your name, title, and organization(s) to the chat box.
 - Bring your mouse to the lower part of the screen until a set of buttons appears. They may also be at the top of your screen.
 - Click “Show Conversation.”

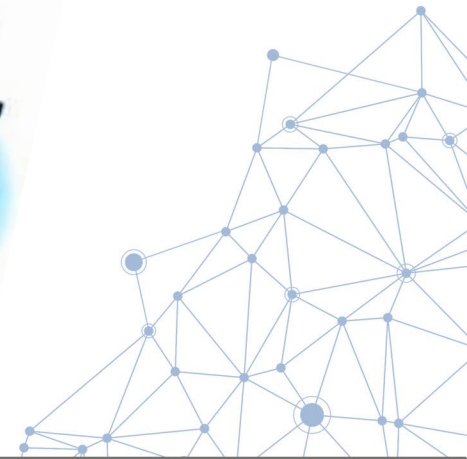


Herkimer County, New York Hazard Mitigation Plan – 2023 Update

Steering Committee Kick-Off Meeting | August 9, 2022

Agenda

- Welcome and Introductions
- In-Kind Services Tracking
- Benefits of Hazard Mitigation
- Hazard Mitigation Planning Overview
- Project Organization
- Steering Committee Responsibilities
- Public and Stakeholder Outreach
- Update Hazards of Concern and Risk Assessment
- Critical Facilities and Lifelines
- Goals and Objectives
- Schedule
- Questions/Next Steps/Wrap Up



Introductions

- Tell us...
 - What's your name?
 - Where you are from?
 - What is your mitigation experience?
 - What do you want to focus on during this process or what is your area of expertise?
 - What are your resilience concerns for Herkimer County?





Hazard Mitigation – What is it?

Mitigation is a sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event

-or-

Any action taken to reduce future disaster losses

“provides the blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and local ability...” (CFR).








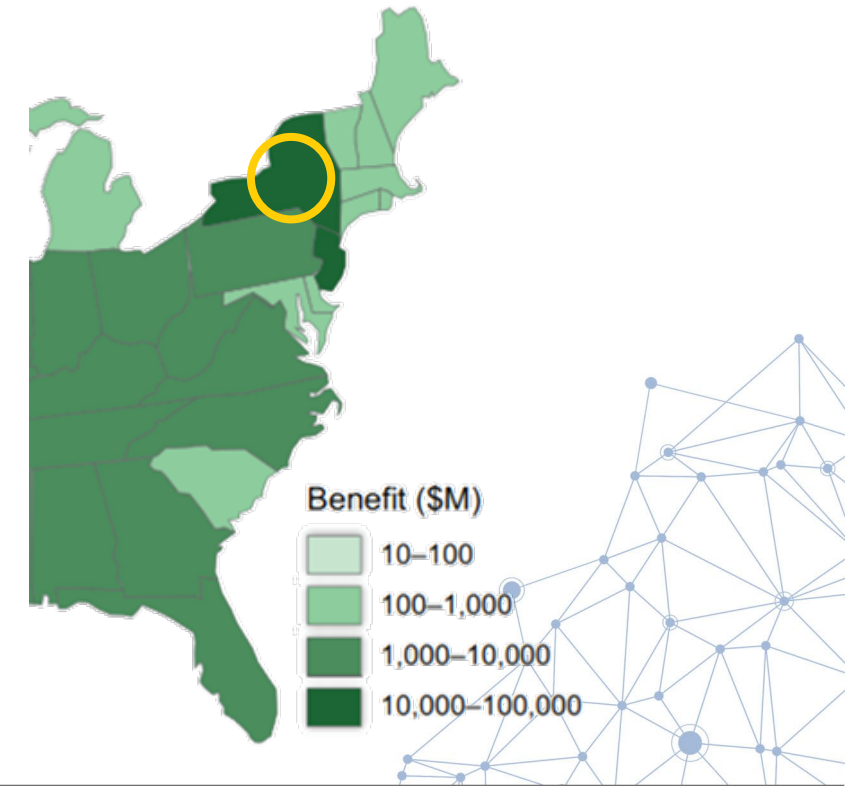


Hazard Mitigation Works!

- According to the January 2019 National Institute of Building Sciences Natural Hazard Mitigation Saves: 2018 Interim Report, federal mitigation grants save \$6 for every \$1 spent!

Mitigation saves in every in state! New York has saved up to \$100 million in benefits.

National Benefit-Cost Ratio Per Peril <small>*BCR numbers in this study have been rounded</small>		Federally Funded
Overall Hazard Benefit-Cost Ratio		6:1
 Riverine Flood		7:1
 Hurricane Surge		Too few grants
 Wind		5:1
 Earthquake		3:1
 Wildland-Urban Interface Fire		3:1





Why Update?

- The mitigation plan update will:
 - Help the County prepare for and mitigate the effects of disasters
 - Continue to allow the County and participating partners to be eligible for pre- and post-disaster mitigation funding
 - Support CRS participation/rating of municipalities

Hazard	Losses (\$) in Herkimer County
Blizzard	Losses not reported
Drought	Losses not reported
Excessive Temperature	Losses not reported
Flash Flood	\$3.62 million
Flood	\$6.06 million
Hail	Losses not reported
Heavy Rain	\$101,000
Heavy Snow	Losses not reported
High Wind	\$330,000
Hurricane/Tropical Storm	Losses not reported
Lightning	\$110,000
Thunderstorm	\$11.34 million
Tornado/Funnel Cloud	\$3.02 million
Wildfire	Losses not reported
Winter Storm	\$483,300
TOTAL	\$25.01 million

Source: NOAA-NCEI 2022



What's at Risk?

- FEMA Disaster Declarations

Year of Declaration Date	Declaration Title	Disaster Number
1974	SEVERE STORMS & FLOODING	447
1976	SEVERE STORMS & FLOODING	515
1993	SEVERE BLIZZARD	3107
1996	SEVERE STORMS AND FLOODING	1095
1998	NY - SEVERE WX, SEPT 7, 1998	1244
2000	SEVERE STORMS AND FLOODING	1335
	WEST NILE VIRUS	3155
2001	FIRES AND EXPLOSIONS	1391

Year of Declaration Date	Declaration Title	Disaster Number
2003	POWER OUTAGE	3186
	SNOWSTORMS	3173
2004	SEVERE STORMS AND FLOODING	1534
2005	HURRICANE KATRINA EVACUATION	3262
2006	SEVERE STORMS AND FLOODING	1650
		1670
2011	HURRICANE IRENE	4020
	REMNANTS OF TROPICAL STORM LEE	3341
		4031

Year of Declaration Date	Declaration Title	Disaster Number
		4031
	SEVERE STORMS, FLOODING, TORNADOES, AND STRAIGHT-..	1993
2012	HURRICANE SANDY	3351
2013	SEVERE STORMS AND FLOODING	4129
2014	SEVERE STORMS AND FLOODING	4180
2017	SEVERE WINTER STORM AND SNOWSTORM	4322
2019	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	4472
2020	COVID-19	3434
	COVID-19 PANDEMIC	4480



9 Severe Storm(s)



5 Flood



3 Hurricane



3 Snow



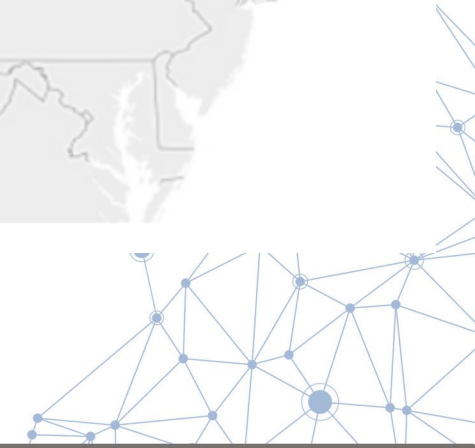
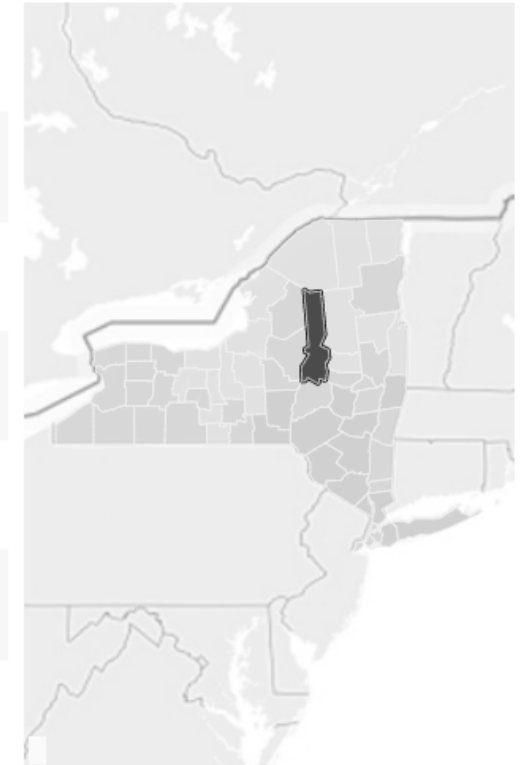
2 Biological



2 Other

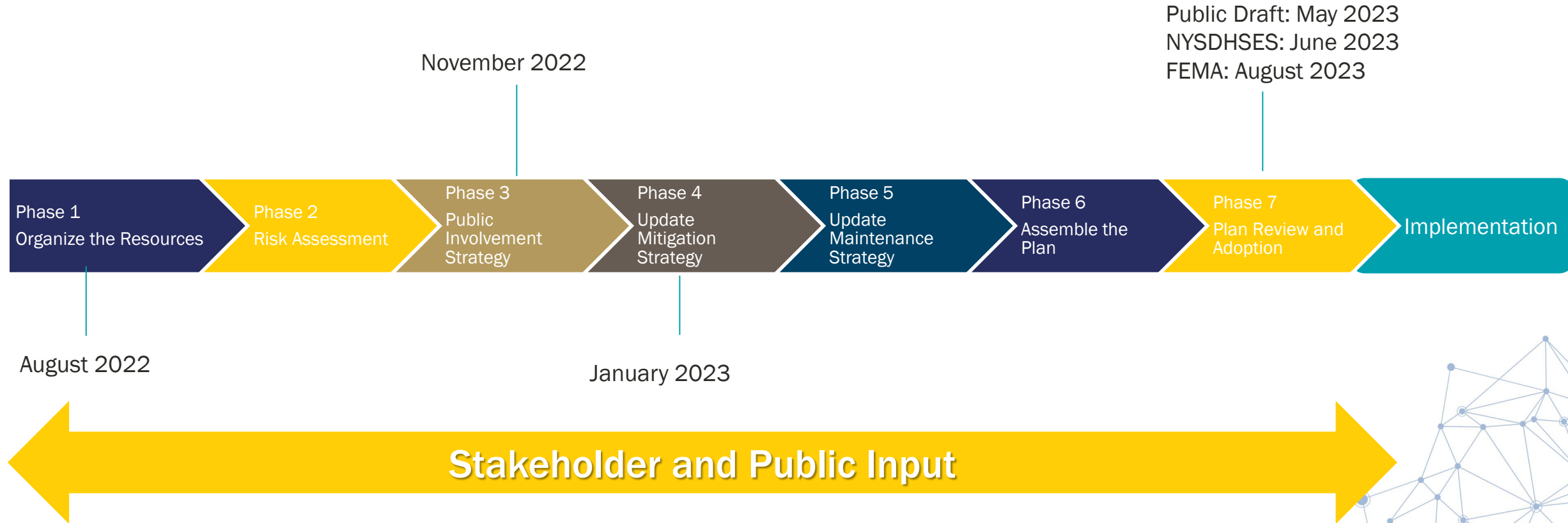


1 Fire





Planning Process Overview





Project Organization





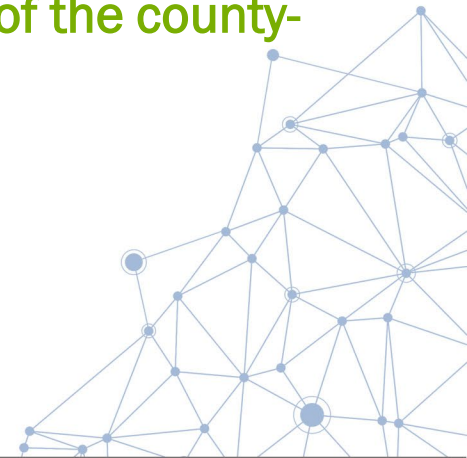
Hazard Mitigation Committee Composition

Steering Committee Members

Herkimer County Emergency Services	Herkimer ARC
Herkimer County Administrator	Herkimer-Fulton-Hamilton-Otsego BOCES
Herkimer County Highway Dept.	Herkimer County Soil & Water
Herkimer County Public Health	Herkimer County Legislature
Herkimer County Office of the Aging	Herkimer County Legislature
Herkimer Oneida Counties Comprehensive Planning Program	Herkimer County Sheriff Department
Herkimer County Industrial Development Agency	Village of Herkimer
Bassett Healthcare	Village & Town of Frankfort
Tractor Supply	Catholic Charities of Herkimer County
Newport Telephone	

Role

- ✓ Guide the Planning Partnership through the planning process
- ✓ Identify the natural hazards of concern
- ✓ Develop mitigation goals and objectives
- ✓ Develop public and stakeholder outreach strategy
- ✓ Support the development of the county-level mitigation strategy
- ✓ Review plan documents





Steering Committee Roles and Responsibilities



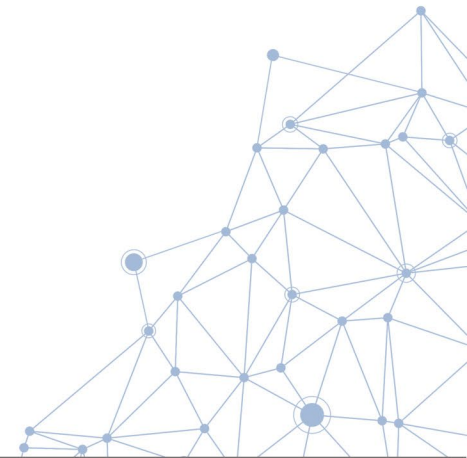
PROVIDE GUIDANCE AND LEADERSHIP THROUGHOUT THE PLANNING PROCESS



OVERSEE THE PLANNING PROCESS



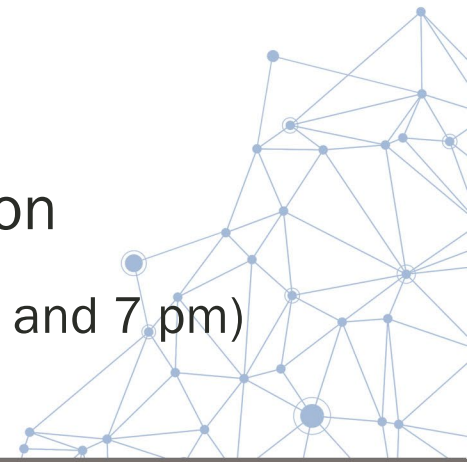
ACT AS THE POINT OF CONTACT FOR ALL PARTNERS AND STAKEHOLDERS





Early Progress

- Requested/Received NFIP Community Assistance Visit Data
- Requested NFIP Data
- GIS Data Collection
- Review of Hazards of Concern/Distributed Worksheet to Steering Committee
- Created HMP website
- Created HMP Fact Sheet, Citizen Survey, Agency Surveys
- County-Level/Regional Plan Collection
- Planning Partnership Outreach/Letter of Intent to Participate Distribution
- Planning Partnership Kick-Off Meeting Scheduled (September 26th at 1 pm and 7 pm)

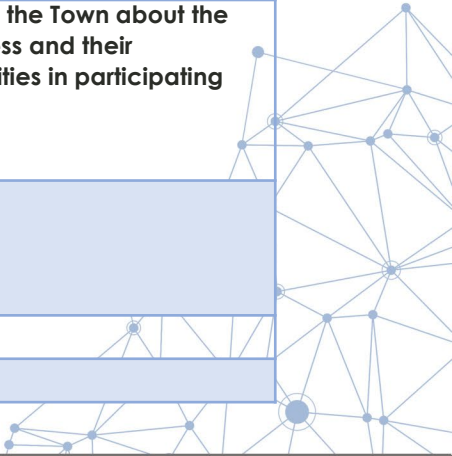




In-Kind Services

Name of Team Member: _____

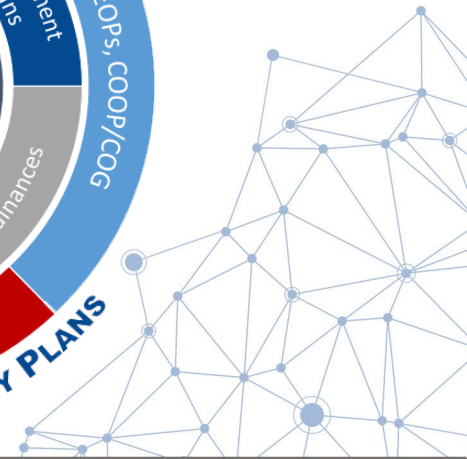
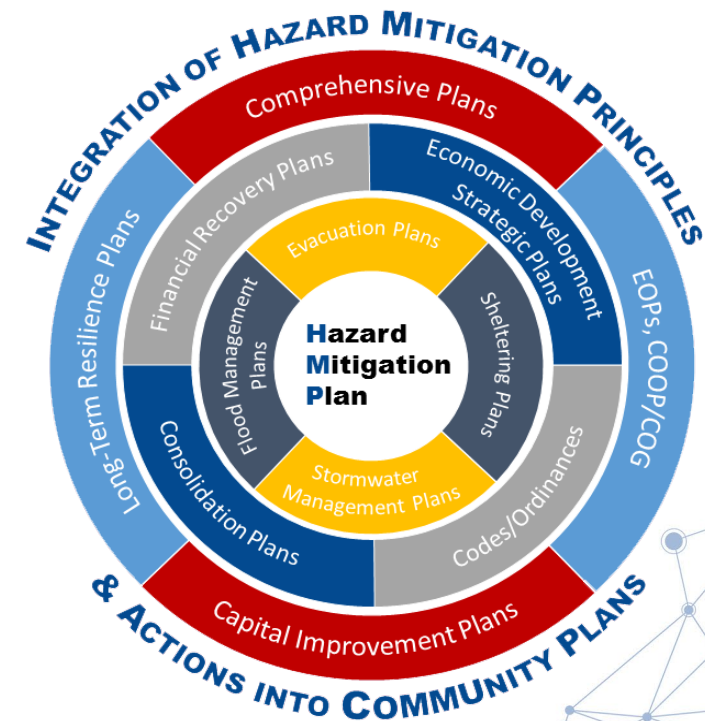
Correspondence Type	Meeting Name, Municipality	Date	Start Time	End Time	# of Hours	Agenda/Sign In?	Notes (include meeting topic, how HMP was discussed, etc.)
Meeting	Chiefs and Fire Advisory Board Meeting	2/26/2020				Yes – sign-in	Discussed the HMP update
Meeting	Town of ?? Board Meeting	3/9/2020	7:00 pm	9:00 pm	2		Discussed the HMP update
Phone Call	Town of ?? phone call	3/10/2020			1	No	Spoke with the Town about the HMP process and their responsibilities in participating
Meeting	Town of ?? Board Meeting	3/12/2020	6:30 pm			Yes - agenda	





Data Collection Status

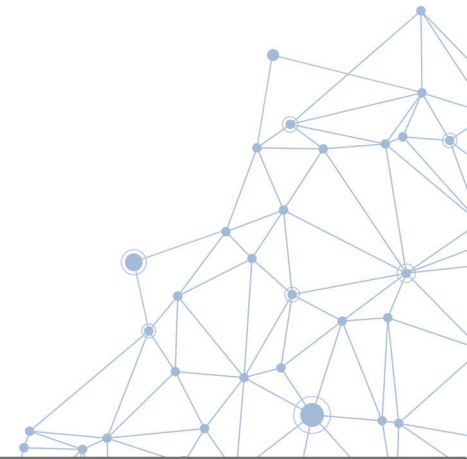
- Letters of Intent to Municipalities – Email and hard copy to municipal points of contacts - 8/8/22
- Critical Facility Inventory (County providing initial data)
- Reports and Plans – Initial collection of reports, plans, and codes available online
- Regulatory Flood Maps: FEMA 2013 DFIRMs
- Worksheets
 - Capability Assessments
 - Mitigation Strategy Updates





Letters of Intent to Participate (LOIP)

- Letters of Intent to Participate are required from each municipality
- The LOIP outlines expectations and responsibilities for participating jurisdictions and identifies points of contact
- County distributed the letter with LOIP template to municipal contacts





Public and Stakeholder Outreach

- Developed a website just for the HMP - <https://www.herkimercountynyhmp.com/>
- Social Media
- Stakeholder Survey –
- Public Survey –
- Neighboring County Outreach –
 - Notified of planning process
 - Survey



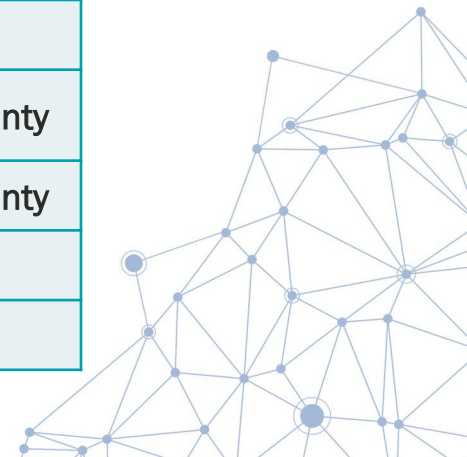


Relevant Plans and Studies

- To date, we have gathered the following documents for review:

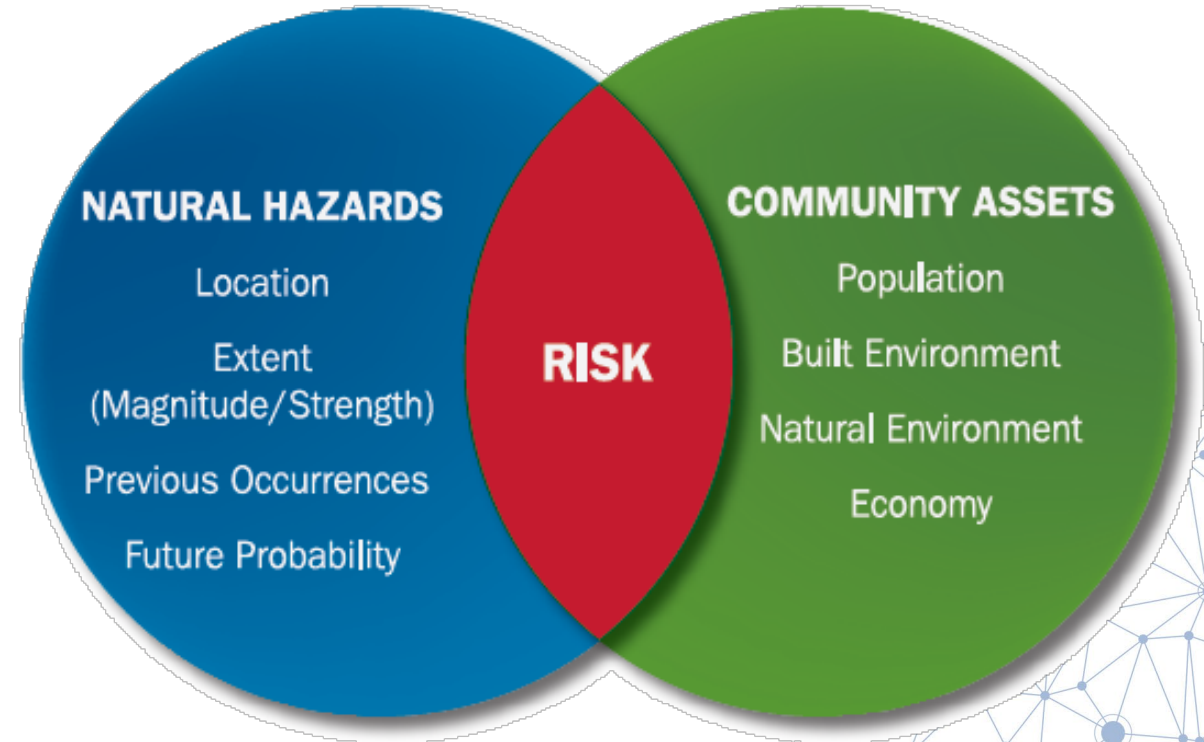
Name of Plan/Document	Date of Plan	Jurisdiction
Herkimer County Comprehensive Emergency Management Plan	April 2015	Countywide
Emergency Plan of Action for Highway Related Incidents	March 2008	Countywide
Herkimer County Community Development Strategic Plan	January,2022	Coutywide
Agricultural and Farmland Protection Plan	July 2020	Countywide
NY Rising Countywide Resiliency Plan	July 2014	Countywide
Long-Range Transportation Plan	-	Countywide
Herkimer-Oneida Counties Transportation Council Transportation Improvement Program	2023-2027	Herkimer/Oneida County
Unified Planning Work Program (UPWP)	April 2022	Herkimer/Oneida County
Flood Hazard Mitigation Plan/HMP	2004/2017	Countywide
Stormwater Management Plan	-	Countywide

- Others??



Update Risk Assessment

- Update assets
- Examine previous impacts
- Analyze risks
- Review with Steering Committee
- Risk assessment meeting





NYS DHSES Requirements

- Establish Jurisdictional Teams
- Assess Critical Facilities
- Plan for Displaced Residents
 - Intermediate (Temporary Housing) and Long-Term (Permanent Housing)
- Plan for Evacuation and Sheltering
- Document Past Mitigation Accomplishments
- Include Jurisdictional Annexes
- Develop Mitigation Actions (minimum of 2 projects)
- Plan for Climate Change





EXERCISE – Identifying Hazards of Concern

- The 2017 plan included:
 - Drought
 - Earthquake
 - Extreme Heat
 - Flood
 - Landslide
 - Severe Weather (Hail, Hurricane, Lightning, Snow, Tornado)
 - Wildfire

• In review...

- Have additional hazards impacted the County since 2017?
- Have hazard been mitigated and no longer cause damage?
- Should hazards be regrouped to align with the 2019 State HMP?
- Should additional hazards be included?



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Hazards of Concern Review Exercise



Hazards of Concern are defined as those hazards that are considered most likely to impact a community. These are identified using available data and local knowledge.

Jurisdiction: _____
 Name: _____
 Title: _____
 Email Address: _____
 Phone Number: _____

Thinking back over the last few years...

- Have additional hazards impacted Herkimer County since 2017?
- Have hazards been mitigated and no longer cause damage or put the County at risk?
- Should hazards be regrouped to align with the 2019 State HMP?

What are the natural hazards that present the most risk to your jurisdiction today?

	2017 Herkimer HMP	2021 CEPA Ranking**	Has the frequency, severity, or location of the hazard changed in your community? <small>(Please provide an explanation for any changes marked I or D in this column)</small>	2023 Herkimer HMP* <small>(Indicate 'keep', combine with other hazard, or provide comments for any changes)</small>
<input type="checkbox"/> Climate Change				
<input type="checkbox"/> Dam Failure				
<input type="checkbox"/> Drought				
<input type="checkbox"/> Earthquake				
<input type="checkbox"/> Extreme Temperature (heat and cold)				
<input type="checkbox"/> Flood (riverine, dam failure, beaver dam)				
<input type="checkbox"/> Geologic (landslide, subsidence/sinkhole)				

Why do these hazards present the most risk?

Severe Weather (high wind, tornado, thunderstorm, hail)
 Severe Winter Weather (heavy snow, blizzard, ice)
 Wildfire
 Hazardous Materials (fixed site, in-transit)
 Disease Outbreak
 Invasive Species
 Other: _____

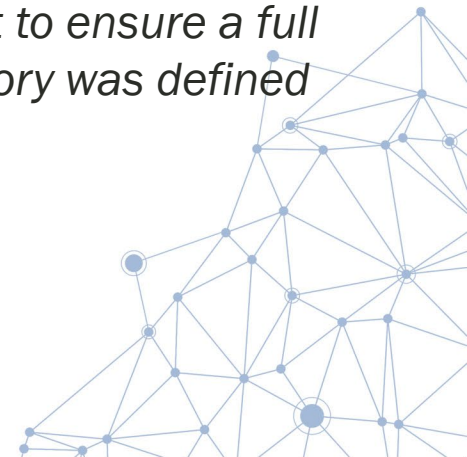
Community Lifelines

- Review 2017 critical facility inventory to ensure complete
- Crosswalk and identify lifelines

Lifelines provide indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security

Critical Facilities are those facilities considered critical to the health and welfare of the population and that are especially important following a hazard. As defined for this HMP, critical facilities include essential facilities, transportation systems, lifeline utility systems, high-potential loss facilities, and hazardous material facilities.

Essential facilities are a subset of critical facilities that include those facilities that are important to ensure a full recovery following the occurrence of a hazard event. For the County risk assessment, this category was defined to include police, fire, EMS, schools/colleges, shelters, senior facilities, and medical facilities.



Community Lifelines

- What additional facilities and lifelines should we add? Types to consider:
 - Utility locations – substations, pump stations, treatment plants
 - Critical food establishments – food pantries, grocery stores, senior nutrition
 - COVID-19 locations – testing and vaccination sites
 - Others?





Mitigation Strategy

- Goals
 - What outcomes do you want to achieve?
- Actions
 - What specific actions will be taken to reduce risk from hazards?
- Action Plan
 - How will the actions be prioritized and implemented?





Goals and Objectives Review and Update

Goal	Objective
Goal 1: Protect Life and Property (Category: Structure and Infrastructure Projects)	Objective 1.1: Implement mitigation activities that will assist in protecting lives and property by making homes, businesses, infrastructure, and critical facilities more resistant to hazards.
	Objective 1.2: Encourage homeowners and businesses to take preventative actions in areas that are especially vulnerable to hazards.
	Objective 1.3: Review existing local ordinances, building codes, safety inspection procedures, and applicable rules to help ensure that they employ the most recent and generally accepted standards for the protection of buildings.
	Objective 1.4: Ensure that public and private facilities and infrastructure meet established building codes and immediately enforce the codes to address any identified deficiencies
	Objective 1.5: Encourage homeowners, renters, and businesses to purchase insurance coverage for damages caused by hazards
	Objective 1.6: Encourage the establishment of policies at the local level to help ensure that prioritization and implementation of mitigation strategies and/or projects are designed to benefit essential facilities, services, and infrastructure.
Goal 2: Increase Public Awareness (Category: Education and Awareness Programs)	Objective 2.1: Develop and implement additional education and outreach programs to increase public awareness of the risks associated with hazards and to educate the public on specific, individual preparedness activities.
	Objective 2.2: Provide information on tools, partnership opportunities, funding, resources, and current government initiatives to assist in implementing mitigation activities.





Goals and Objectives Review and Update

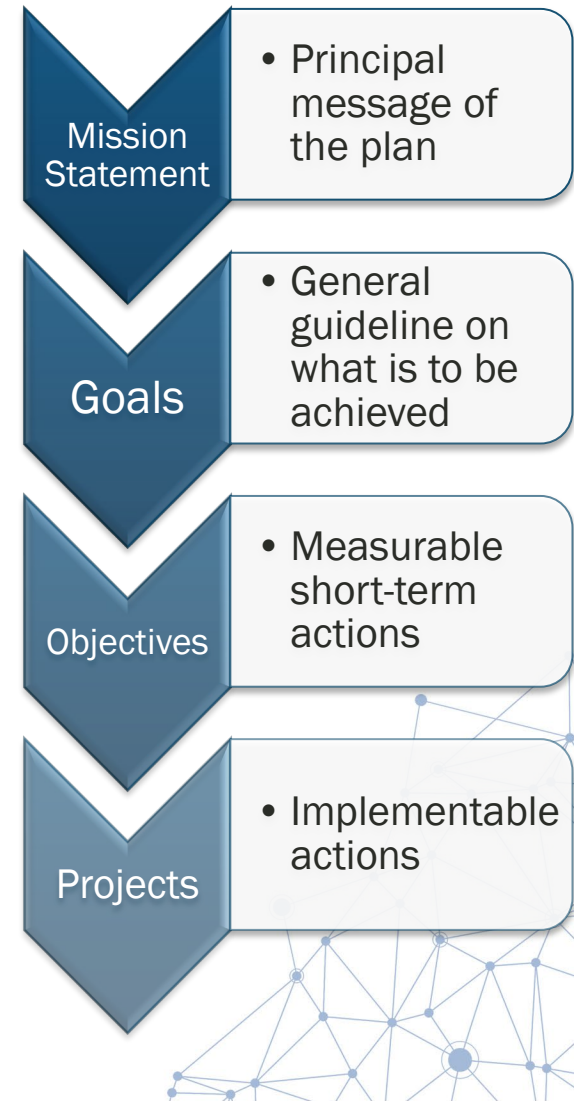
Goal	Objective
Goal 3: Encourage Partnerships (Category: Local Plans and Regulations)	Objective 3.1: Strengthen inter-jurisdiction and inter-agency communication, coordination, and partnerships to foster hazard mitigation strategies and/or projects designed to benefit multiple jurisdictions.
	Objective 3.2: Identify and implement ways to engage public agencies with individual citizens, non-profit organizations, business, and industry to implement mitigation activities more effectively.
	Objective 3.3: Integrate the recommendations of this plan into existing local and county programs.
Goal 4: Promote sustainable mitigation actions that preserve or restore the functions of natural systems (Category: Natural Systems Protection)	Objective 4.1: Incorporate hazard considerations into land-use planning and natural resource management.
	Objective 4.2: Implement mitigation activities that encourage environmental stewardship and protection of the environment.
	Objective 4.3: Build upon past efforts to characterize flood events by conducting additional flood studies and creating flood models.
Add Dam Goal or objectives?	



Create Mission or Vision Statement?

The 2017 Herkimer County Hazard Mitigation Plan did not include an overarching mission statement. For the 2023 update, the following is provided for consideration.

The mission of the Herkimer County Hazard Mitigation Plan is to protect and enhance the health, safety, property, and rich history of the communities within Herkimer County and to increase economic prosperity and resilience by partnering and planning to identify and reduce future vulnerability to natural and other emerging hazards in an efficient manner.





Schedule

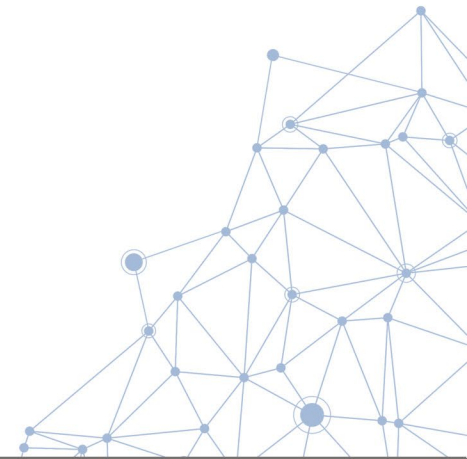
- Planning Process
 - Steering Committee Kick-Off – TODAY!
 - Planning Partnership Kick-Off – September 26th at 1 pm and 7 pm
- Update Risk Assessment
 - Data collection is underway; confirm local critical facilities inventory by 10/12/2022
 - Begin vulnerability assessment
 - Steering Committee Meeting: September 20, 2022, to identify hazards of concern for County and finalize goals
 - Risk Assessment Meetings: 11/15/2022 (Steering Committee); 11/28/22 (Planning Partnership)
- Public Involvement Strategy – ongoing throughout the planning process





Schedule

- Mitigation Strategy
 - Begin working with the municipalities in **October 2022**
 - Mitigation Strategy Workshop with FEMA and NYSDHSES – **January 26, 2023**
- Draft Plan to Steering Committee in **March-April 2023** (*as sections are ready*)
- Public Review Period (30 days) – **May 2023**
- Final draft plan to NYSDHSES by June 2023 and FEMA by **August 2023**

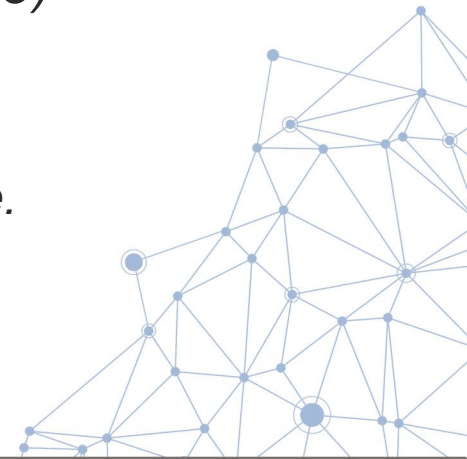




Next Steps – Key Dates


- Complete Hazards of Concern & Goals and Objectives worksheets and return by **8/16**
- Confirm access to OneDrive – *access to be provided in separate email*
- Planning Partnership Kick-Off* (Steering Committee and Municipalities) on **9/26/22**
- Steering Committee Meeting* – September 20th, 2022
- Steering Committee Risk Assessment Meeting – November 15th, 2022 (*tentative*)
- Planning Partnership Risk Assessment Meeting – November 28th (*tentative*)
- Mitigation Strategy Workshop – January 23rd, 2023 (*tentative*)

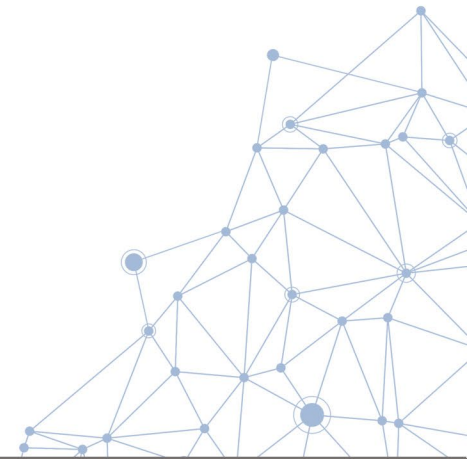
**Planning Partnership Meetings to be scheduled on the 4th Thursday of the month, if possible.
Steering Committee Meetings to be scheduled on Tuesdays at 2 pm, if possible.*





Next Steps

1. Attend Planning Partnership Meeting
2. Determine Hazards of Concern to include in the HMP
3. Strengths, Weaknesses, Obstacles and Opportunities (SWOO)
4. Review Hazard Profiles
5. Review Risk Assessment Results
6. Identify Problems and Problem Areas
7. Develop Mitigation Strategy
8. Review Draft Plan
9. Submit Draft Plan for NYSDHSES/FEMA Review
10. Adopt FEMA-Approved Plan
11. Implement Projects and Maintain the Plan  Increase Resilience!



Questions?



Herkimer County Emergency Services Project Contacts

John J. Raymond, Director
jraymond@herkimercounty.org

Robert Vandawalker, Emergency Management
Coordinator
rvandawalker@herkimercounty.org

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, Project Manager
(973) 630-8044 | cynthia.bianco@tetrattech.com

Heather Apgar, CFM, Lead Planner
(973) 630-8046 | heather.apgar@tetrattech.com



**Thank
You!**



Herkimer County 2023 Hazard Mitigation Plan Update

Planning Process Overview for Participating Communities

Hazard Mitigation – What and Why?

- Mitigation is a sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event
- Includes actions taken to reduce future disaster losses
- Provides a plan to increase community resilience
- Mitigation saves \$\$\$. New York State alone has saved up to \$10 billion in benefits according to NYSDHSES.
- An adopted Hazard Mitigation Plan provides eligibility for FEMA pre-disaster mitigation grants.
- In 2021, FEMA's Building Resilient Infrastructure and Communities (BRIC) program is providing up to **\$1 Billion** in mitigation grant funding



Hazard Mitigation – What’s at Risk?

FEMA Disaster Declaration history in Herkimer County

25 disasters since 1953

Year of Declaration Date	Declaration Title	Disaster Number
1974	SEVERE STORMS & FLOODING	447
1976	SEVERE STORMS & FLOODING	515
1993	SEVERE BLIZZARD	3107
1996	SEVERE STORMS AND FLOODING	1095
1998	NY - SEVERE WX, SEPT 7, 1998	1244
2000	SEVERE STORMS AND FLOODING	1335
	WEST NILE VIRUS	3155
2001	FIRES AND EXPLOSIONS	1391
2003	POWER OUTAGE	3186
	SNOWSTORMS	3173
2004	SEVERE STORMS AND FLOODING	1534
2005	HURRICANE KATRINA EVACUATION	3262
2006	SEVERE STORMS AND FLOODING	1650
		1670
2011	HURRICANE IRENE	4020
	REMNANTS OF TROPICAL STORM LEE	3341
		4031
2012	HURRICANE SANDY	3351
2013	SEVERE STORMS AND FLOODING	4129
2014	SEVERE STORMS AND FLOODING	4180
2017	SEVERE WINTER STORM AND SNOWSTORM	4322
2019	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	4472
2020	COVID-19	3434
	COVID-19 PANDEMIC	4480



9 Severe Storm(s)



5 Flood



3 Hurricane



3 Snow



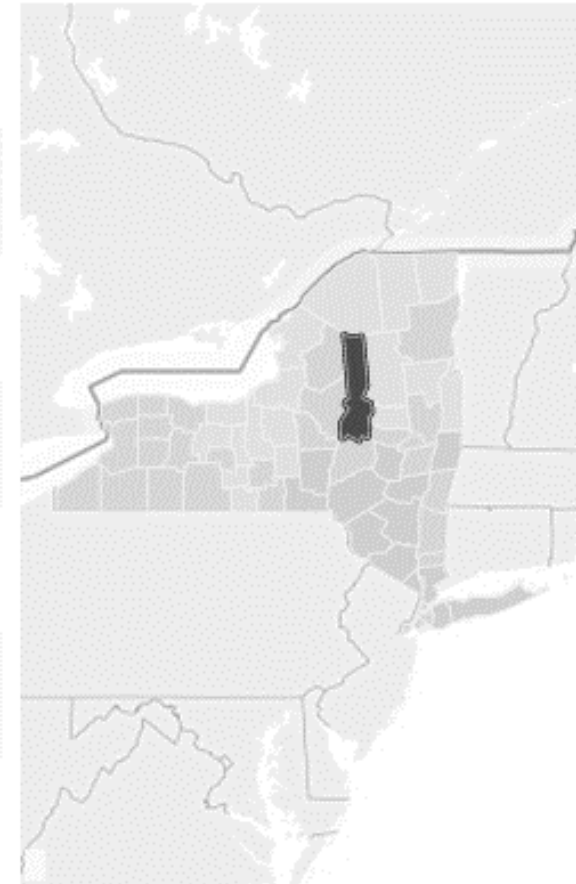
2 Biological



2 Other



1 Fire



Source: FEMA 2022

2022 Hazards of Concern Included in the Plan

- Avalanche
- Drought
- Earthquake
- Extreme Temperatures
- Flood (dam/levee, ice jam, debris flow, riverine, flash, urban/stormwater)
- Landslides
- Severe Storms (hail, wind, hurricane, lightning, thunderstorm, rain)
- Severe Winter Storms (snow, ice)
- Soil Hazards (erosion, expansive soils, subsidence)
- Wildfire
- Epidemic
- Transportation Accidents

- Lifeline facilities/critical facilities are reviewed to assess their vulnerability to hazards

(Lifelines provide indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security)



Planning Partner (Municipal) Responsibilities

- ✓ Identify two municipal representatives to participate throughout the process
- ✓ Attend three meetings over the next 8 months
- ✓ Provide data and information about your municipality as requested
- ✓ Complete data collection forms/surveys
- ✓ Support public outreach efforts by posting about the HMP on the municipal website, social media, etc.
- ✓ Identify mitigation projects you want to see get done in your community
- ✓ Adopt the HMP by resolution after FEMA approves the plan

Hazard Mitigation Planning Overview

- Authorized by the Disaster Mitigation Act of 2000
- Provides an overview of the impacts of natural hazards on communities
- Provides a roadmap to reducing the impact of these hazards
- Requires a FEMA-approved natural hazard mitigation plan to be eligible for Pre-Disaster Mitigation Funding
- 5-year update required to maintain eligibility



Plan Adoption and Timeline

- Information on the planning process is available here: <https://www.herkimercountynyhmp.com/>
- Draft plan sections will be posted for public review and comment Spring 2023
- The plan will be submitted for review and approval by NYSDHSES and FEMA by June, 2023
- **Adoption of the plan by the community is required to be deemed APPROVED by FEMA.**



The screenshot shows the top portion of the website. It features the Herkimer County logo on the left and the title "Herkimer County Hazard Mitigation Plan 2023 Update" on the right. Below the title is a navigation menu with links for Home, About, What is Mitigation, Meetings, Calendar, Explore the Plan, and Additional Information. The main content area is titled "Herkimer County Hazard Mitigation Plan Update" and contains introductory text about the project's goal to save lives and property by reducing hazard vulnerability. It also includes a call to action for a public survey, accompanied by a graphic that says "HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE WE NEED YOUR HELP!" and "CLICK HERE TO TAKE THE PUBLIC SURVEY AND HELP US UPDATE THE HERKIMER COUNTY HMP".



The screenshot shows a page titled "What is Hazard Mitigation?". It features the Herkimer County logo and the same navigation menu as the previous screenshot. The main content area explains that hazard mitigation is an action to help reduce long-term risks from hazards or disasters, such as flooding, earthquakes, or wildfires. It also discusses proactive mitigation and provides a definition of a Hazard Mitigation Plan (HMP) as a commitment to reduce risks from natural hazards. The page concludes by stating that hazard mitigation planning can significantly reduce losses caused by disasters and is supported by federal legislation like the Disaster Mitigation Act of 2000.

Herkimer County Office of Emergency Services

John Raymond, Director

jraymond@herkimercounty.org

Bob Vandawalker, EMC

rvandawalker@herkimercounty.org

Tetra Tech

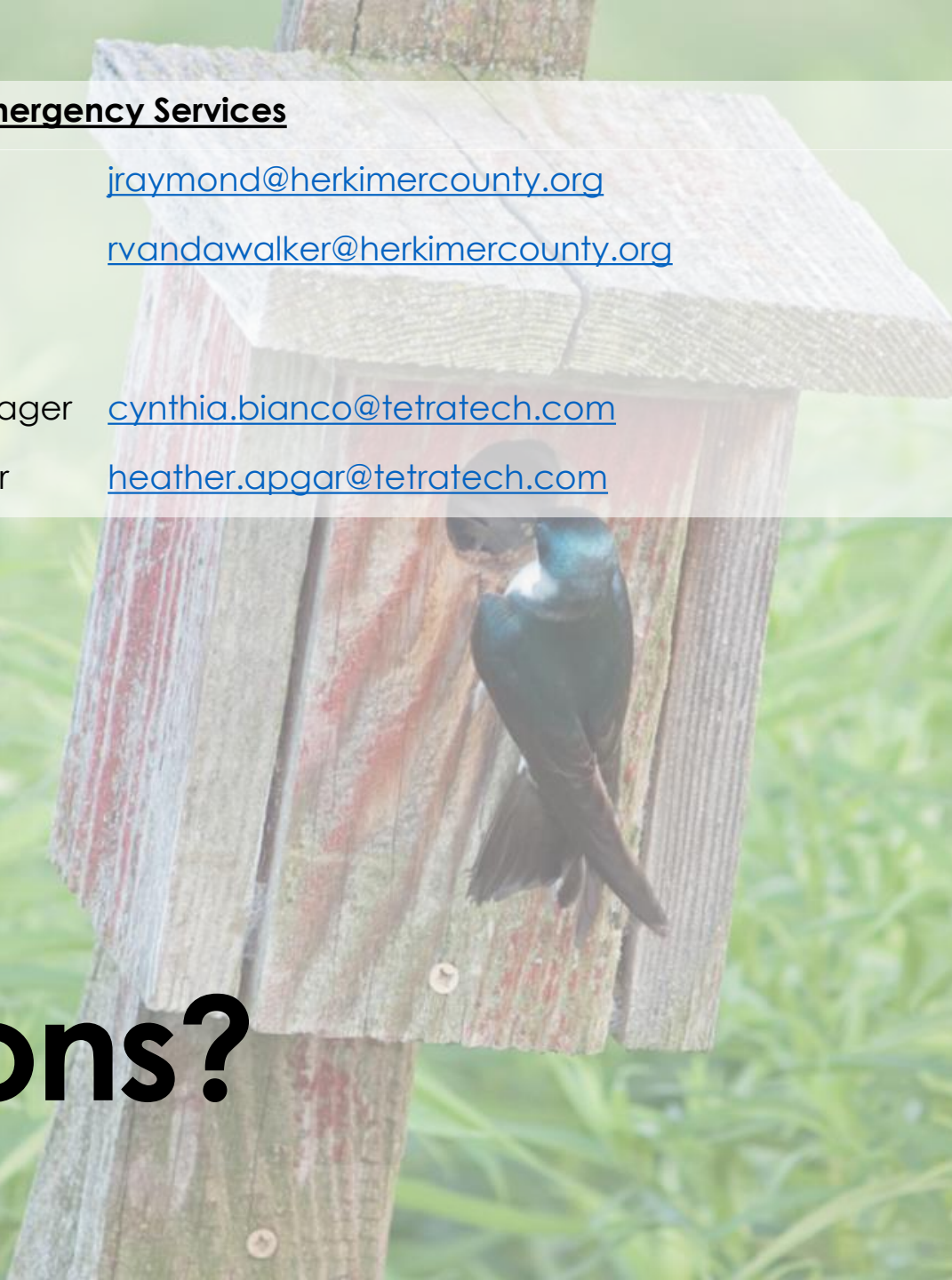
Cynthia Bianco, Project Manager

cynthia.bianco@tetrattech.com

Heather Apgar, Lead Planner

heather.apgar@tetrattech.com

Questions?





HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Planning Partnership Kick-Off Meeting– AGENDA
MEETING DATE/TIME: September 26, 2022 – 1:00 pm or 7:00 pm



In-Person/Hybrid Meeting: Herkimer College, Lou Ambers Drive, Herkimer NY, Campus Center (Main Building), Room 288-289 – Amphitheater

Remote – 1:00 pm MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – 1:00 pm Dial-in by phone (audio only) - [+1 518-300-1367,,,684947581#](tel:+15183001367684947581) United States, Albany; Phone Conference ID: 684 947 581#

Remote – 7:00 pm MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – 7:00 pm Dial-in by phone (audio only) - [+1 518-300-1367,,,435986679#](tel:+15183001367435986679) United States, Albany; Phone Conference ID: 435 986 679#

1. Welcome and Introductions
2. Benefits of Hazard Mitigation
3. Hazard Mitigation Planning Overview
4. Project Organization
5. Public and Stakeholder Outreach
6. In-Kind Services Tracking
7. Planning Partnership Responsibilities
8. Community Lifelines/Critical Facilities
9. Update Hazards of Concern and Risk Assessment
10. Goals and Objectives
11. Schedule
12. Questions/Next Steps/Wrap Up



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Purpose of Meeting:	Planning Partnership Kick-Off Meeting
Location of Meeting:	Hybrid In-person and Teleconference Teams Meeting
Date of Meeting:	September 26, 2022, 1:00 pm – 2:05 pm; 7:00 pm – 8:00 pm

1 Pm Meeting Attendees:

John J. Raymond	Director	Herkimer County Emergency Services
Robert (Bob) Vandawalker	Emergency Management Coordinator	Herkimer County Emergency Services
Diane Ward	Director of Health Services	Herkimer County Public Health
Sarah Thomas		Herkimer County Public Health
Shannon Clarke*	Planner	NYS DHSES
Shelby Meyers*	Planning Director	NYS DHSES
Mark Buddle	Highway Superintendent	Town of Columbia
H. Spaman	Codes Enforcement	Town of Frankfort
L. Peter Rovazzi	Town Supervisor	Town of German Flatts
Mark C. O’Sullivan	Town Council	Town of Litchfield
John Mower	Town Supervisor	Town of Salisbury
Richard Bronner	Town Supervisor	Town of Stark
Marvin Jones	Trustee	Village of Cold Brook
Mary Puznowski	Mayor	Village of Dolgeville
David Jaquay	Superintendent Chief	Village of Dolgeville
Mike Moody	Chief Herkimer Fire	Village of Herkimer
Marc Butler*	Mayor	Village of Newport
Brian Dutcher*	Mayor	Village of Poland
Mike Jory*		
Chester Szymanski*	Engineer	Little Falls/Dolgeville
s.b.*		
Cynthia Addonizio-Bianco*	Project Manager	Tetra Tech, Inc. (Tt)

7pm Meeting Attendees

John J. Raymond	Director	Herkimer County Emergency Services
L. Peter Rovazzi*	Town Supervisor	Town of German Flatts
Richard Sweeney*	Codes	Town of German Flatts
Mark C. O’Sullivan	Town Council	Town of Litchfield
Daniel Casler	Town Supervisor	Town of Little Falls
“Chet” Chester P. Szymanski II	Engineer	Little Falls/Dolgeville
Gary Snyder	Councilman	Town of Norway
Ronald Beach	Deputy Supervisor	Town of Schuyler
Cynthia Addonizio-Bianco*	Project Manager	Tetra Tech, Inc. (Tt)



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Agenda Summary: Two similar meetings to provide an overview of the hazard mitigation planning process and participant responsibilities.

Item No.	Description	Action item(s):
1	<p>Welcome and Opening Remarks</p> <ul style="list-style-type: none"> • Cynthia Addonizio-Bianco, project manager from Tetra Tech (Tt), facilitated introductions, gave opening remarks providing an overview of the importance of this planning process and thanked participants for supporting the hazard mitigation update. John Raymond, Director of Herkimer County Emergency Services the County team. <p>Shannon Clarke of NYSDHSES introduced the NYSDHSES and indicated that they will provide support as needed throughout the mitigation planning process.</p>	N/A
2	<p>Project Overview</p> <ul style="list-style-type: none"> • Ms. Addonizio-Bianco provided the following information: <ul style="list-style-type: none"> ○ An overview of hazard mitigation, what it is and how it can provide increase resilience through the development of a FEMA-approved Hazard Mitigation Plan. She also noted the need to track time spent working on the plan outside of meetings through in-kind tracking to provide match for federal funding support for the planning effort. An online tracker will be sent out to all plan participants. ○ An overview of the phases of the hazard mitigation planning process including description of the project organization: <ul style="list-style-type: none"> ▪ Core Planning Team (CPT) ▪ Herkimer County Emergency Services ▪ Tetra Tech ○ Steering Committee (SC) <ul style="list-style-type: none"> ▪ Numerous County Departments, Major Businesses, Outside Agencies, municipal representatives ○ Planning Partnership (PP) <ul style="list-style-type: none"> ▪ All participating municipalities and Steering Committee members. ○ FEMA/NYSDHSES ○ Stakeholders • Planning Partnership roles and responsibilities: <ul style="list-style-type: none"> ○ Provide guidance and leadership ○ Identify hazards of concern ○ Develop mitigation goals and objectives • Develop public and stakeholder outreach • Assist with the development of their jurisdictional annex. Each municipality will be provided a version of their jurisdictional annex. The municipal mitigation team will edit and make changes to the annex as needed and return to Tt. 	<p>Critical facility inventory survey to be distributed by Tt to the County and municipal representatives.</p>



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



3	<p>Risk Assessment and Hazards of Concern</p> <ul style="list-style-type: none"> Ms. Addonizio-Bianco discussed the process of the risk assessment and reviewed the hazards of concern identified in the last HMP. These hazards of concern will need to be reviewed and updated as necessary. <p>One action is needed for every hazard of concern that impacts a municipality.</p>	<ul style="list-style-type: none"> Planning Partnership to provide input to update Hazards of Concerns in associated worksheets.
4	<p>Goals and Objectives</p> <ul style="list-style-type: none"> Ms. Addonizio-Bianco introduced the goals and objectives from the last HMP. Community lifelines and critical facilities were introduced from the previous HMP. <p>The jurisdictional representative should review the goals and objectives and the community lifelines to identify changes in their communities.</p>	<ul style="list-style-type: none"> Planning Partnership to provide critical facilities inventory by October 14th using the survey to be sent via email Tt to send critical facilities inventory survey Tt to send out annex worksheets.
5	<p>Upcoming Meetings</p> <ul style="list-style-type: none"> Ms. Addonizio-Bianco reviewed upcoming meetings: <ul style="list-style-type: none"> Annex Worksheet workshop – October 12th, 2022, at 1pm and 7pm All Annex worksheets due October 28th, 2022 <p>Risk assessment meeting – January 2023</p>	
6	<p>Next Steps</p> <ul style="list-style-type: none"> Determine Hazards of Concern to include in the HMP Review Hazard Profiles Review Risk Assessment Results Identify Problems and Problem Areas Develop Mitigation Strategy Review Draft Plan Submit Draft Plan for NYSDHSES/FEMA Review Adopt FEMA-Approved Plan Implement Projects and Maintain the Plan and Increase Resilience 	
7	<p>Conclusion - The meetings concluded at 2:05 pm and 8 pm.</p>	

Herkimer County, New York Hazard Mitigation Plan – 2023 Update

Planning Partnership Kick-Off Meeting | September 26, 2022

Agenda

- Welcome and Introductions
- Benefits of Hazard Mitigation
- Hazard Mitigation Planning Overview
- Project Organization
- Public and Stakeholder Outreach
- In-Kind Services Tracking
- Planning Partnership Responsibilities
- Community Lifelines/Critical Facilities
- Update Hazards of Concern and Risk Assessment
- Goals and Objectives
- Schedule
- Questions/Next Steps/Wrap Up





Hazard Mitigation – What is it?

Mitigation is a sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event

-or-

Any action taken to reduce future disaster losses

“provides the blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and local ability...” (CFR).





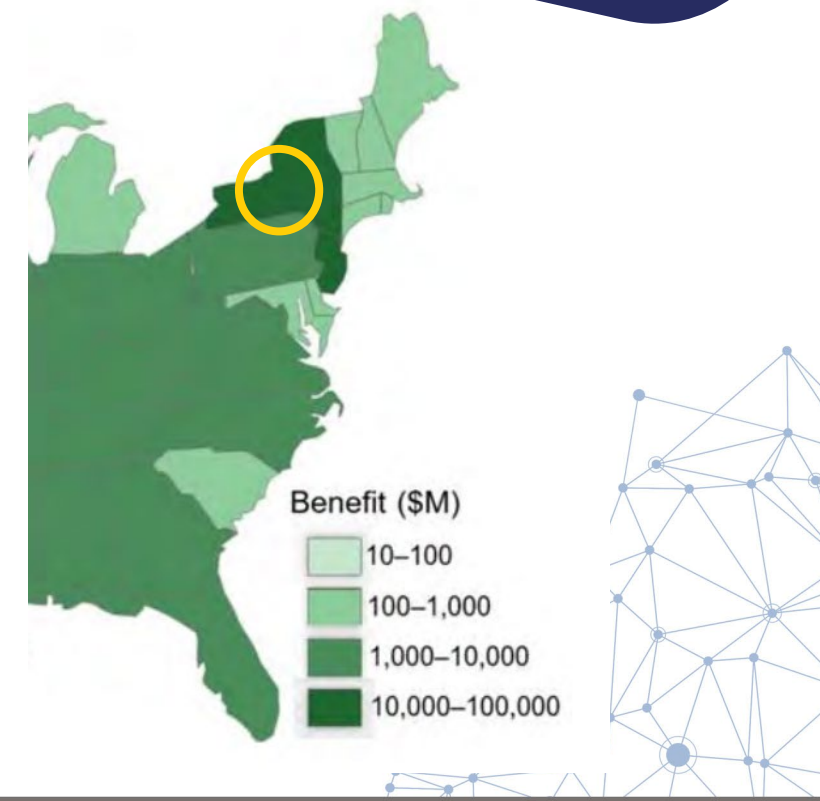
Hazard Mitigation Works!

- According to the January 2019 National Institute of Building Sciences Natural Hazard Mitigation Saves: 2019 Report, federal mitigation grants save \$6 for every \$1 spent!

Mitigation saves in every in state! New York State has benefited in over \$100 million from federal grants for flood, wind, earthquake, and fire mitigation.

	ADOPT CODE	ABOVE CODE	BUILDING RETROFIT	LIFELINE RETROFIT	FEDERAL GRANTS
Overall Benefit-Cost Ratio	11:1	4:1	4:1	4:1	6:1
Cost (\$ billion)	\$1/year	\$4/year	\$520	\$0.6	\$27
Benefit (\$ billion)	\$13/year	\$16/year	\$2200	\$2.5	\$160
Riverine Flood	6:1	5:1	6:1	8:1	7:1
Hurricane Surge	not applicable	7:1	not applicable	not applicable	not applicable
Wind	10:1	5:1	6:1	7:1	5:1
Earthquake	12:1	4:1	13:1	3:1	3:1
Wildland-Urban Interface Fire	not applicable	4:1	2:1	not applicable	3:1

Copyright © 2019 The National Institute of Building Sciences



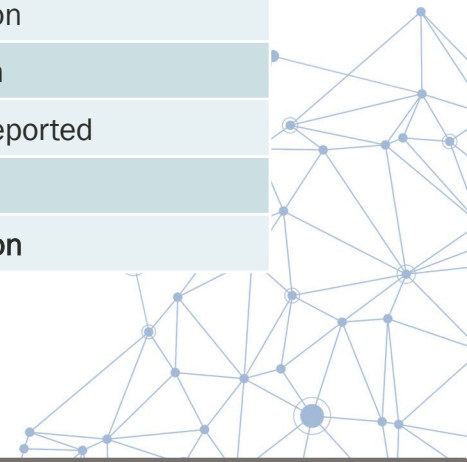


Why Update?

- The mitigation plan update will:
 - Help the County prepare for and mitigate the effects of disasters
 - Continue to allow the County and participating partners to be eligible for pre- and post-disaster mitigation funding
 - Support CRS participation/rating of municipalities

Hazard	Losses (\$)
Blizzard	Losses not reported
Drought	Losses not reported
Excessive Temperature	Losses not reported
Flash Flood	\$3.62 million
Flood	\$6.06 million
Hail	Losses not reported
Heavy Rain	\$101,000
Heavy Snow	Losses not reported
High Wind	\$330,000
Hurricane/Tropical Storm	Losses not reported
Lightning	\$110,000
Thunderstorm	\$11.34 million
Tornado/Funnel Cloud	\$3.02 million
Wildfire	Losses not reported
Winter Storm	\$483,300
TOTAL	\$25.01 million

Source: NOAA-NCEI 2022



What's at Risk?

- FEMA Disaster Declarations

Year of Declaration Date	Declaration Title	Disaster Number
1974	SEVERE STORMS & FLOODING	447
1976	SEVERE STORMS & FLOODING	515
1993	SEVERE BLIZZARD	3107
1996	SEVERE STORMS AND FLOODING	1095
1998	NY - SEVERE WX, SEPT 7, 1998	1244
2000	SEVERE STORMS AND FLOODING	1335
	WEST NILE VIRUS	3155
2001	FIRES AND EXPLOSIONS	1391

Year of Declaration Date	Declaration Title	Disaster Number
2003	POWER OUTAGE	3186
	SNOWSTORMS	3173
2004	SEVERE STORMS AND FLOODING	1534
2005	HURRICANE KATRINA EVACUATION	3262
2006	SEVERE STORMS AND FLOODING	1650
		1670
2011	HURRICANE IRENE	4020
	REMNANTS OF TROPICAL STORM LEE	3341
		4031

Year of Declaration Date	Declaration Title	Disaster Number
		4031
	SEVERE STORMS, FLOODING, TORNADOES, AND STRAIGHT-LINE WINDS	1993
2012	HURRICANE SANDY	3351
2013	SEVERE STORMS AND FLOODING	4129
2014	SEVERE STORMS AND FLOODING	4180
2017	SEVERE WINTER STORM AND SNOWSTORM	4322
2019	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	4472
2020	COVID-19	3434
	COVID-19 PANDEMIC	4480



9 Severe Storm(s)



5 Flood



3 Hurricane



3 Snow



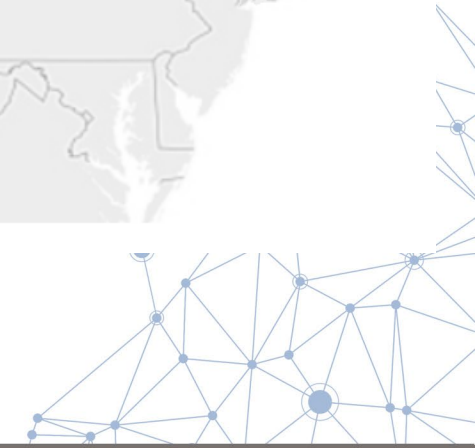
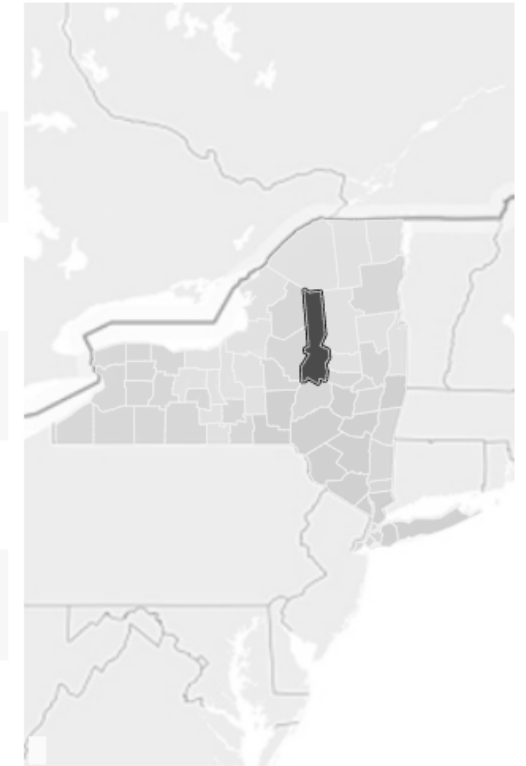
2 Biological



2 Other



1 Fire





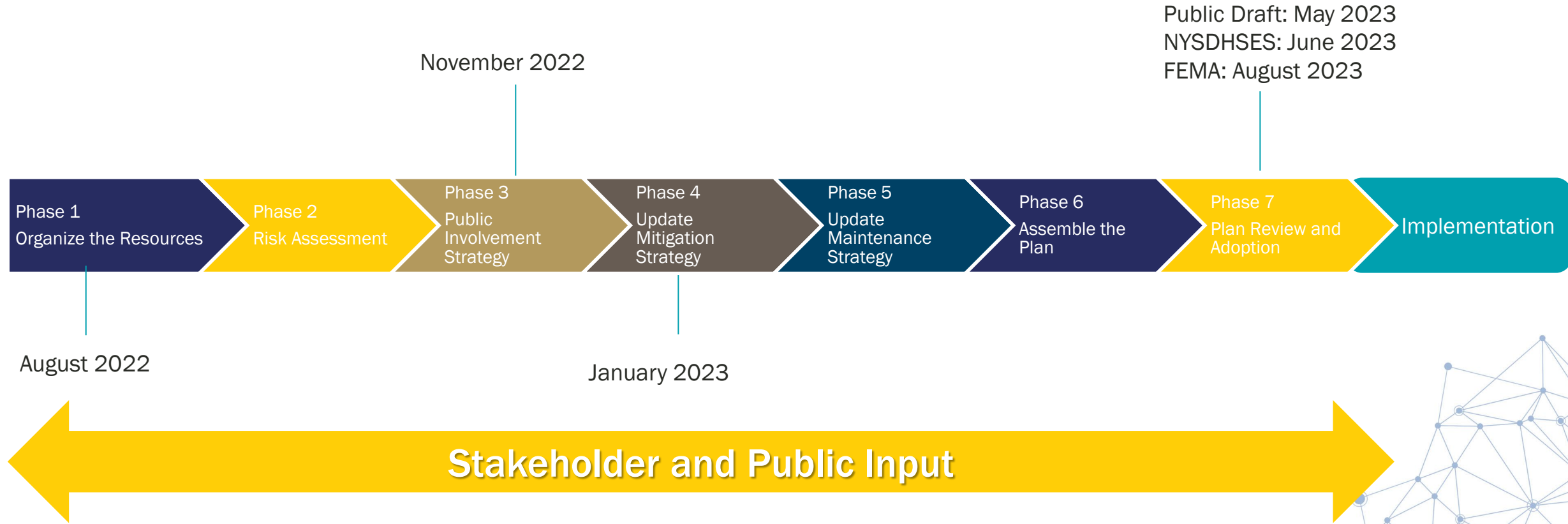
What is our Vision?

The *mission* of the Herkimer County Hazard Mitigation Plan is to **protect and enhance** the **health, safety, property**, and rich history of the communities within Herkimer County and to **increase** economic prosperity and **resilience** by partnering and planning to **identify and reduce future vulnerability** to natural and other emerging hazards in an efficient manner.





Planning Process Overview





Project Organization





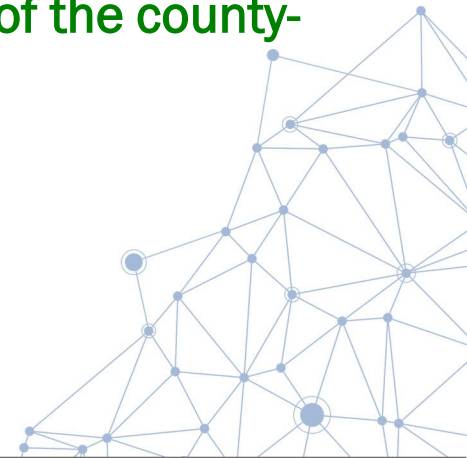
Who is Leading the Planning Process?

Steering Committee Members

Herkimer County Emergency Services	Herkimer ARC
Herkimer County Administrator	Herkimer-Fulton-Hamilton-Otsego BOCES
Herkimer County Highway Dept.	Herkimer County Soil & Water
Herkimer County Public Health	Herkimer County Legislature
Herkimer County Office of the Aging	Herkimer County Sheriff Department
Herkimer Oneida Counties Comprehensive Planning Program	Village of Herkimer
Herkimer County Industrial Development Agency	Village & Town of Frankfort
Bassett Healthcare	Catholic Charities of Herkimer County
Tractor Supply	
Newport Telephone	

Role

- ✓ Guide the Planning Partnership through the planning process
- ✓ Identify the natural hazards of concern
- ✓ Develop mitigation goals and objectives
- ✓ Develop public and stakeholder outreach strategy
- ✓ Support the development of the county-level mitigation strategy
- ✓ Review plan documents





How are we Engaging the Public?

- Developed a website just for the HMP – <https://www.herkimercountynyhmp.com/>
- Social Media Blasts – content and graphics will be sent out
- Surveys – public, stakeholder, and neighbors
- Local announcements of HMP update – local papers, municipal newsletters, etc.
- Local public meetings
- Draft plan review
- Document each and every time this is done!



Why conduct outreach?

- ✓ Informs and educates about hazards and risks
- ✓ Invites interested parties to contribute their views and ideas for mitigation
- ✓ Identifies conflicts and incorporates different perspectives and priorities early in the process
- ✓ Provides data and information that improves overall quality and accuracy of the plan
- ✓ Ensures transparency and builds trust
- ✓ Maximizes opportunities for implementation through greater consensus and acceptance



How to Document your Public and Stakeholder Outreach and In-Kind Hours?

- Track hours spent working on the HMP (outside of meetings with Tetra Tech)
- Track type of outreach you provide to inform residents and stakeholders about the Hazard Mitigation Plan.
- A survey will be emailed to you your input.

Correspondence Type	Meeting Name, Municipality	Date	Start Time	End Time	# of Hours	Agenda/Sign In?	Notes (include meeting topic, how HMP was discussed, etc.)
Press Release	Countywide						Press release issued to several local newspapers

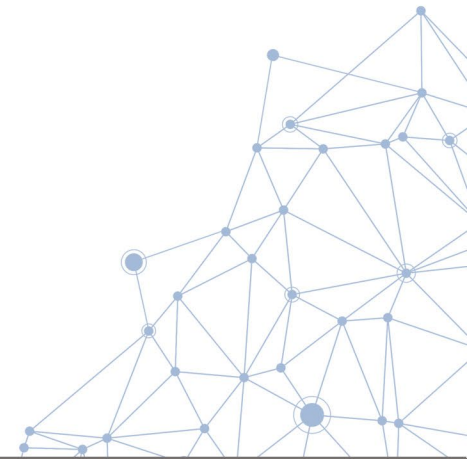


What are the Benefits for Municipal Participation?

- All municipalities are encouraged to actively participate (and continue to be covered by the countywide HMP).

Participating = you remain eligible for pre- and post-disaster mitigation funding!

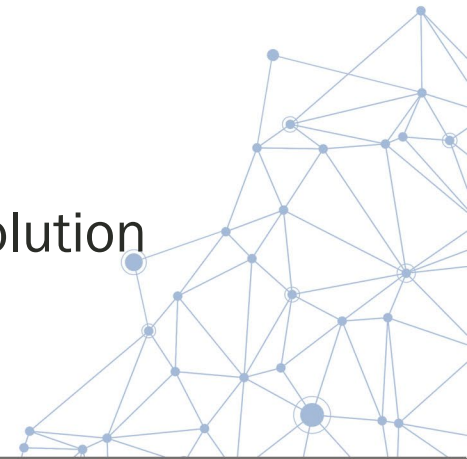
- FEMA has greatly expanded their scrutiny of ‘participation’ since your last plan update...





How Do You Participate?

- Submit Letter of Intent to Participate (LOIP)
 - LOIPs are required from each municipality
 - It outlines expectations and responsibilities for participating jurisdictions and identifies points of contact
 - If you haven't returned it yet, please do so ASAP!
- Assist with the development of your jurisdictional annex
- Attend planning partnership meetings/workshops – like this one!
- Provide data and information in a timely manner
- Support public and stakeholder outreach in your jurisdiction
- Review and provide feedback on Draft and Final Plan documents
- Facilitate the adoption process – governing body must pass an Adoption Resolution
- Implement and Maintain the Plan



Who Should be on Your Team?

If you not fully decided who should be on your municipal mitigation team, the following could provide you a better idea on who to invite:

- NFIP Floodplain Administrator
- Building Code Official
- Engineer
- Land Use Planner
- Clerk
- Mayor/Administrator/Supervisor
- Municipal CFO/Fiscal Representative
- Public Works Superintendent/Director
- Police/Fire Official





Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by **October 14th**.
Email: Cynthia.bianco@tetratech.com

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Herkimer County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (January 2017). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Please update the table to provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
EXAMPLE: May 13-22, 2014	Severe Storms and Flooding (DR-4180)	Yes	On May 16, heavy rainfall resulted in flash flooding and <u>washed out</u> roads.	Although the County was impacted, MUNICIPALITY did not report any damages.

Please identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
EXAMPLE: May 13-22, 2014	Severe Storms and Flooding (DR-4180)	Yes	On May 16, heavy rainfall resulted in flash flooding and <u>washed out</u> roads.	Although the County was impacted, MUNICIPALITY did not report any damages.

List of Worksheets

- Worksheet A - Hazard Event History
- Worksheet B – Capability Assessment
- Worksheet C – National Flood Insurance Program (NFIP) Questionnaire
- Worksheet D – 2017 Mitigation Project Status (Action Plan) Review
- Worksheet E – Development, Building Permits (last 5 years)



Update Annexes with Your Mitigation Team

- Attend the Annex Development Workshop to review each worksheet:
 - October 12th at 1 pm and 7 pm
- Complete worksheets
 - Each worksheet has a suggested department lead
 - Critical asset review due October 14th
 - All worksheets due October 28th





Who Should Conduct Your Capability Assessment?

- Planning and Regulatory Capability
- Building Code
- Administrative and Technical Capability
- Fiscal Capability
- Education and Outreach
- Community Classifications
- Adaptive Capacity

This will be reflected in your municipal annex



Hazard Mitigation Plan 2023 Update
HERKIMER COUNTY, NY
Worksheet B – Capability Assessment

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by October 14th.
Email: Cynthia.bianco@tetratech.com

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Who should assist with completing these tables: Municipal Planner, Clerk, Code Official, Planning Director, Chief Fiscal Officer.

Legal, and Regulatory Capability and Integration

Complete the following table to summarize the planning, legal, and regulatory tools that are available to your community, noting the code citation and date. Use the comment column to provide information on how the item integrates hazard mitigation and risk reduction. For existing items, note how they reduce risk to hazards, or how they might be updated to better include hazard mitigation concepts to reduce risk.

Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
--	---------------------------------	--	---	--

Codes, Ordinances, & Regulations

Building Code

How has or will this be integrated with the HMP and how does this reduce risk?

Zoning/Land Use Code

How has or will this be integrated with the HMP and how does this reduce risk?

Consider the following:

- Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?
- Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?
- Does it contain natural overlay zones that set conditions?
- Does the ordinance require developers to take additional actions to mitigate natural hazard risk?





How to Update Municipal Community Lifelines?

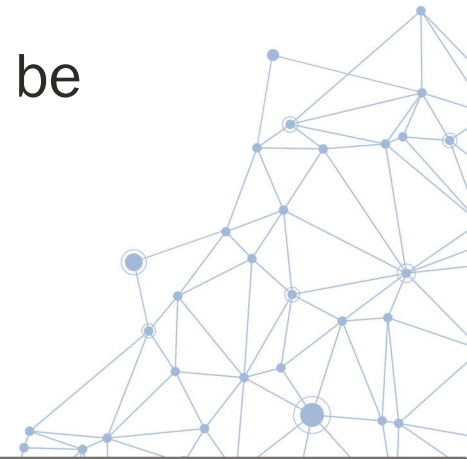
- Review 2017 critical facility inventory to ensure complete using the Survey provided by email.
- Identify your lifelines

Lifelines provide indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security



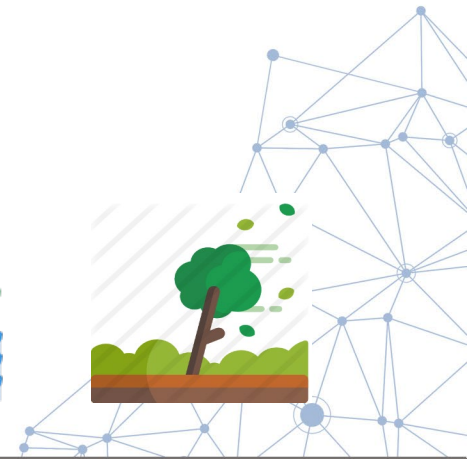
2017 Hazards of Concern

- Drought
 - Earthquake
 - Extreme Heat
 - Flood
 - Landslide
 - Severe Weather (Hail, Hurricane, Lightening, Snow, Tornado)
 - Wildfire
- In review...
 - Have additional hazards impacted the County since 2017?
 - Have hazard been mitigated and no longer cause damage?
 - Should hazards be regrouped to align with the 2019 State HMP?
 - Should additional hazards be included?



Potential 2023 Hazards of Concern

- Dam Failure/Levee Failure
- Disease Outbreak/Pandemic
- Drought
- Extreme Temperature (heat/cold)
- Flood (riverine, stormwater/urban, saturated ground failure)
- Invasive and Nuisance Species (zebra mussels, harmful algal bloom)
- Severe Storm (hail, lightning, straight-line wind, thunderstorms, hurricanes, tornadoes)
- Severe Winter Weather (ice, snowstorms, blizzards)
- Wildfire



Update Risk Assessment

- Update Assets
- Examine Previous Impacts
- Analyze Risks
- Review with Steering Committee
- Risk Assessment Meeting - open to the public





Review Your Previous Mitigation Strategy

- Determine status of 2017 Mitigation Actions
- The updated mitigation strategy will build on this as well as additional identified issues
- What progress has been made on the 2017 HMP actions?
 - Completed?
 - If yes, describe funding source, funding amount, and details on the project and how it was completed.
 - No progress?
 - Describe why.
 - Is this project still a priority? If yes, we will include in the 2023 Update.
 - If no, we will remove.

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Who should provide you information about past mitigation actions: The engineer and DPW should review and update other officials (e.g., Code Official, Planner, OEM Coordinator) to determine the status of each action (a FEMA requirement) Party' column, as appropriate.

Use the table on the following page to indicate progress and next steps on your community's mitigation strategy identified detailed as possible.

Provide status updates for each action listed in your last annex:

- IN PROGRESS: Started but not complete
- ONGOING CAPABILITY: An action you complete regularly (maintenance, annual outreach, etc.)
- NO PROGRESS: Not started
- COMPLETE: Finished!

Actions that are COMPLETE or ONGOING will not be carried forward. Let us know if NO PROGRESS or IN PROGRESS!

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	1. Project to be Discontinue 2. If including action be more specific 3. If discontinue, ex
						Cost Level of Protection	

This will be included in your municipal annex

New Mitigation Actions for the 2023 Update


- Opportunity to add new mitigation actions
- This includes all in-progress grant applications (HMGP generators, CDBG acquisitions, etc.)
- Tips for the 2023 update:
 - Quality NOT quantity
 - Specific not general
 - What can realistically be accomplished in 5 years?
 - Action for every hazard of concern




Plans and regulations include government authorities, policies, or codes that encourage risk reduction, such as building codes and state planning regulations. This may also include planning studies.



Structure and infrastructure projects involve modifying existing structures and infrastructure or constructing new structures to reduce the impact of hazards.



Natural systems protection projects minimize losses while also preserving or restoring the function of natural systems.



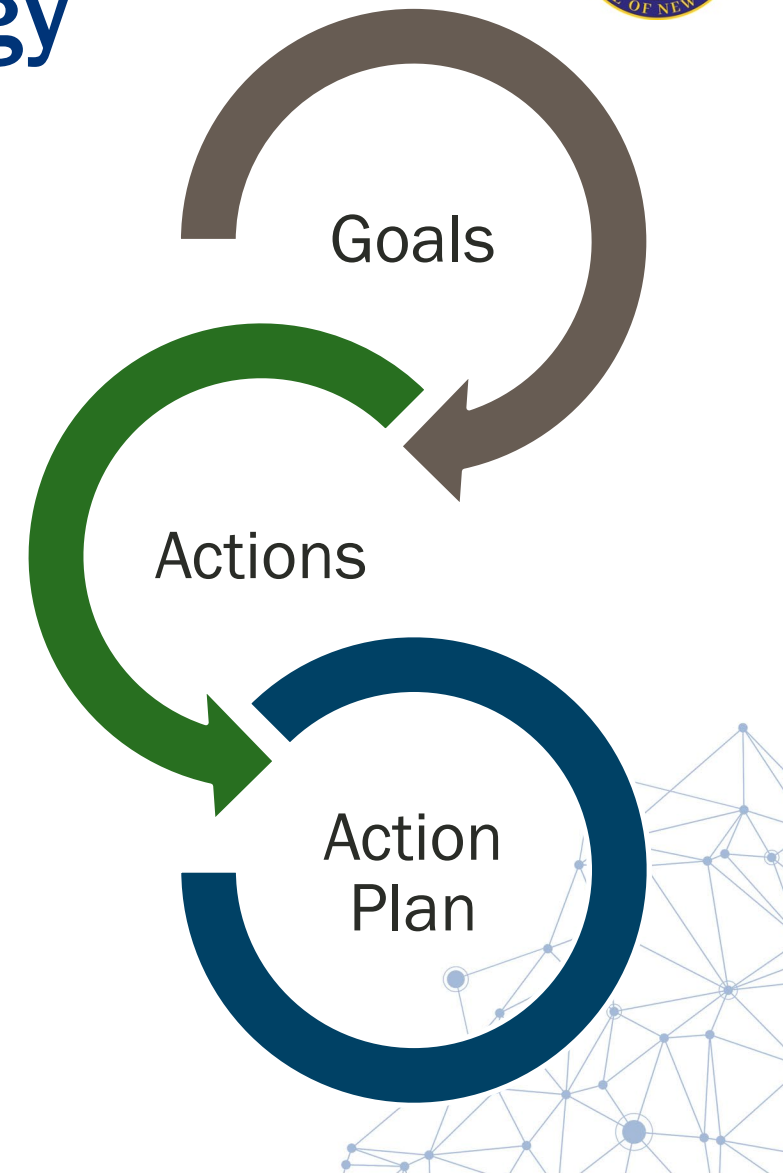
Education and awareness programs include long-term, sustained programs to inform and educate citizens and stakeholders about hazards and mitigation options. This category also include tr



“At the first sign of a flood, you just push this little button.”

Connection to the Mitigation Strategy

- Need a clear connection between vulnerability and proposed mitigation actions.
- Use the capability assessment to provide insight into challenges/opportunities for the mitigation strategy as well.
- Provide a factual basis for activities proposed in the mitigation strategy.





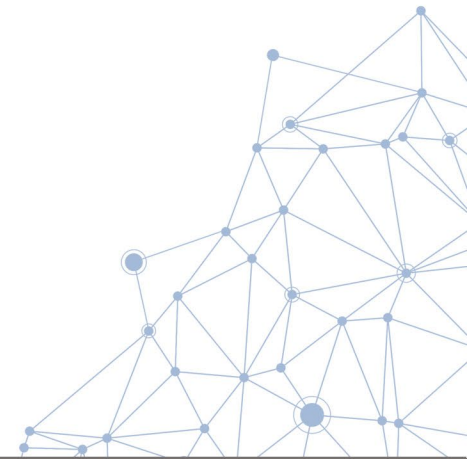
What We Need From You

- Attend ONE of the upcoming annex trainings
- Review and submit your critical facilities
- Complete and return your worksheets
- Start thinking about what new mitigation actions you would like to add to your mitigation strategy.

Annex Training #1 – October 12th @ 1:00 pm

OR

Annex Training #2 – October 12th @ 7:00 pm



Schedule

- Planning Process
 - Planning Partnership Kick-Off – TODAY!
 - Annex Trainings (only attend one) –
 - Annex Training #1 – October 12th @ 1:00 pm
 - Annex Training #2 – October 12th @ 7:00 pm
 - Confirm critical facility/lifeline inventory by October 14th
 - Worksheets due October 28th
 - Update Risk Assessment
 - Begin vulnerability assessment
 - Risk Assessment Meeting – January 2023
- Public Involvement Strategy – ongoing throughout the planning process

Savage Chickens


by Doug Savage



© 2013 BY Doug Savage
www.savagechickens.com



Next Steps

- Determine Hazards of Concern to include in the HMP
- Review Hazard Profiles
- Review Risk Assessment Results
- Identify Problems and Problem Areas
- Develop Mitigation Strategy
- Review Draft Plan
- Submit Draft Plan for DHSES/FEMA Review
- Adopt FEMA-Approved Plan
- Implement Projects and Maintain the Plan  Increase Resilience!



Questions?



Herkimer County Emergency Services Project Contacts

John J. Raymond, Director
jraymond@herkimercounty.org

Robert Vandawalker, Emergency Management
Coordinator
rvandawalker@herkimercounty.org

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, Project Manager
(973) 630-8044 | cynthia.bianco@tetratech.com

Heather Apgar, CFM, Lead Planner
(973) 630-8046 | heather.apgar@tetratech.com



**Thank
You!**



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee #2 – AGENDA
MEETING DATE/TIME: September 27, 2022 – 2:00 pm



In-Person/Hybrid Meeting: Herkimer County Emergency Services, 911 Center, 71 Reservoir Road, Herkimer, NY 13350

Remote – MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – Dial-in by phone (audio only) - [+1 518-300-1367..66778781#](#) United States, Albany; Phone Conference ID: 667 787 81#

- 1. Welcome and Introductions**
- 2. Progress Report**
- 3. Hazards of Concern**
- 4. Mission Statement, Goals, and Objectives**
- 5. Upcoming Meetings**
- 6. Steering Committee Actions**
- 7. Conclusion**



Herkimer County
 Hazard Mitigation Plan Update
 Meeting Notes



Purpose of Meeting:	Steering Committee Meeting
Location of Meeting:	Hybrid In-person and Teleconference Teams Meeting
Date of Meeting:	September 27, 2022, 2:00 pm – 2:56 pm

Attendees:

John J. Raymond*	Herkimer County Emergency Services
John Stephens*	Herkimer County Legislature
Michael Moody*	Village of Herkimer
Jim Wallace	Herkimer County Administrator
Rodney Denslow	Tractor Supply
Rick Reichert	Herkimer Oneida Planning Agency
Kelly Wares*	Herkimer County OES
Elizabeth O'Reilly	NYS DHSES
Maureen Petrie	Catholic Charities of Herkimer County
Gerald Pedersen	NYS DHSES O.E.M
Sheriff Scott Scherer*	Herkimer County Sheriff Department
Joseph Tomanio	Newport Telephone
Stephanie Tyoe	Herkimer County Highway Dept.
Diane Ward*	Herkimer County Public Health
Paul Hoole	FEMA
Cynthia Addonizio-Bianco	Tetra Tech

*In-person

Agenda Summary: To review and identify initial hazards of concern of the county, to review the HMP mission statement, goals, and objectives to form a basis for the planning process, to provide a progress report on completed and scheduled activities.

Item No.	Description	Action item(s):
1	<p>Welcome and Opening Remarks</p> <ul style="list-style-type: none"> Meeting started at 2:00 pm Meeting today to review and identify initial hazards of concern of the county, to review the HMP mission statement, goals, and objectives to form a basis for the planning process, to provide a progress report on completed and scheduled activities.. 	
2	<p>Progress Report</p> <ul style="list-style-type: none"> Ms. Addonizio-Bianco provided the following information: Letters of Intent to Participate. 75% or 21 of 29 municipalities have agreed to participate. Letters are pending from Towns of Danube, Fairfield, Little Falls, Norway, Ohio, Stark, and Webb. File sharing. A link will be sent via email to each Steering Committee member to provide access to the related documents which will be uploaded to Microsoft Teams Project site. 	<p><i>Post meeting note: the Towns of Danube, Webb, Newport, and Fairfield have elected not to participate in the plan.</i></p>



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<ul style="list-style-type: none"> • Data collection and Critical Facility Inventory. • Draft Public Survey. In process, to be shared with the committee prior to the Planning Partnership meeting. • Informational brochure. 	
3	<p>Hazards of Concern</p> <ul style="list-style-type: none"> • Input received from Public Health, Tractor Supply, Newport Telephone, and BOCES as well as the Core Planning Team. The combined input is provided in the attached HOC worksheet and indicates inclusion of the following hazards of concern: <ul style="list-style-type: none"> ○ Flood (including ground failure due to saturated soil) ○ Severe storm (including hurricane, tornado, hail, lightening, nor'easters) ○ Severe winter storm (including ice storm) ○ Dam failure ○ Extreme temperatures ○ Wildfire ○ Disease outbreak/pandemic and invasive species to be considered • Additional hazards to be considered based on committee input include Drought and Invasive Species. 	
4	<p>Mission Statement, Goals, and Objectives</p> <ul style="list-style-type: none"> • Input received from Tractor Supply, Newport Telephone, and BOCES as well as the Core Planning Team. The combined input is provided in the attached Mission Statement, Goals, and Objectives worksheet and indicates updated language based on committee feedback as well as comments that will inform the consideration of actions in the mitigation strategy. There was no input regarding the wording of the Mission Statement. 	
5	<p>Upcoming Meetings</p> <ul style="list-style-type: none"> • Ms. Addonizio-Bianco reviewed upcoming meetings: <ul style="list-style-type: none"> ○ Steering Committee Meeting – 1/17/22 ○ Steering Committee Risk Assessment Meeting – 2/21/23 ○ Planning Partnership – September 26th, 2022 ○ <i>Planning Partnership Risk Assessment Meeting – 2/27/23</i> ○ Mitigation Strategy Workshop – 3/27/23 	
6	<p>Steering Committee Actions</p> <ul style="list-style-type: none"> • Provide concurrence with the proposed mission statement, goals, and objectives and the proposed hazards of concern or provide any additional input or feedback for consideration by the Steering Committee. • Review the public survey and provide feedback via email. 	<p><i>Provide concurrence with the proposed mission statement, goals, and objectives and the proposed hazards of concern or provide any additional input or feedback for consideration by the Steering Committee.</i></p> <p>Review the public survey and provide feedback via email.</p>
7	<p>Conclusion - The meeting concluded at 2:56 pm.</p>	

Herkimer County, New York Hazard Mitigation Plan – 2023 Update

Planning Partnership Kick-Off Meeting | September 26, 2022

Agenda

- Welcome and Introductions
- Benefits of Hazard Mitigation
- Hazard Mitigation Planning Overview
- Project Organization
- Public and Stakeholder Outreach
- In-Kind Services Tracking
- Planning Partnership Responsibilities
- Community Lifelines/Critical Facilities
- Update Hazards of Concern and Risk Assessment
- Goals and Objectives
- Schedule
- Questions/Next Steps/Wrap Up





Hazard Mitigation – What is it?

Mitigation is a sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event

-or-

Any action taken to reduce future disaster losses

“provides the blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and local ability...” (CFR).





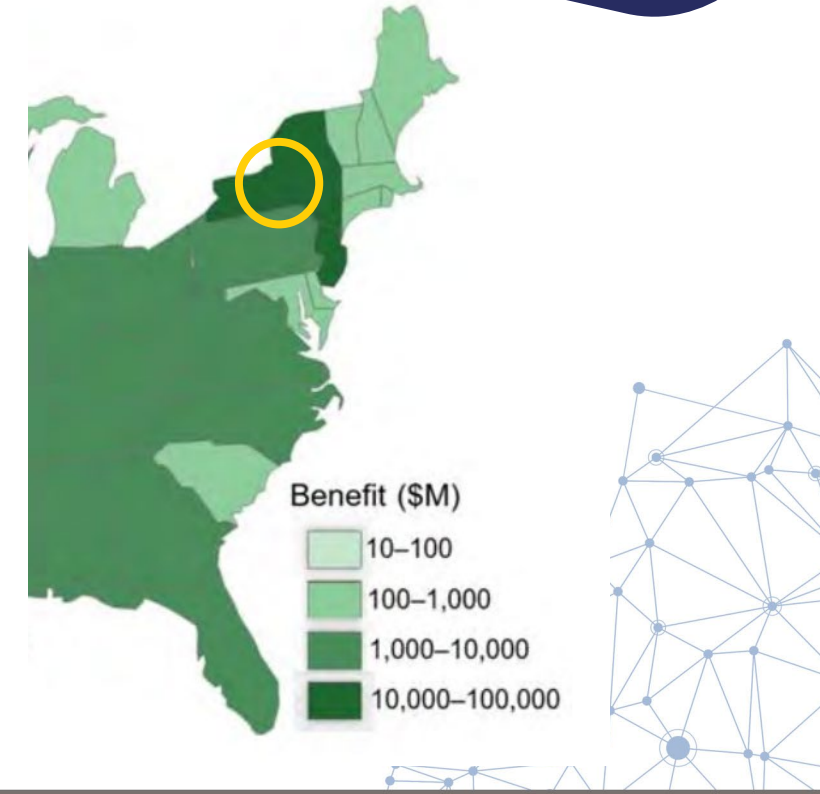
Hazard Mitigation Works!

- According to the January 2019 National Institute of Building Sciences Natural Hazard Mitigation Saves: 2019 Report, federal mitigation grants save \$6 for every \$1 spent!

Mitigation saves in every in state! New York State has benefited in over \$100 million from federal grants for flood, wind, earthquake, and fire mitigation.

	ADOPT CODE	ABOVE CODE	BUILDING RETROFIT	LIFELINE RETROFIT	FEDERAL GRANTS
Overall Benefit-Cost Ratio	11:1	4:1	4:1	4:1	6:1
Cost (\$ billion)	\$1/year	\$4/year	\$520	\$0.6	\$27
Benefit (\$ billion)	\$13/year	\$16/year	\$2200	\$2.5	\$160
Riverine Flood	6:1	5:1	6:1	8:1	7:1
Hurricane Surge	not applicable	7:1	not applicable	not applicable	not applicable
Wind	10:1	5:1	6:1	7:1	5:1
Earthquake	12:1	4:1	13:1	3:1	3:1
Wildland-Urban Interface Fire	not applicable	4:1	2:1	not applicable	3:1

Copyright © 2019 The National Institute of Building Sciences



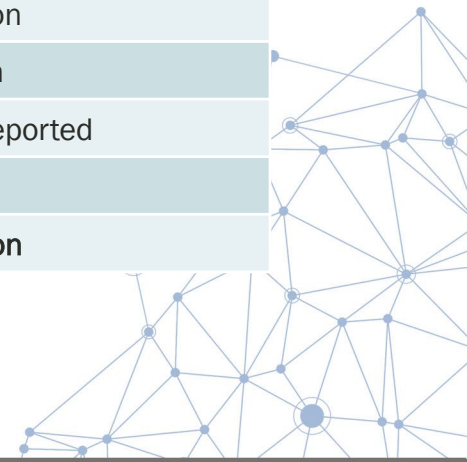


Why Update?

- The mitigation plan update will:
 - Help the County prepare for and mitigate the effects of disasters
 - Continue to allow the County and participating partners to be eligible for pre- and post-disaster mitigation funding
 - Support CRS participation/rating of municipalities

Hazard	Losses (\$)
Blizzard	Losses not reported
Drought	Losses not reported
Excessive Temperature	Losses not reported
Flash Flood	\$3.62 million
Flood	\$6.06 million
Hail	Losses not reported
Heavy Rain	\$101,000
Heavy Snow	Losses not reported
High Wind	\$330,000
Hurricane/Tropical Storm	Losses not reported
Lightning	\$110,000
Thunderstorm	\$11.34 million
Tornado/Funnel Cloud	\$3.02 million
Wildfire	Losses not reported
Winter Storm	\$483,300
TOTAL	\$25.01 million

Source: NOAA-NCEI 2022



What's at Risk?

- FEMA Disaster Declarations

Year of Declaration Date	Declaration Title	Disaster Number
1974	SEVERE STORMS & FLOODING	447
1976	SEVERE STORMS & FLOODING	515
1993	SEVERE BLIZZARD	3107
1996	SEVERE STORMS AND FLOODING	1095
1998	NY - SEVERE WX, SEPT 7, 1998	1244
2000	SEVERE STORMS AND FLOODING	1335
	WEST NILE VIRUS	3155
2001	FIRES AND EXPLOSIONS	1391

Year of Declaration Date	Declaration Title	Disaster Number
2003	POWER OUTAGE	3186
	SNOWSTORMS	3173
2004	SEVERE STORMS AND FLOODING	1534
2005	HURRICANE KATRINA EVACUATION	3262
2006	SEVERE STORMS AND FLOODING	1650
		1670
2011	HURRICANE IRENE	4020
	REMNANTS OF TROPICAL STORM LEE	3341
		4031

Year of Declaration Date	Declaration Title	Disaster Number
		4031
	SEVERE STORMS, FLOODING, TORNADOES, AND STRAIGHT-LINE WINDS	1993
2012	HURRICANE SANDY	3351
2013	SEVERE STORMS AND FLOODING	4129
2014	SEVERE STORMS AND FLOODING	4180
2017	SEVERE WINTER STORM AND SNOWSTORM	4322
2019	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	4472
2020	COVID-19	3434
	COVID-19 PANDEMIC	4480



9 Severe Storm(s)



5 Flood



3 Hurricane



3 Snow



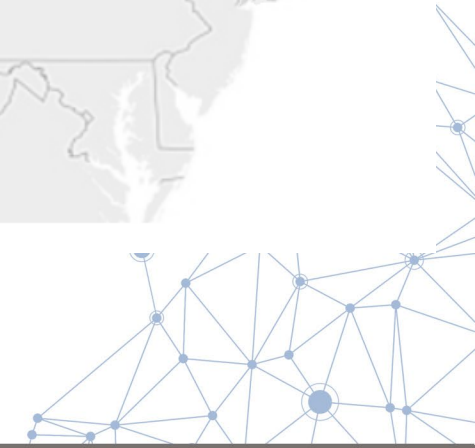
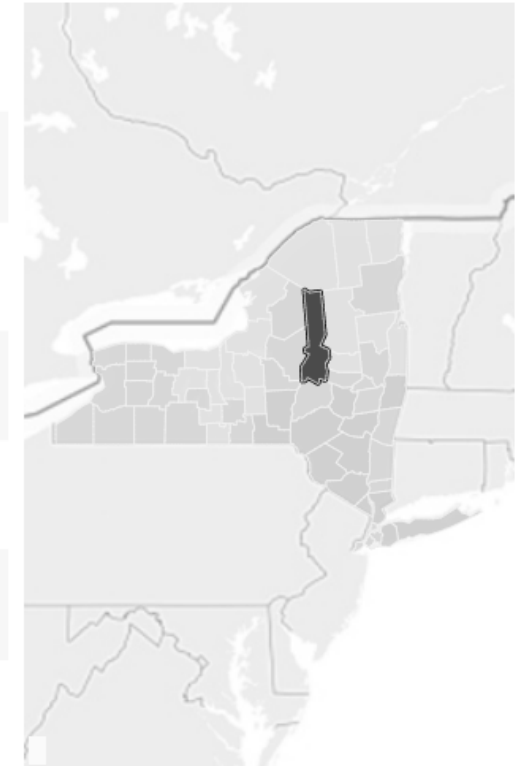
2 Biological



2 Other



1 Fire





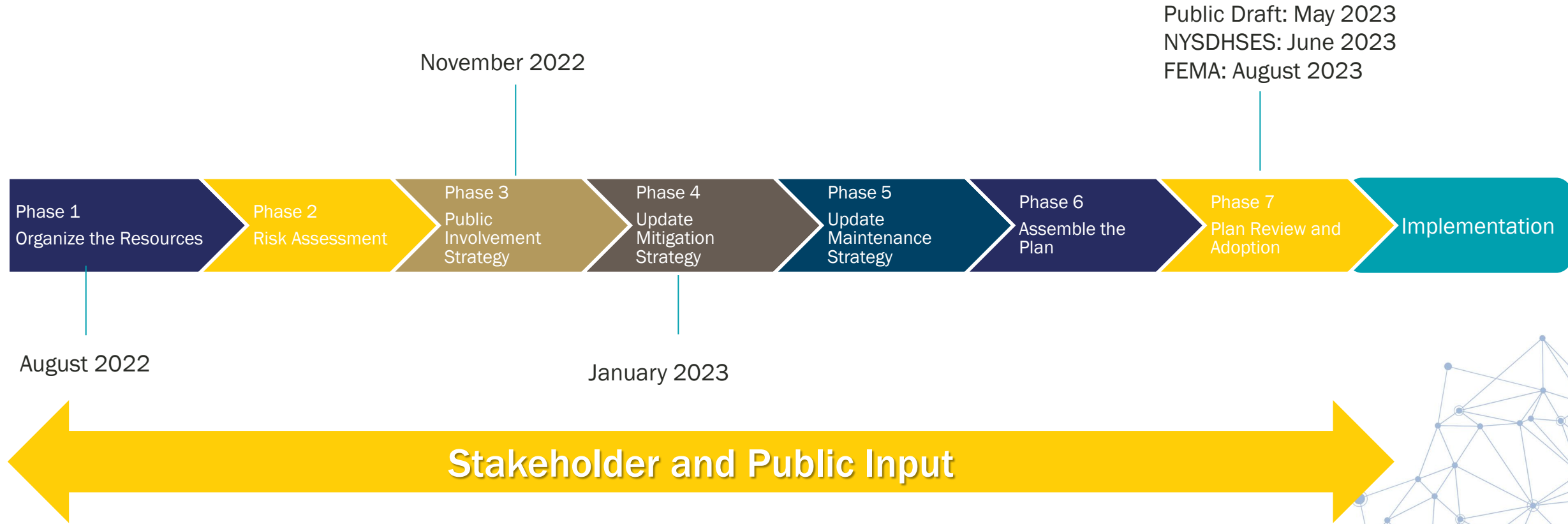
What is our Vision?

The *mission* of the Herkimer County Hazard Mitigation Plan is to **protect and enhance** the **health, safety, property**, and rich history of the communities within Herkimer County and to **increase** economic prosperity and **resilience** by partnering and planning to **identify and reduce future vulnerability** to natural and other emerging hazards in an efficient manner.



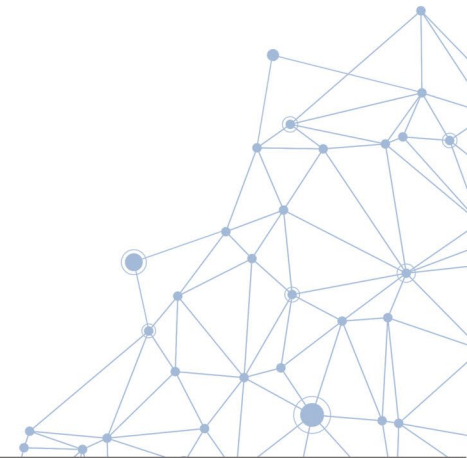


Planning Process Overview





Project Organization





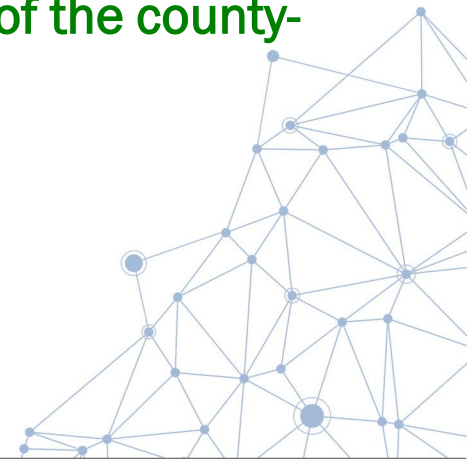
Who is Leading the Planning Process?

Steering Committee Members

Herkimer County Emergency Services	Herkimer ARC
Herkimer County Administrator	Herkimer-Fulton-Hamilton-Otsego BOCES
Herkimer County Highway Dept.	Herkimer County Soil & Water
Herkimer County Public Health	Herkimer County Legislature
Herkimer County Office of the Aging	Herkimer County Sheriff Department
Herkimer Oneida Counties Comprehensive Planning Program	Village of Herkimer
Herkimer County Industrial Development Agency	Village & Town of Frankfort
Bassett Healthcare	Catholic Charities of Herkimer County
Tractor Supply	
Newport Telephone	

Role

- ✓ Guide the Planning Partnership through the planning process
- ✓ Identify the natural hazards of concern
- ✓ Develop mitigation goals and objectives
- ✓ Develop public and stakeholder outreach strategy
- ✓ Support the development of the county-level mitigation strategy
- ✓ Review plan documents





How are we Engaging the Public?

- Developed a website just for the HMP – <https://www.herkimercountynyhmp.com/>
- Social Media Blasts – content and graphics will be sent out
- Surveys – public, stakeholder, and neighbors
- Local announcements of HMP update – local papers, municipal newsletters, etc.
- Local public meetings
- Draft plan review
- Document each and every time this is done!



Why conduct outreach?

- ✓ Informs and educates about hazards and risks
- ✓ Invites interested parties to contribute their views and ideas for mitigation
- ✓ Identifies conflicts and incorporates different perspectives and priorities early in the process
- ✓ Provides data and information that improves overall quality and accuracy of the plan
- ✓ Ensures transparency and builds trust
- ✓ Maximizes opportunities for implementation through greater consensus and acceptance



How to Document your Public and Stakeholder Outreach and In-Kind Hours?

- Track hours spent working on the HMP (outside of meetings with Tetra Tech)
- Track type of outreach you provide to inform residents and stakeholders about the Hazard Mitigation Plan.
- A survey will be emailed to you your input.

Correspondence Type	Meeting Name, Municipality	Date	Start Time	End Time	# of Hours	Agenda/Sign In?	Notes (include meeting topic, how HMP was discussed, etc.)
Press Release	Countywide						Press release issued to several local newspapers

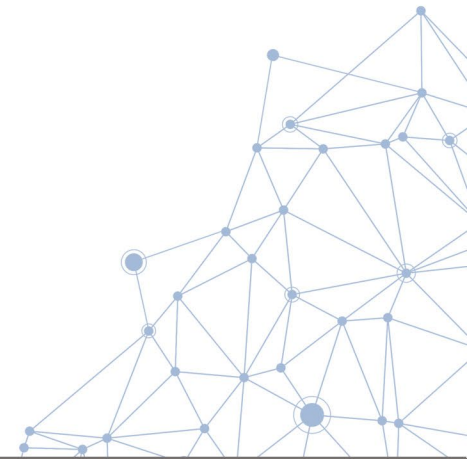


What are the Benefits for Municipal Participation?

- All municipalities are encouraged to actively participate (and continue to be covered by the countywide HMP).

Participating = you remain eligible for pre- and post-disaster mitigation funding!

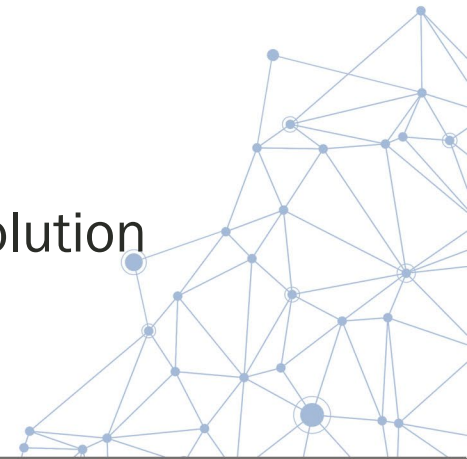
- FEMA has greatly expanded their scrutiny of ‘participation’ since your last plan update...





How Do You Participate?

- Submit Letter of Intent to Participate (LOIP)
 - LOIPs are required from each municipality
 - It outlines expectations and responsibilities for participating jurisdictions and identifies points of contact
 - If you haven't returned it yet, please do so ASAP!
- Assist with the development of your jurisdictional annex
- Attend planning partnership meetings/workshops – like this one!
- Provide data and information in a timely manner
- Support public and stakeholder outreach in your jurisdiction
- Review and provide feedback on Draft and Final Plan documents
- Facilitate the adoption process – governing body must pass an Adoption Resolution
- Implement and Maintain the Plan



Who Should be on Your Team?

If you not fully decided who should be on your municipal mitigation team, the following could provide you a better idea on who to invite:

- NFIP Floodplain Administrator
- Building Code Official
- Engineer
- Land Use Planner
- Clerk
- Mayor/Administrator/Supervisor
- Municipal CFO/Fiscal Representative
- Public Works Superintendent/Director
- Police/Fire Official





Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by **October 14th**.
Email: Cynthia.bianco@tetratech.com

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Herkimer County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (January 2017). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Please update the table to provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

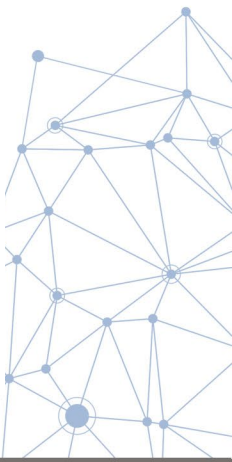
Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
EXAMPLE: May 13-22, 2014	Severe Storms and Flooding (DR-4180)	Yes	On May 16, heavy rainfall resulted in flash flooding and <u>washed out</u> roads.	Although the County was impacted, MUNICIPALITY did not report any damages.

Please identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
EXAMPLE: May 13-22, 2014	Severe Storms and Flooding (DR-4180)	Yes	On May 16, heavy rainfall resulted in flash flooding and <u>washed out</u> roads.	Although the County was impacted, MUNICIPALITY did not report any damages.

List of Worksheets

- Worksheet A - Hazard Event History
- Worksheet B – Capability Assessment
- Worksheet C – National Flood Insurance Program (NFIP) Questionnaire
- Worksheet D – 2017 Mitigation Project Status (Action Plan) Review
- Worksheet E – Development, Building Permits (last 5 years)



Update Annexes with Your Mitigation Team

- Attend the Annex Development Workshop to review each worksheet:
 - October 12th at 1 pm and 7 pm
- Complete worksheets
 - Each worksheet has a suggested department lead
 - Critical asset review due October 14th
 - All worksheets due October 28th





Who Should Conduct Your Capability Assessment?

- Planning and Regulatory Capability
- Building Code
- Administrative and Technical Capability
- Fiscal Capability
- Education and Outreach
- Community Classifications
- Adaptive Capacity

This will be reflected in your municipal annex



Hazard Mitigation Plan 2023 Update
HERKIMER COUNTY, NY
Worksheet B – Capability Assessment

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by October 14th.
Email: Cynthia.bianco@tetratech.com

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Who should assist with completing these tables: Municipal Planner, Clerk, Code Official, Planning Director, Chief Fiscal Officer.

Legal, and Regulatory Capability and Integration

Complete the following table to summarize the planning, legal, and regulatory tools that are available to your community, noting the code citation and date. Use the comment column to provide information on how the item integrates hazard mitigation and risk reduction. For existing items, note how they reduce risk to hazards, or how they might be updated to better include hazard mitigation concepts to reduce risk.

Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
--	---------------------------------	--	---	--

Codes, Ordinances, & Regulations

Building Code

How has or will this be integrated with the HMP and how does this reduce risk?

Zoning/Land Use Code

How has or will this be integrated with the HMP and how does this reduce risk?

Consider the following:

- Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?
- Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?
- Does it contain natural overlay zones that set conditions?
- Does the ordinance require developers to take additional actions to mitigate natural hazard risk?

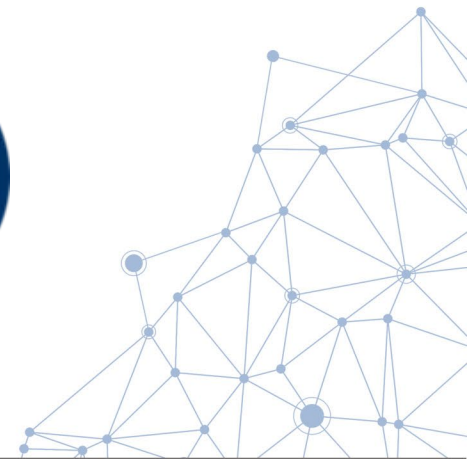




How to Update Municipal Community Lifelines?

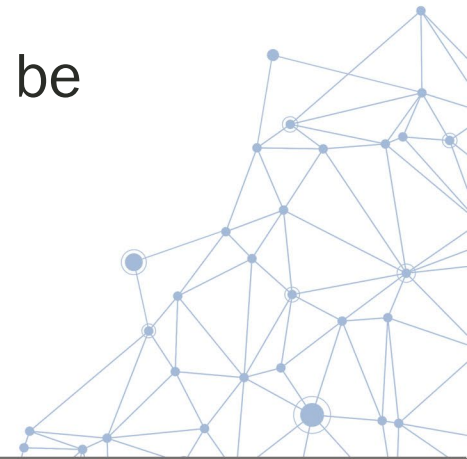
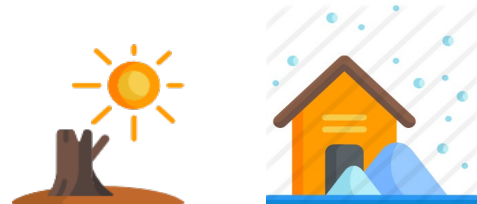
- Review 2017 critical facility inventory to ensure complete using the Survey provided by email.
- Identify your lifelines

Lifelines provide indispensable service that enables the continuous operation of critical business and government functions, and is critical to human health and safety, or economic security



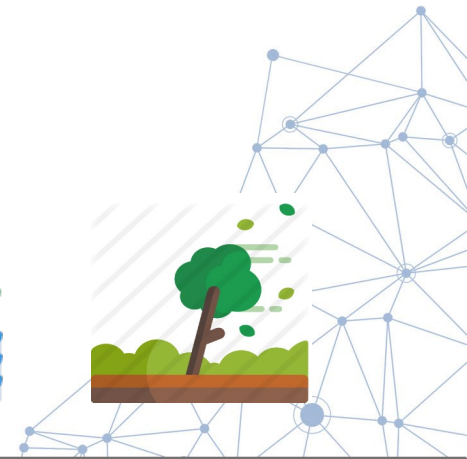
2017 Hazards of Concern

- Drought
 - Earthquake
 - Extreme Heat
 - Flood
 - Landslide
 - Severe Weather (Hail, Hurricane, Lightening, Snow, Tornado)
 - Wildfire
- In review...
 - Have additional hazards impacted the County since 2017?
 - Have hazard been mitigated and no longer cause damage?
 - Should hazards be regrouped to align with the 2019 State HMP?
 - Should additional hazards be included?



Potential 2023 Hazards of Concern

- Dam Failure/Levee Failure
- Disease Outbreak/Pandemic
- Drought
- Extreme Temperature (heat/cold)
- Flood (riverine, stormwater/urban, saturated ground failure)
- Invasive and Nuisance Species (zebra mussels, harmful algal bloom)
- Severe Storm (hail, lightning, straight-line wind, thunderstorms, hurricanes, tornadoes)
- Severe Winter Weather (ice, snowstorms, blizzards)
- Wildfire



Update Risk Assessment

- Update Assets
- Examine Previous Impacts
- Analyze Risks
- Review with Steering Committee
- Risk Assessment Meeting - open to the public





Review Your Previous Mitigation Strategy

- Determine status of 2017 Mitigation Actions
- The updated mitigation strategy will build on this as well as additional identified issues
- What progress has been made on the 2017 HMP actions?
 - Completed?
 - If yes, describe funding source, funding amount, and details on the project and how it was completed.
 - No progress?
 - Describe why.
 - Is this project still a priority? If yes, we will include in the 2023 Update.
 - If no, we will remove.

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Who should provide you information about past mitigation actions: The engineer and DPW should review and update other officials (e.g., Code Official, Planner, OEM Coordinator) to determine the status of each action (a FEMA requirement Party' column, as appropriate.

Use the table on the following page to indicate progress and next steps on your community's mitigation strategy identified detailed as possible.

Provide status updates for each action listed in your last annex:

- IN PROGRESS: Started but not complete
- ONGOING CAPABILITY: An action you complete regularly (maintenance, annual outreach, etc.)
- NO PROGRESS: Not started
- COMPLETE: Finished!

Actions that are COMPLETE or ONGOING will not be carried forward. Let us know if NO PROGRESS or IN PROGRESS!

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	1. Project to be Discontinue 2. If including action be more specific 3. If discontinue, ex
						Cost Level of Protection	


This will be included in your municipal annex


New Mitigation Actions for the 2023 Update

- Opportunity to add new mitigation actions
- This includes all in-progress grant applications (HMGP generators, CDBG acquisitions, etc.)
- Tips for the 2023 update:
 - Quality NOT quantity
 - Specific not general
 - What can realistically be accomplished in 5 years?
 - Action for every hazard of concern

 **Plans and regulations** include government authorities, policies, or codes that encourage risk reduction, such as building codes and state planning regulations. This may also include planning studies.

 **Structure and infrastructure projects** involve modifying existing structures and infrastructure or constructing new structures to reduce the impact of hazards.

 **Natural systems protection projects** minimize losses while also preserving or restoring the function of natural systems.

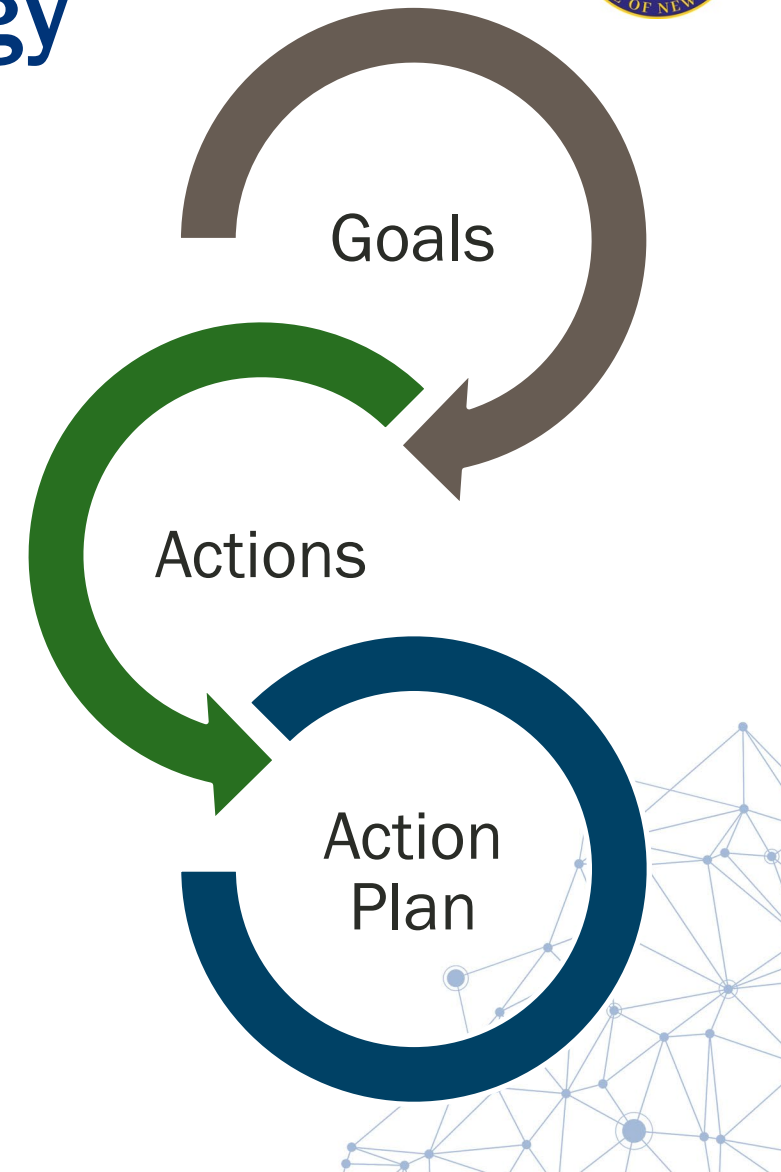
 **Education and awareness programs** include long-term, sustained programs to inform and educate citizens and stakeholders about hazards and mitigation options. This category also include tr



“At the first sign of a flood, you just push this little button.”

Connection to the Mitigation Strategy

- Need a clear connection between vulnerability and proposed mitigation actions.
- Use the capability assessment to provide insight into challenges/opportunities for the mitigation strategy as well.
- Provide a factual basis for activities proposed in the mitigation strategy.





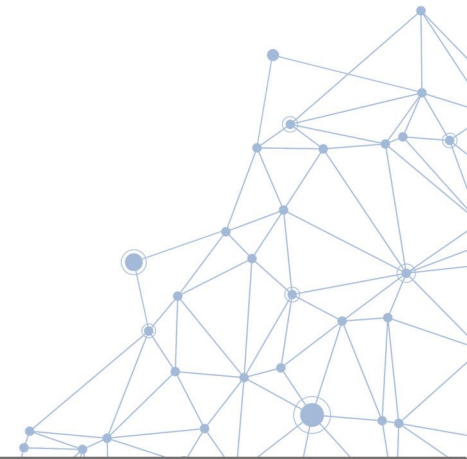
What We Need From You

- Attend ONE of the upcoming annex trainings
- Review and submit your critical facilities
- Complete and return your worksheets
- Start thinking about what new mitigation actions you would like to add to your mitigation strategy.

Annex Training #1 – October 12th @ 1:00 pm

OR

Annex Training #2 – October 12th @ 7:00 pm



Schedule

- Planning Process
 - Planning Partnership Kick-Off – TODAY!
 - Annex Trainings (only attend one) –
 - Annex Training #1 – October 12th @ 1:00 pm
 - Annex Training #2 – October 12th @ 7:00 pm
 - Confirm critical facility/lifeline inventory by October 14th
 - Worksheets due October 28th
 - Update Risk Assessment
 - Begin vulnerability assessment
 - Risk Assessment Meeting – January 2023
- Public Involvement Strategy – ongoing throughout the planning process

Savage Chickens


by Doug Savage



© 2013 BY Doug Savage
www.savagechickens.com



Next Steps

- Determine Hazards of Concern to include in the HMP
- Review Hazard Profiles
- Review Risk Assessment Results
- Identify Problems and Problem Areas
- Develop Mitigation Strategy
- Review Draft Plan
- Submit Draft Plan for DHSES/FEMA Review
- Adopt FEMA-Approved Plan
- Implement Projects and Maintain the Plan  Increase Resilience!



Questions?



Herkimer County Emergency Services Project Contacts

John J. Raymond, Director
jraymond@herkimercounty.org

Robert Vandawalker, Emergency Management
Coordinator
rvandawalker@herkimercounty.org

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, Project Manager
(973) 630-8044 | cynthia.bianco@tetrattech.com

Heather Apgar, CFM, Lead Planner
(973) 630-8046 | heather.apgar@tetrattech.com



**Thank
You!**



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Herkimer County Hazard Mitigation Plan Support Workshop – AGENDA
MEETING DATE/TIME: October 12, 2022 – 1:00 pm or 7:00 pm



In-Person/Hybrid Meeting: 9-1-1 Center, 71 Reservoir Road, Herkimer

Remote – 1:00 pm MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – 1:00 pm Dial-in by phone (audio only) - [+1 518-300-1367,,584840076#](tel:+15183001367584840076) United States, Albany; Phone Conference ID: 584 840 076#

Remote – 7:00 pm MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – 7:00 pm Dial-in by phone (audio only) - [+1 518-300-1367,,174141986#](tel:+15183001367174141986) United States, Albany; Phone Conference ID: 174 141 986#

1. Welcome and Introductions
2. Benefits of Hazard Mitigation
3. Planning Partnership Responsibilities
4. Worksheet A - Hazard Event History
5. Worksheet B – Capability Assessment
6. Worksheet C – National Flood Insurance Program (NFIP) Questionnaire
7. Worksheet D – 2017 Mitigation Project Status (Action Plan) Review
8. Worksheet E – Development, Building Permits (last 5 years) In-Kind Services Tracking
9. Community Lifelines/Critical Facilities
10. Questions/Next Steps/Wrap Up



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Purpose of Meeting:	Planning Partnership Homework Support Meeting
Location of Meeting:	Hybrid In-person and Teleconference Teams Meeting
Date of Meeting:	October 12, 2022, 1:00 pm – 2:00 pm; 7:00 pm – 8:00 pm

1 Pm Meeting Attendees:

John J. Raymond	Director	Herkimer County Emergency Services
Robert (Bob) Vandawalker	Emergency Management Coordinator	Herkimer County Emergency Services
Mark Buddle	Highway Superintendent	Town of Columbia
Dominick Frank	Town Supervisor	Town of Herkimer
Frances Donley*	Town Supervisor	Town of Russia
Barry Vickers*	Codes	Town of Salisbury
Richard Bronner*	Town Supervisor	Town of Stark
Marvin Jones	Trustee	Village of Cold Brook
Marc Butler*	Mayor	Village of Newport
Scott Burnett*	Water Superintendent	Village of Poland
Cynthia Addonizio-Bianco*	Project Manager	Tetra Tech, Inc. (Tt)

7pm Meeting Attendees

John J. Raymond	Director	Herkimer County Emergency Services
L. Peter Rovazzi*	Town Supervisor	Town of German Flatts
Richard Sweeney*	Codes	Town of German Flatts
Mark C. O’Sullivan	Town Council	Town of Litchfield
Daniel Casler	Town Supervisor	Town of Little Falls
“Chet” Chester P. Szymanski II	Engineer	Little Falls/Dolgeville
Gary Snyder	Councilman	Town of Norway
Ronald Beach	Deputy Supervisor	Town of Schuyler
Cynthia Addonizio-Bianco*	Project Manager	Tetra Tech, Inc. (Tt)

*Attended remotely via Teams

Agenda Summary: Two similar meetings to provide an overview of the hazard mitigation planning process and participant responsibilities.

Item No.	Description	Action item(s):
1	Overview/Agenda: Tetra Tech welcomed the attendees and provided an overview of the agenda which included the following topics: Benefits of hazard mitigation, Planning Partnership responsibilities, Worksheet review and data input, community lifelines and critical facilities, and next steps. Refer to the attached copy of the presentation for details.	
2	Discussion items: <ul style="list-style-type: none"> ▪ Worksheet information will be included in the community section or annex of the mitigation plan. 	



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<ul style="list-style-type: none"> ▪ Worksheet A: Hazard Event History - it is important to document local natural hazard events that have resulted in damages <i>not limited to named or declared events</i>. For example, if a community has experience localized flooding, note the date, location, and any damages or road closures. This information will help inform the development of projects to reduce future risk and damages. ▪ Worksheet B: Capability Assessment – Basic information such as whether or not the planning mechanism, code, or ordinance is in place. Additional information includes the adoption date of the item and a description of how it reduces risk or integrates hazard mitigation into the community activities. ▪ Worksheet C: NFIP Questionnaire – This should be completed by the community National Flood Insurance Program Administrator. ▪ Worksheet D: Action Review - This has been populated with the mitigation actions from the current plan. Information on the progress of the project is required (is it complete, in progress, no longer relevant?). Also indicate whether the project should be included in the plan update. ▪ Worksheet E: Building Permits - A listing of permits for new development since 2017 is required. This will provide an understanding of where development is occurring and if it is occurring in hazard areas. A description of the county permitting activities on behalf of local government will be included in the plan. A potential mitigation action may be to ensure that permits in floodplains are tracked going forward. 	
3	<p>Submittal date: All municipalities were requested to submit the completed worksheets to Cynthia.bianco@tetrattech.com on or before October 28th.</p>	Municipalities to submit worksheets to Tt on or before 10/28/22.
4	<p>Questions/Support: Questions should be directed to Cynthia Bianco of Tetra Tech at Cynthia.bianco@tetrattech.com or John Raymond, Herkimer County Emergency Services at jraymond@herkimercounty.org.</p>	
7	<p>Conclusion - The meetings concluded at 2:00 pm and 8 pm.</p>	



Herkimer County Hazard Mitigation Plan Update 2023

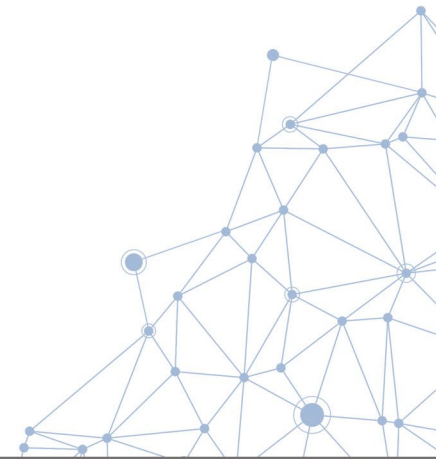
Community Support Workshop



Agenda



- 1 Welcome
- 2 Benefits of Hazard Mitigation
- 3 Hazard Mitigation Planning Overview
- 4 Planning Partnership Responsibilities
- 5 Worksheet Review/Data Input
- 6 Community Lifelines/Critical Facilities
- 7 Questions/Next Steps/Wrap Up



This is the Benefit of Participating in the Plan



By participating AND adopting the hazard mitigation plan:

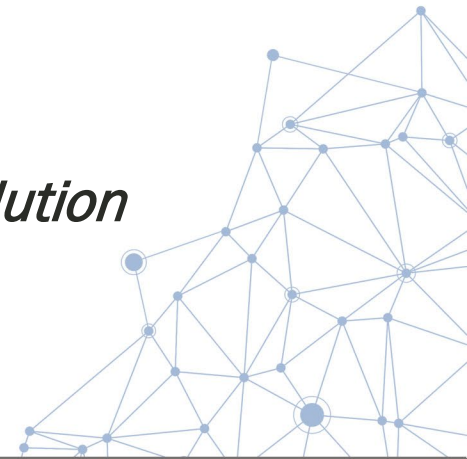
- 1.** Your community remains eligible for pre-disaster mitigation funding!
- 2.** Your plan will help reduce future damages in your community



How Do You Participate?



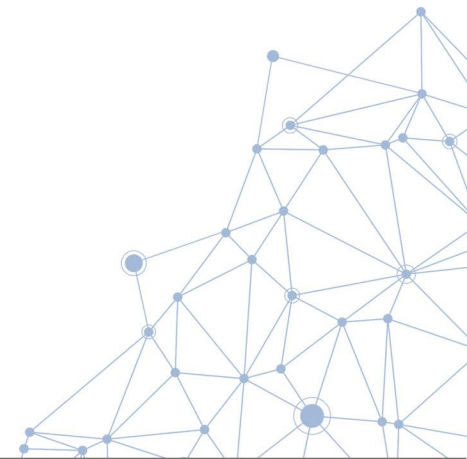
- Submit Letter of Intent to Participate
 - If you haven't returned it yet, please do so ASAP!
- ***Provide information about your town or village.***
(This will be included in your chapter of the plan.)
- Attend planning partnership meetings/workshops
- Provide data and information in a timely manner
- Support public and stakeholder outreach in your jurisdiction
- Review and provide feedback on Draft and Final Plan documents
- Facilitate the adoption process – ***governing body must pass an Adoption Resolution***
- Implement and maintain the Plan





Hazard Mitigation Planning Team

- Update contact information if necessary
 - Primary Point of Contact
 - Alternate Point of Contact
 - NFIP Floodplain Administrator
- **Remember**, this is a public document so your contact information will also be public.





Assemble Your Mitigation Team!

If you have not fully decided who should be on your municipal team, the following can provide you a better idea on who to invite:

- NFIP Floodplain Administrator
- Building Code Official
- Engineer
- Land Use Planner
- Clerk
- Mayor/Administrator
- Municipal CFO/Fiscal Representative
- Public Works Superintendent/Director
- Police/Fire Official




What We Your Input!



- Tetra Tech has provided you with worksheets
- Information from the last plan has been pre-populated in your worksheets, as available.
- Your Mitigation Team is responsible for
 - providing updated information
 - reviewing the information from the 2017 plan.
- *This information will be included in your town or village annex*




SECTION 9.10. Town of Herkimer

SECTION 9.

9.10 TOWN OF HERKIMER

This section presents the jurisdictional annex for the Town of Herkimer that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Herkimer’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.


9.10.1 Hazard Mitigation Planning Team

The Town of Herkimer identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including **XXXX**. The **XXXX** represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership, **Steering Committee**, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and **Appendix C** (Meeting Documentation).

Table 9.1-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Kathy Capra - Councilwoman	Name/Title: Dominic Frank - Supervisor
Address:	Address:
Phone Number: (315) 868-8792	Phone Number: (315) 868-4180
Email: enycor@hotmail.com	Email: supervisor@townofherkimer.org
NRIP Floodplain Administrator	
Name/Title: Ken Collis - Codes Department	
Address:	
Phone Number: (315) 866-8106	
Email: codes@townofherkimer.org	
Additional Contributors	
Name/Title:	
Method of Participation:	


2023 | HAZARD MITIGATION PLAN – HERKIMER COUNTY, NEW YORK



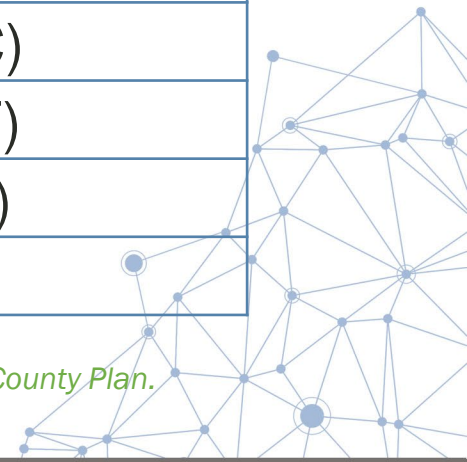
Transfer of Information from 2017 Plan



- If your community participated in the last plan, Information from the last plan has been pre-populated in your worksheets, as available.
- All communities have available information regarding capabilities included where possible.

Dolgeville (V)*
Fairfield (T)
Frankfort (T)
Frankfort (V)
German Flatts (T)
Herkimer (T)
Herkimer (V)
Ilion (V)
Little Falls (C)
Little Falls (T)
Manheim (T)
Mohawk (V)

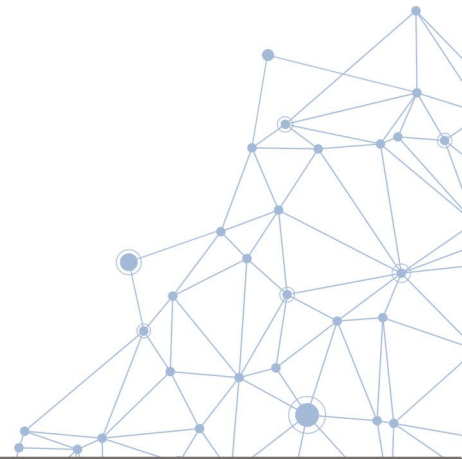
**Dolgeville is covered under the Fulton County Plan.*



Hazard Event History Specific to Your Town or Village



- Describe impactful hazard events that have occurred since 2017
 - When did the event occur?
 - What type of event was it?
 - What are the details of how the event unfolded?
 - How was the community impacted?
 - Damages
 - Closures
 - Injuries/deaths





HAZARD EVENT HISTORY

- ✓ Fill out contact information.
- ✓ Provide a summary of damages/impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.
- ✓ Identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc

WORKSHEET A – HAZARD EVENT HISTORY



Hazard Mitigation Plan 2023 Update
HERKIMER COUNTY, NY
Worksheet A – Hazard Event History

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by October 28th.
Email: Cynthia.bianco@tetratech.com

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Herkimer County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since January 2017. Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Please update the table to provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	
October 31- November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	
January 2020 – ongoing	Covid-19 Pandemic	Yes		
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 7,000 customers were without power at the height of the storm.	



Hazard Mitigation Plan 2023 Update
HERKIMER COUNTY, NY
Worksheet A – Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses

N/A = Not Applicable

Please identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses

- ✓ Fill out contact information.
- ✓ Provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.
- ✓ Identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc.

Recent and Expected Future Development



- List the number of building permits for **NEW construction** issued since 2017
 - Do not include redevelopments or improvements
- List and describe recent **MAJOR DEVELOPMENT** (housing developments, hotels, commercial or industrial development, etc.) that has taken place since 2017
- List and describe **ANTICIPATED MAJOR DEVELOPMENT** likely to take place in the next 5 years.

WORKSHEET E – RECENT DEVELOPMENT (BUILDING PERMITS)



Hazard Mitigation Plan 2023 Update
 HERKIMER COUNTY, NY
 Worksheet E – Building Permits

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by Email: Cynthia.bianco@tetratech.com October 28th.

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Who can assist with completing these tables: The Building Department, Planning Department, and NFIP Floodplain Administrator

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family												
Multi-Family												
Other (commercial, mixed-use, etc.)												
Total New Construction Permits Issued												

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
Recent Major Development and Infrastructure from 2017 to Present					
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					

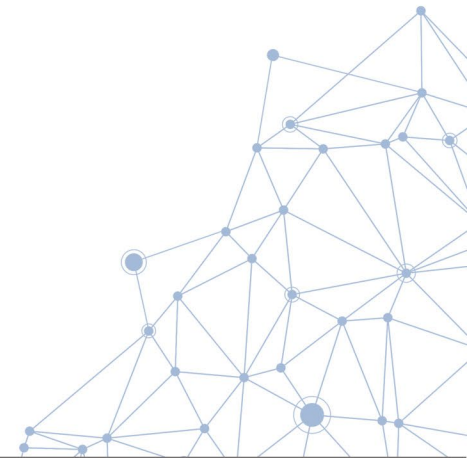
SFHA Special Flood Hazard Area (1% flood event)
 * Only location-specific hazard zones or vulnerabilities identified.



National Flood Insurance Program



- This section should worksheet to be filled Floodplain Administrator for your community.
- Answer the questions regarding NFIP participation and implementation of floodplain administration.
- Provide details where necessary



WORKSHEET C – FLOODPLAIN ADMINISTRATION QUESTIONNAIRE



Hazard Mitigation Plan 2023 Update
 HERKIMER COUNTY, NY
 Worksheet C – NFIP Floodplain Administrator Questionnaire

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by October 28th. Email: Cynthia.bianco@tetratech.com

Municipality: _____

Name and Title of Person Completing Worksheet: _____

Who can assist with completing this table: NFIP Floodplain Administrator – as identified by role/title in your Flood Damage Prevention Ordinance.

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction. Do you maintain a list of properties that have been damaged by flooding?	
Do you maintain a list of property owners interested in flood mitigation? How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what projects are underway.	
How do you make Substantial Damage determinations? How many were declared for recent flood events in your jurisdiction?	
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? If there are mitigation properties, how were the projects funded?	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	
NFIP Compliance	

WORKSHEET C – FLOODPLAIN ADMINISTRATION QUESTIONNAIRE



Hazard Mitigation Plan 2023 Update
 HERKIMER COUNTY, NY
 Worksheet C – NFIP Floodplain Administrator Questionnaire



NFIP Topic	Comments
What local department is responsible for floodplain management?	
Are any certified floodplain managers on staff in your jurisdiction?	
Do you have access to resources to determine possible future flooding conditions from climate change?	
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	
What are the barriers to running an effective NFIP program in the community, if any?	
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state the violations.	
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	
What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended?	
Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways?	
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	

Status of Previous HMP Mitigation Actions*



- Report on the status of previous mitigation actions from the 2017 plan.
 - **In Progress:** The action has been started but has not been completed to date.
 - **No Progress:** The action has not been started
 - **Ongoing Capability:** The action has been started and is now part of the municipality's regular or annual operations
 - Examples: Regular stormwater cleaning, annual outreach, regular trainings for staff
 - **Complete:** The action has been 100% completed and implemented

* If you did not participate in the 2017 plan you did not receive this worksheet and you do not fill out this worksheet.

WORKSHEET D – 2017 MITIGATION PROJECT REVIEW



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Worksheet D - Mitigation Action Review
MUNICIPALITY

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by Email: Cynthia.bianco@tetratech.com October 28th.



Municipality: _____

Name and Title of Person Completing Worksheet: _____

Who should provide you information about past mitigation actions: The engineer and DPW should review and update the table and coordinate with other officials (e.g., Code Official, Planner, OEM Coordinator) to determine the status of each action (a FEMA requirement) as identified in the 'Responsible Party' column, as appropriate.

Use the table on the following page to indicate progress and next steps on your community's mitigation strategy identified in the 2017 HMP. Please be as detailed as possible.

Provide status updates for each action listed in your last annex:

- IN PROGRESS: Started but not complete
- ONGOING CAPABILITY: An action you complete regularly (maintenance, annual outreach, etc.)
- NO PROGRESS: Not started
- COMPLETE: Finished!



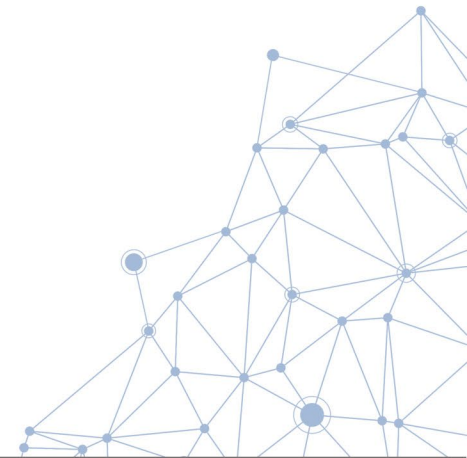
Actions that are COMPLETE or ONGOING will not be carried forward. Let us know if NO PROGRESS or IN PROGRESS actions should be carried forward.

(See next page for table to be completed.)

Status of Previous HMP Mitigation Actions



- Indicate if this action should be included in the 2023
 - In progress actions should be carried over
 - If identified as an ongoing capability, we will include it in the integration section of the annex but not as a 2023 action
 - Completed actions will not be carried over as actions in the 2023 HMP update



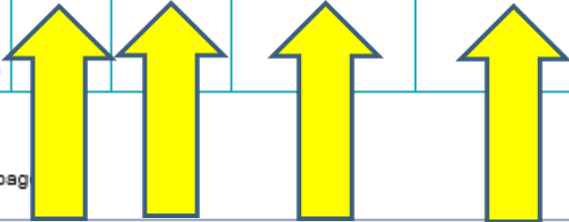
WORKSHEET D – 2017 MITIGATION PROJECT REVIEW



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Worksheet D - Mitigation Action Review
MUNICIPALITY



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
TOH-001	Beaver Creek Culvert Expansion					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
TOH-002	Establish List of Alternative Potable Water Sources					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
TOH-003	West Canada Creek - Landslide, Erosion & Flooding Solution					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
TOH-004 E	East Herkimer Water District Bank Stabilization					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		



Additional input on next page



Status of Previous Mitigation Actions

- List any mitigation actions or measures taken since the 2017 plan that were not part of the 2017 mitigation strategy
 - Did you install generators at critical facilities?
 - Upsize culverts or drainage pipes to reduce flooding?



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Worksheet D - Mitigation Action Review Worksheet
MUNICIPALITY

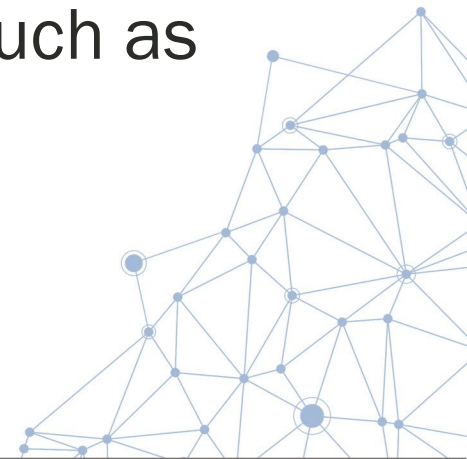
Have you completed, or are there any in-progress or proposed mitigation or resilience projects that are not included in the table above since 2017? If yes, please provide the project details, what the project is mitigating and who is implementing below.

* If you did not participate in the 2017 plan you did not receive this worksheet but we would like to document what mitigation projects you have been implementing. Examples of these projects include upsized culverts, stream management projects, or back up power/generators.



Identified Issues

- Where are the problem areas in your community related to damages due to natural hazards?
 - What problems need solving?
 - What solutions need implementation?
 - What projects need funding?
- Tell us about floodprone locations outside of the floodplain such as stormwater/urban flooding areas
- Tell us about areas that experience damages.



Planning, Legal, and Regulatory Capability



- This table reviews our codes, ordinances, & requirements; planning documents; and response/recovery planning
- Indicate if you have the plan/ordinance/requirement
- Indicate if it already integrates hazard mitigation
 - Tetra Tech has reviewed a majority of your plans, codes and ordinances and updated this section. Please review and revise accordingly.
- Describe the plan/ordinance/requirement
 - Who is in charge of implementation?
 - When was it adopted/updated?
 - How does it integrate hazard mitigation/emergency response?
 - Again, Tetra Tech addressed this during our review. Please review and revise accordingly.

WORKSHEET B – CAPABILITY ASSESSMENT



Hazard Mitigation Plan 2023 Update
HERKIMER COUNTY, NY
Worksheet B – Capability Assessment

Please work with your municipal planning team and complete this worksheet. Please send electronic Word version to Cynthia Bianco (Tetra Tech) by **October 14th**.
Email: Cynthia.bianco@tetratech.com

Municipality: Town of Herkimer

Name and Title of Person Completing Worksheet: _____

Who can assist with completing these tables: Municipal Planner, Clerk, Code Official, Administrator, Chief Fiscal Officer.

Planning, Legal, and Regulatory Capability and Integration

Please complete the following table to summarize the planning, legal, and regulatory tools that are available to your community, noting the code citation and date. Use the comment field to provide information on how the item integrates hazard mitigation and risk reduction. For existing items, note how they reduce risk to hazards, or how they might be updated to better include hazard mitigation concepts to reduce risk.

Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Codes, Ordinances, & Regulations				
Building Code	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Codes Officer and Zoning Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town of Herkimer has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Zoning Ordinance – Town of Herkimer	Local	Codes Officer and Zoning Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town of Herkimer Zoning Ordinance is for promoting the health, safety, morals, or the general welfare of the community, and to lessen congestion in the streets, to secure safety from fire, flood, panic and other dangers, to provide adequate light and air, to prevent the overcrowding of land and to avoid undue concentration of population, water, sewerage, schools, parks and other public requirements.				
Consider the following:				
<ul style="list-style-type: none"> Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use? 				



Brainstorm New Mitigation Actions for the 2023 HMP Update



- Opportunity to add new mitigation actions
- This includes all in-progress grant applications (HMGP generators, CDBG acquisitions, etc.)
- Tips for the 2023 update:
 - One action for each hazard of concern
 - Quality NOT quantity
 - Specific not general
 - What can realistically be accomplished in 5 years?



Plans and regulations include government authorities, policies, or codes that encourage risk reduction, such as building codes and state planning regulations. This may also include planning studies.



Structure and infrastructure projects involve modifying existing structures and infrastructure or constructing new structures to reduce the impact of hazards.



Natural systems protection projects minimize losses while also preserving or restoring the function of natural systems.



Education and awareness programs include long-term, sustained programs to inform and educate citizens and stakeholders about hazards and mitigation options. This category could also include training.

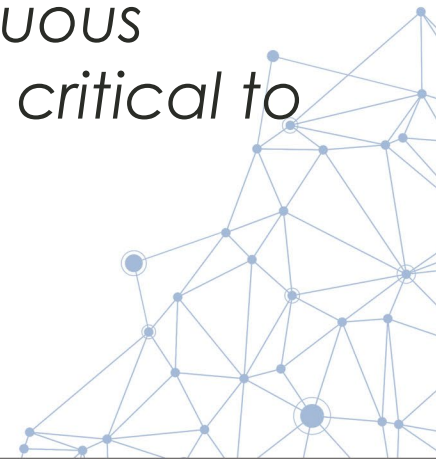


"At the first sign of a flood, you just push this little button."



Critical Facilities and Lifelines

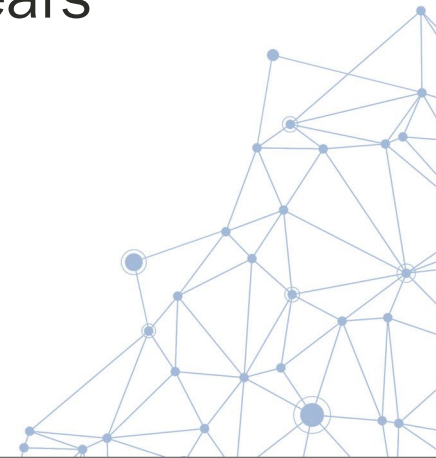
- ✓ **Critical Facilities** are those facilities considered critical to the health and welfare of the population and that are especially important following a hazard
 - ✓ Include essential facilities to ensure a full recovery following the occurrence of a hazard event, transportation systems, lifeline utility systems, high-potential loss facilities, and hazardous material facilities.
- ✓ **Lifelines** provide indispensable service that enables the continuous operation of *critical business* and *government functions*, and is critical to *human health and safety*, or *economic security*





Critical Facilities and Lifelines

- Tetra Tech will send out the Critical Facilities list to your community for your review – we push back the deadline as necessary (originally October 14th)
- Ensure the list is complete
 - Add new critical facilities that have been built/established in the last 5 years
 - Omit critical facilities that have been decommissioned in the last 5 years





We Need YOU Engaged and Involved!

- Update your Municipal webpage and link to County's HMP webpage (<https://www.herkimercountynyhmp.com/>)
 - Social Media Blasts – Tetra Tech will provide you with content and graphics
 - Local Announcements of HMP Update – local papers, newsletters, etc.
 - Local public meetings
 - Draft Plan Review
 - Document each and every time this done!
- Why conduct outreach?
 - Informs and educates about hazards and risks
 - Invites interested parties to contribute their views and ideas for mitigation
 - Identifies conflicts and incorporates different perspectives and priorities early in the process
 - Provides data and information that improves overall quality and accuracy of the plan
 - Ensures transparency and builds trust
 - Maximizes opportunities for implementation through greater consensus and acceptance

In-Kind Services



Dates	Event Type Type of Outreach or Work on Hazard Mitigation Plan	EVENT NAME	Number of Hours Spent	Description of Outreach or Work Performed
EXAMPLE (9/30/22)	OUTREACH	ABC TOWN MEETING	1	ATTENDED MUNICIPAL MEETING TO PROVIDE MITIGATION PLAN UPDATE
EXAMPLE (10/5/22)	OUTREACH	TOWN WEBSITE	.5	POSTED SURVEY LINK



Schedule

- Overview and Milestones

- Planning Process

- Steering Committee Kick-Off – Complete
- Planning Partnership Kick-Off – Complete

- Update Risk Assessment

- Data collection is underway; *confirm critical facility inventory*
- Hazards of concern confirmed

- Public Involvement Strategy – ongoing throughout the planning process

- Mitigation Strategy

- Mitigation Strategy Workshop
- Draft Plan to Steering Committee by May 2023

- Final draft plan to NYSDHSES and FEMA by August 2023




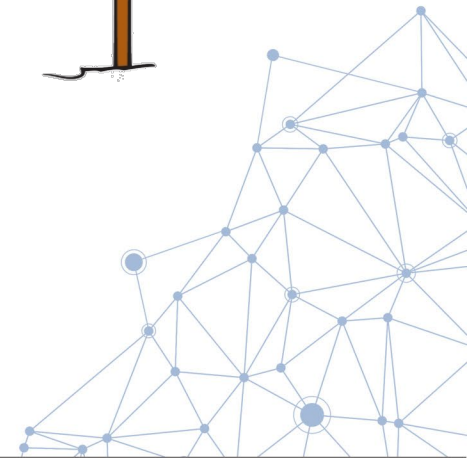
Savage Chickens

by Doug Savage



Next Steps

- COMPLETE THE WORKSHEETS
 - Use Tetra Tech to answer any questions you may have!
- Review Risk Assessment Results
- Identify Problems and Problem Areas
- Develop Mitigation Strategy
- Review Draft Plan
- Submit Draft Plan for NYSDHSES/FEMA Review
- Adopt FEMA-Approved Plan
- Implement Projects and Maintain the Plan  Increase Resilience!



Questions?



Herkimer County Project Contacts

John J. Raymond, Director
jraymond@herkimercounty.org

Robert Vandawalker, Emergency Management Coordinator
rvandawalker@herkimercounty.org

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, Project Manager
(973) 630-8044 | cynthia.bianco@tetrattech.com

Heather Apgar, CFM, Lead Planner
(973) 630-8046 | heather.apgar@tetrattech.com



**Thank
You!**



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee #2-1 – AGENDA
MEETING DATE/TIME: January 17, 2023 – 2:00 pm



In-Person/Hybrid Meeting: Herkimer County Emergency Services, 911 Center, 71 Reservoir Road, Herkimer, NY 13350

Remote – MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – Dial-in by phone (audio only) - [+1 518-300-1367](tel:+15183001367), Albany ; Phone Conference ID: 293 564 767#

- 1. Welcome**
- 2. Committee Responsibilities**
- 3. Schedule**
- 4. Progress Report**
- 5. Public and Stakeholder Outreach**
- 6. Data Collection - Plans and Reports**
- 7. Confirmation of Hazards of Concern**
- 8. Goals and Objectives Updates**
- 9. SWOO (Strengths, Weaknesses, Obstacles, Opportunities)**
- 10. Welcome and Introductions**
- 11. In-kind Services Tracking**
- 12. Next Steps/Questions/Wrap Up**



Herkimer County
 Hazard Mitigation Plan Update
 Meeting Notes



Purpose of Meeting:	Steering Committee Meeting
Location of Meeting:	Hybrid In-person and Teleconference Teams Meeting
Date of Meeting:	January 17, 2023, 2:00 pm – 3:33 pm

Attendees:

John Raymond	Herkimer County Emergency Services
Rodney Denslow	Tractor Supply
Matt Palumbo	Police Chief, Town of Frankfort
Gerald Pedersen	NYS DHSES Emergency Management
Maureen Petrie	Catholic Charities of Herkimer County
Joseph Tomanio	Newport Telephone
Stephanie Tyoe	Herkimer County Highway Dept.
James (Jim) Wallace	Herkimer County
Rick Reichert	Herkimer-Oneida Planning Agency
Cynthia Addonizio-Bianco	Tetra Tech

Agenda Summary: To confirm Hazards of Concern, Mission Statement, Goals, and Objectives; Progress reporting, facilitate a SWOO (Strengths, Weaknesses, Obstacles, Opportunities) session to form a basis for identification of mitigation strategies.

Item No.	Description	Action item(s):
1	<p>Welcome and Opening Remarks</p> <ul style="list-style-type: none"> Ms. Bianco of Tetra Tech provided opening remarks to note that the purpose of this meeting is to confirm Hazards of Concern, Mission Statement, Goals, and Objectives; Progress reporting, facilitate a SWOO (Strengths, Weaknesses, Obstacles, Opportunities) session to form a basis for identification of mitigation strategies. It was noted that both steering committee and public input has been considered in the update of the plan goals and objectives as well as the update of the hazards of concern to be included in the plan. 	
2	<p>Progress Report</p> <ul style="list-style-type: none"> Activities since the last meeting include the distribution of stakeholder and the public surveys to gather input regarding hazard history and problem areas throughout the county. Four municipalities have chosen not to participate: Towns of Danube, Fairfield, Newport, and Webb. Mr. Raymond is working to contact the other communities to assist in submittal of the initial worksheets to gather pertinent information to include in the plan. The planning process is on schedule. 	
3	<p>Public and Stakeholder outreach</p> <ul style="list-style-type: none"> The public survey has been distributed via social media and emails to stakeholders and 27 responses have been received to date. 	



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<ul style="list-style-type: none"> • A stakeholder survey to gather information from local and regional agencies has been distributed via email and 4 responses have been received. • A survey to gather mitigation information from neighboring counties has been distributed with one response to date. • Overall responses indicate significant concern with the flood and ice dam, pandemic, and severe winter storm hazards. 	
4	<p>Hazards of Concern</p> <ul style="list-style-type: none"> • The committee reviewed the updated list of hazards of concern to the county. Based on a review of hazard history in the county, steering committee input and public input the list of hazards to be profiled in the plan include: <ul style="list-style-type: none"> ○ Disease Outbreak/Pandemic ○ Dam Failure ○ Drought ○ Extreme Temperature ○ Flood ○ Invasive Species ○ Severe Storm (Hail, Hurricane, Lightening, Tornado) ○ Severe Winter Storm (Snow, ○ Wildfire • According to FEMA guidance, each participating community must identify a mitigation action for each hazard of concern that is deemed to have a significant impact on the community. 	
5	<p>Goals and Objectives</p> <ul style="list-style-type: none"> • Tetra Tech reviewed the updated Mission Statement, Goals, and Objectives. Based on the goals and objectives included in the current plan, these have been updated based on steering committee input obtained in the September committee meeting and were approved by the committee. 	
6	<p>SWOO (Strengths, Weaknesses, Obstacles, Opportunities)</p> <ul style="list-style-type: none"> • The committed participated in a facilitated discussion to identify the Strengths, Weaknesses, Obstacles, Opportunities related to mitigating the impacts of natural hazards in the county. Initial input was received from 3 committee members via an online survey. These responses were used to inspire discussion and to identify potential mitigation actions. • Potential actions identified include: <ul style="list-style-type: none"> ○ Review local codes regarding development in the floodplain ○ Continue communication with NYPA regarding management of water levels in the Hinkley Reservoir. Create a standing multi-agency group to periodically discuss management of water levels. ○ Address potential of isolated areas preventing access/response during and after flood events. Document 	<p>Mr. Raymond to provide manual mapping of isolated areas document after the 2019 flood to Mr. Reichert for creation of a digital map of flood-isolated areas.</p>



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<p>historical isolated areas in GIS for future management and life safety activities.</p> <ul style="list-style-type: none"> ○ Develop memoranda of agreement for inter-municipal agreements to support snow removal, agricultural water supply ○ Support outreach to increase staff resources for public works activities ○ Increase outreach to inform residents of available supplies, warming/cooling centers/charge stations during emergencies ○ Support development or purchase of real-time mapping of road conditions, emergency access to routes during emergencies. ○ Continue to upgrade aging water systems to minimize temperature related failures. ○ Fund emergency generators for schools to enable use as warming/cooling/emergency centers. ○ Research the potential for consolidation of town crews in quadrants to improve snow removal response. ○ Work with NYSDEC to get guidance regarding identification and management of ash trees in protected areas. 	
7	<p>Schedule</p> <ul style="list-style-type: none"> ● The project is running on schedule. ● Ms. Bianco reviewed upcoming meetings/key dates: <ul style="list-style-type: none"> ○ Steering Committee Risk Assessment Meeting – 2/21/23 ○ Planning Partnership Risk Assessment – 2/27/23 ○ Planning Partnership Mitigation Strategy Workshop – 3/27/23 ○ Public Review of Draft Plan – July 2023 	
8	<p>In-Kind Services Tracking</p> <ul style="list-style-type: none"> ● Mr. Raymond indicated that the county is on track with documenting in-kind services for tasks including critical facility inventory update, municipal support and outreach, and grant administration. 	
9	<p>Next Steps</p> <ul style="list-style-type: none"> ● Review Hazard Profiles ● Review Risk Assessment Results ● Identify Problems and Problem Areas ● Develop Mitigation Strategy ● Review Draft Plan ● Submit Draft Plan for NYSDHSES/FEMA Review ● Adopt FEMA-Approved Plan ● Implement Projects and Maintain the Plan 	
10	<p>Conclusion - The meeting concluded at 3:33 pm.</p>	

Herkimer County, New York Hazard Mitigation Plan – 2023 Update Steering Committee Meeting | January 17, 2023

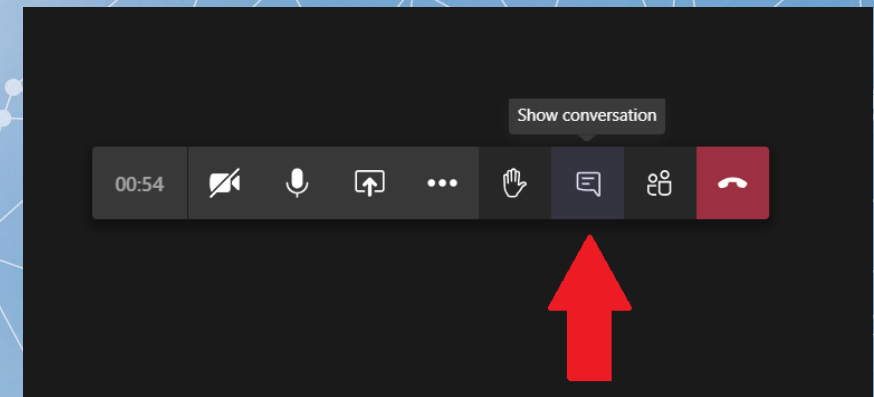
WELCOME!

If you are attending the webinar on your computer, please add your name, title, and organization(s) to the chat box.

Bring your mouse to the lower part of the screen until a set of buttons appears. They may also be at the top of your screen.

Click “Show Conversation” and type in your information.

This will assist in our attendance documentation.





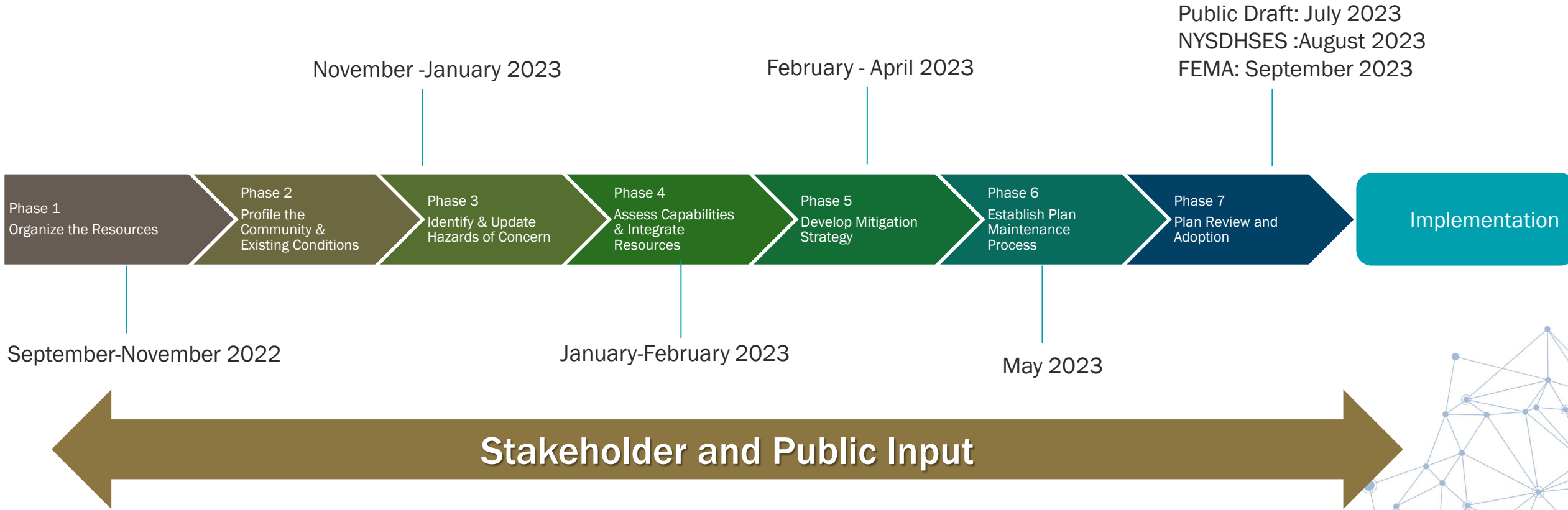
Agenda

- Welcome
- Committee Responsibilities
- Schedule
- Progress Report
- Public and Stakeholder Outreach
- Data Collection - Plans and Reports
- Confirmation of Hazards of Concern
- Goals and Objectives Updates
- SWOO (Strengths, Weaknesses, Obstacles, Opportunities)
- In-Kind Services Tracking
- Next Steps/ Questions/ Wrap Up





Where are we in the Process?



Steering Committee Roles and Responsibilities



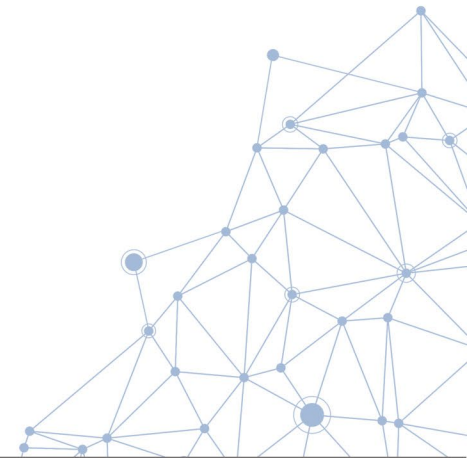
PROVIDE GUIDANCE AND LEADERSHIP THROUGHOUT THE PLANNING PROCESS



OVERSEE THE PLANNING PROCESS



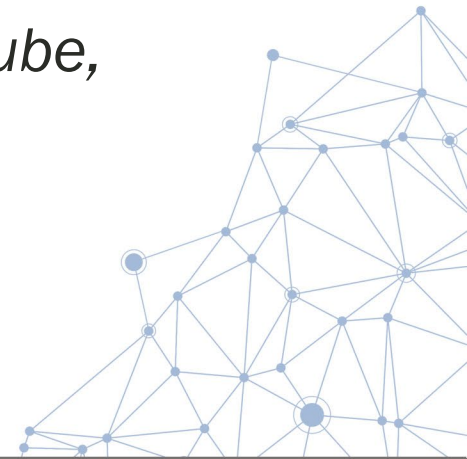
ACT AS THE POINT OF CONTACT FOR ALL PARTNERS AND STAKEHOLDERS





Early Progress

- Requested NFIP Data
- GIS Data Collection -*complete*
- Reviewed of Hazards of Concern Committee Input
- Created HMP website
- Created HMP Fact Sheet, Citizen Survey, Agency Surveys
- County-Level/Regional Plan Collection
- Planning Partnership Participation – *3 not participating: Towns of Danube, Fairfield, and Webb*
- Identified Critical Facilities
- Input/Homework received from 14 communities; 11 pending





Public and Stakeholder Outreach

- Developed a website just for the HMP - <https://www.herkimercountynyhmp.com/>
- Social Media
- Stakeholder Survey –
- Public Survey –
- Neighboring County Outreach –
 - Notified of planning process
 - Survey





Additional Plans Reviewed

The Herkimer County Community Development Strategic Plan
Herkimer County Agriculture and Farmland Protection Plan
Herkimer County NY Rising Countywide Resiliency Plan
Long Range Transportation Plan Update 2015-2035
Herkimer-Oneida Counties Transportation Council Transportation Improvement Program
Unified Planning Work Program (UPWP)
Fulmer Creek Basin Multi-Community Flood Hazard Mitigation Plan
Mohawk River Watershed Management Plan

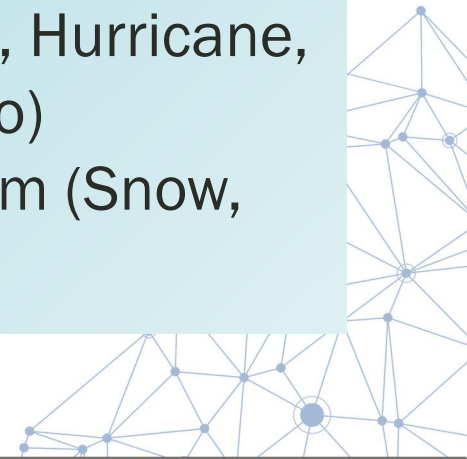




EXERCISE – Identifying Hazards of Concern

- The 2017 plan included Vulnerability Assessments for the hazards indicated as Medium or High Risk:
 - Flood: Ice jam
 - Flood: High Groundwater and Local Drainage
 - Severe Weather: High Wind
 - Severe Weather: Thunderstorm/Heavy Rainfall
 - Severe Weather: Winter Weather

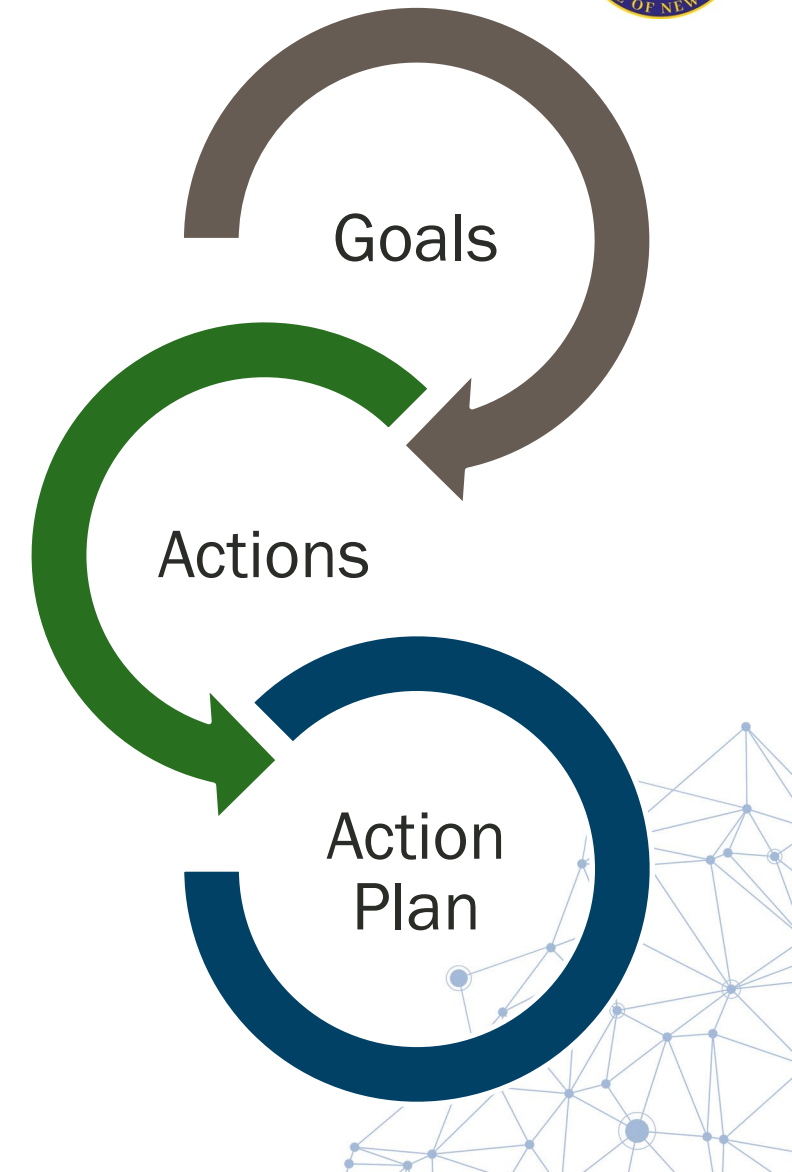
- 2023 Hazards
with potential significant impact**
- Disease Outbreak/Pandemic
 - Dam Failure
 - Drought
 - Extreme Temperature
 - Flood
 - Invasive Species
 - Severe Storm (Hail, Hurricane, Lightning, Tornado)
 - Severe Winter Storm (Snow, Ice)
 - Wildfire





Mitigation Strategy

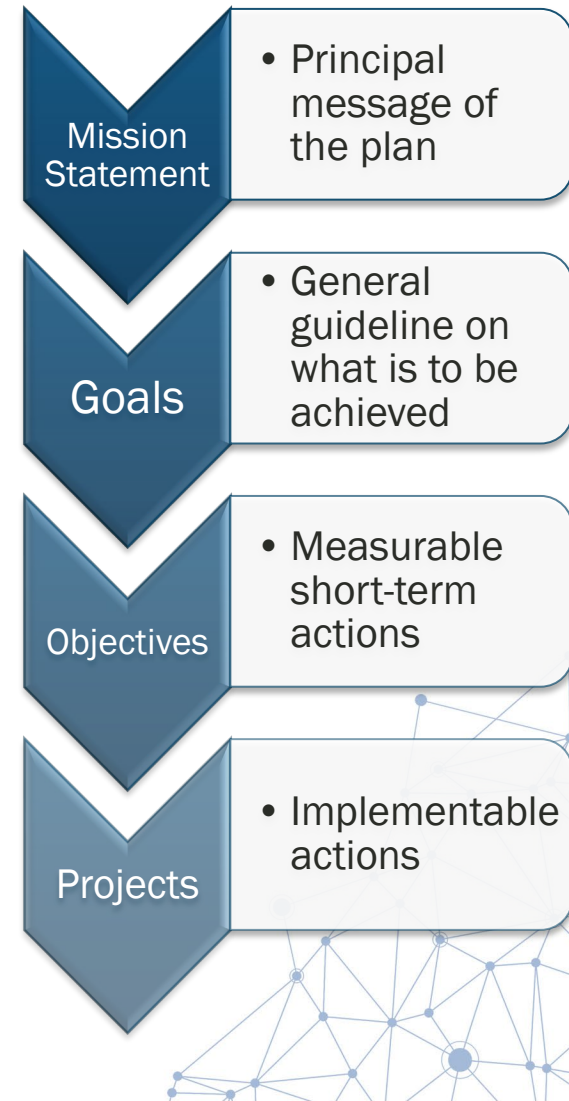
- Goals
 - What outcomes do you want to achieve?
- Actions
 - What specific actions will be taken to reduce risk from hazards?
- Action Plan
 - How will the actions be prioritized and implemented?





Approved Mission Statement

The mission of the Herkimer County Hazard Mitigation Plan is to protect and enhance the health, safety, property, and rich history of the communities within Herkimer County and to increase economic prosperity and resilience by partnering and planning to identify and reduce future vulnerability to natural and other emerging hazards in an efficient manner.





Approved Updated Goals and Objectives

Goal 1: Protect Life and Property

Objective 1.1: Implement mitigation activities that will assist in protecting lives and property by making homes, businesses, infrastructure, and critical facilities *and lifelines* more *resilient* to hazards.

Objective 1.2: Encourage homeowners and businesses to take preventative actions in areas that are especially vulnerable to hazards, including purchase of insurance for damages caused by natural hazards.

Objective 1.3: Review existing local ordinances, building codes, safety inspection procedures, and applicable rules to help ensure that they employ the most recent and generally accepted standards for the protection of buildings.

Objective 1.4: Support the enforcement of local, state, and federal building codes to increase resilience of public and private facilities and promote mitigation actions that emphasize sustainable construction and design measures to help reduce or eliminate impacts of natural hazards both present and future.

Objective 1.5: Provide continuity of and access to essential services to the population in the event that individuals are isolated due to a hazard event.

Objective 1.6: Encourage the establishment of policies or plans at the *county and* local level to prioritize the implementation of mitigation strategies and/or projects to benefit essential facilities, services, and infrastructure *with awareness and consideration of benefits to vulnerable populations.*

Objective 1.7: Address long-term vulnerabilities from High Hazard Dams and other protective infrastructure.



Approved Updated Goals and Objectives

Goal 2: Increase Public Awareness

Objective 2.1: Develop and implement additional education and outreach programs to increase public awareness of the risks associated with hazards and to educate the public on specific, individual preparedness activities.

Objective 2.2: Provide information on tools, partnership opportunities, funding, resources, and current government initiatives to assist in implementing mitigation activities *with awareness and consideration of benefits to vulnerable populations*.

Objective 2.2: Support the enhancement of technological capabilities to improve inter-agency and jurisdictional communication prior to and post hazard events.

Goal 3: Encourage Partnerships

Objective 3.1: Strengthen inter-jurisdiction and inter-agency communication, coordination, and partnerships to foster hazard mitigation strategies and/or projects designed to benefit multiple jurisdictions.

Objective 3.2: Identify and implement ways to engage public agencies with individual citizens, non-profit organizations, business, and industry to implement mitigation activities more effectively.

Objective 3.3: Integrate the recommendations of this plan into existing local and county programs and recommendations of federal, state, and county programs into local plans and daily municipal operations.



Approved Updated Goals and Objectives

Goal 4: Promote sustainable mitigation actions that preserve or restore the functions of natural systems

Objective 4.1: Incorporate hazard considerations into land-use planning and natural resource management *and daily municipal operations*.

Objective 4.2: Implement mitigation activities that encourage environmental stewardship and protection of the environment.

Objective 4.3: Build upon past efforts to characterize flood events by conducting additional flood studies and creating flood models.

Goal 5: Address Long-Term Vulnerabilities from High Hazard Dams

Objective 5.1: Ensure dam and other protective infrastructure is maintained.

Objective 5.2: Ensure Emergency Action Plans are developed and updated.

Objective 5.3: Support the identification and access to funding to repair/replace dams and other protective infrastructure.

Objective 5.4: Communicate with owners and operators of dams and other protective infrastructure to address local concerns.



Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

- The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives of the plan update. It is also used to develop potential mitigation actions for the participating jurisdictions.
- Strengths – what we do well
- Weaknesses – what could we do better
- Obstacles – things that stand in the way, and either prevents you from doing something or something that need to be overcome
- Opportunities – used to develop mitigation strategies

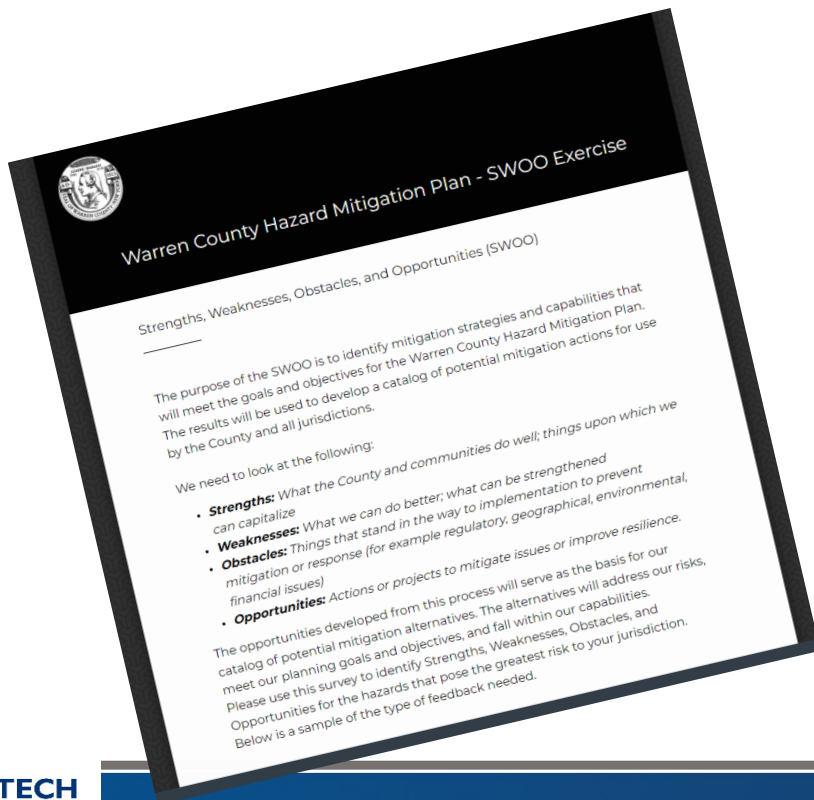


SWOO EXERCISE

Strengths, Weaknesses, Obstacles and Opportunities

Thinking about hazards of concern and any new hazards for this update...what are some strengths, weaknesses, obstacles and opportunities the County has for each? Complete the form.

Here are some examples to help brainstorm:



Hazard: Flood	
S	Minimal exposure to flood risk
W	Silt and debris buildup in streams can lead to localized flooding
Ob	Funding for culvert and catch basin maintenance
Opps	Installing stream gages

Hazard: Severe Storms	
S	Tree trimming programs are in place
W	Aging infrastructure; lack of underground utilities
Ob	Cost to retrofit existing utility infrastructure
Opps	Underground utilities; enhance public outreach program

Hazard: Severe Winter Storm	
S	Municipalities have the resources and experience to deal with winter weather
W	Aging equipment
Ob	Funding; limited staff for prolonged events
Opps	Shared services





SWOO Discussion/Example

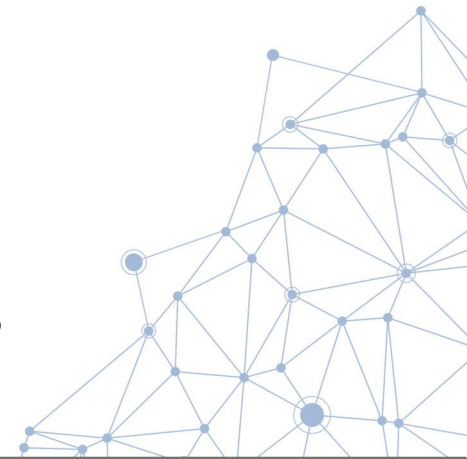
Flood	
Strengths	Weaknesses
<p>What do the County/Communities do well in terms of:</p> <ul style="list-style-type: none">➤ Plans and Regulations<ul style="list-style-type: none">➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans➤ Structure and Infrastructure Projects➤ Natural Systems Protection➤ Education and Awareness Programs?➤ Preparedness➤ Others?	<p>What can the County/Communities do better or what are identified gaps in terms of:</p> <ul style="list-style-type: none">➤ Plans and Regulations<ul style="list-style-type: none">➤ Codes, Ordinances, Planning Studies, Comprehensive Plans, Adaptation and Resiliency Plans➤ Structure and Infrastructure Projects➤ Natural Systems Protection➤ Education and Awareness Programs?➤ Preparedness➤ Others?





Schedule

- Steering Committee #2-1 to finalize hazards of concern and goals– TODAY!
- Update Risk Assessment
 - Vulnerability assessment - *in progress*
 - Risk Assessment Meetings: *Steering Committee February 21st ; Planning Partnership February 27th*
- Public Involvement Strategy – *ongoing throughout the planning process*
- Mitigation Strategy
 - Continue work with the municipalities
 - Mitigation Strategy Workshop with FEMA and NYSDHSES – **March 27, 2023**
- Draft Plan to Steering Committee in **May-June 2023** (*as sections are ready*)
- Public Review Period (30 days) – **July 2023**
- Final draft plan to NYSDHSES by August 2023 and FEMA by **September 2023**

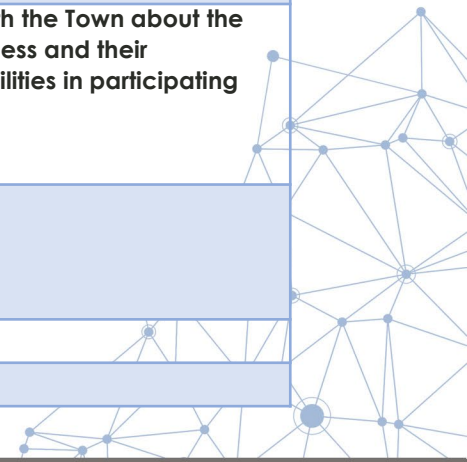




In-Kind Services

Name of Team Member: _____

Correspondence Type	Meeting Name, Municipality	Date	Start Time	End Time	# of Hours	Agenda/Sign In?	Notes (include meeting topic, how HMP was discussed, etc.)
Meeting	Chiefs and Fire Advisory Board Meeting	2/26/2020				Yes – sign-in	Discussed the HMP update
Meeting	Town of ?? Board Meeting	3/9/2020	7:00 pm	9:00 pm	2		Discussed the HMP update
Phone Call	Town of ?? phone call	3/10/2020			1	No	Spoke with the Town about the HMP process and their responsibilities in participating
Meeting	Town of ?? Board Meeting	3/12/2020	6:30 pm			Yes - agenda	



Questions?



Herkimer County Emergency Services Project Contacts

John J. Raymond, Director
jraymond@herkimercounty.org

Robert Vandawalker, Emergency Management
Coordinator
rvandawalker@herkimercounty.org

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, Project Manager
(973) 630-8044 | cynthia.bianco@tetrattech.com

Heather Apgar, CFM, Lead Planner
(973) 630-8046 | heather.apgar@tetrattech.com



**Thank
You!**



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee #4 – AGENDA
MEETING DATE/TIME: February 21, 2023 – 2:00 pm



In-Person/Hybrid Meeting: Herkimer County Emergency Services, 911 Center, 71 Reservoir Road, Herkimer, NY 13350

Remote – MS Teams Link [Click here to join the meeting](#) (preferred for screen sharing)

Remote – Dial-in by phone (audio only) - [+1 518-300-1367,,359697964#](tel:+15183001367359697964) , Albany ; Phone Conference ID: 59 697 964#

- **Welcome**
- **Progress Report**
- **In-Kind Services Tracking**
- **Public and Stakeholder Outreach**
- **Risk Assessment Overview**
- **Next Steps/ Questions/ Wrap Up**



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Purpose of Meeting:	Steering Committee Meeting
Location of Meeting:	Hybrid In-person and Teleconference Teams Meeting
Date of Meeting:	February 21, 2023, 2:00 pm – 3:17 pm

Attendees:

John Raymond	Director, Herkimer County Emergency Services
Rodney Denslow*	Tractor Supply
Gerald Pedersen*	NYS DHSES Emergency Management
Joseph Tomanio*	Newport Telephone
Stephanie Tyoe	Herkimer County Highway Dept.
James (Jim) Wallace	Herkimer County
Rick Reichert*	Herkimer-Oneida Planning Agency
Vincent (Jim) Bono*	Chairman, Herkimer County Legislature
Scott Scherer	Sheriff, Herkimer County
Stephanie Toye*	Deputy Superintendent, Herkimer County Highway Dept.
James (Jim) Wallace*	County Administrator, Herkimer County
Betsy Parmerter	NYSDHSES
Roland Paperman	NYSDHSES
Jim Wilkinson	NYSDHSES
Beth O'Reilly*	Planning Manager, Mitigation, NYSDHSES
Paul Hoole*	Mitigation Planning, FEMA
Cynthia Addonizio-Bianco*	Tetra Tech

*Remote participation via Teams

Agenda Summary: Purpose to provide a project status update and the preliminary county level hazards of concern relative risk rankings; to obtain input or adjustments of the rankings to incorporate local data.

Item No.	Description	Action item(s):
1	<p>Opening Remarks/Progress Report</p> <ul style="list-style-type: none"> Meeting started at 10:05 am Mr. John Raymond, Director of Emergency Services of Herkimer County welcomed participants and noted the importance of the hazard mitigation plan in its role to reduce risks to natural hazard events. Cynthia Addonizio-Bianco, Tetra Tech (Tt), provided an overview of key agenda items as well as a progress update as summarized in the attached PowerPoint presentation. The process continues to be on track for plan submittal to FEMA in August 2023. The majority of data to support the hazard mitigation plan (HMP) development has been received, with the receipt of the National Flood Insurance Program (NFIP) data pending processing by FEMA. 	



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<ul style="list-style-type: none"> The table of contents and draft sections of the plan are being posted as available on the project Teams site to enable steering committee members to access and review to enable input prior to sharing the drafts with the public. It requested the steering committee to review the documents and provide comments via 'track changes'. 	
2	<p>In-Kind Services Tracking/Outreach</p> <ul style="list-style-type: none"> It reminded committee members to document any time spent to attend HMP meetings, to provide input, or to provide information to their constituencies to ensure their efforts are included in the documentation to comply with grant requirements. The public HMP website(https://www.herkimercountynyhmp.com/) has been updated with meeting dates and meeting documentation. The public draft will be located on this site for public review. Surveys to target the public, neighboring counties, agencies, and businesses have been distributed and will be used to provide additional input to the plan to support the identification of mitigation actions. 	
3	<p>Risk Assessment Overview</p> <ul style="list-style-type: none"> It reviewed the methodology to calculate the relative risk of the county's identified hazards of concern and shared the preliminary risk rankings. The ranks of Low, Medium, and High for each hazard will serve as a guide in identifying impactful mitigation actions to reduce damages and increase resilience. After review and adjustment by the core group, the preliminary county level ranks are as follows: <ul style="list-style-type: none"> Disease Outbreak (including Covid-19, influenza, and tick-borne illnesses) - Medium Extreme Temperatures - Low Drought – Medium Flood - High Dam Failure - Medium Infestation - Low Severe Storm (Windstorm, Thunderstorm, Hail, Tornado) – High Severe Winter Storm (Heavy Snow, Blizzards, Ice Storms) - Medium Wildfire - Medium <p>The county ranks indicate the calculated regional risk rather than the highest municipal risk. The Steering Committee was tasked to review the information provided in the presentation (see attached) to provide any additional input to revisit and potentially further adjust the rankings.</p>	<p>Steering Committee to provide any additional comments or input regarding rankings or adjustments by 2/24/23 via email to Tetra Tech.</p>



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<p>Mr. Wallace requested clarification as to whether the ‘hazards materials in transit’ hazard should be included in the plan due to the recent train derailment incident in Ohio which resulted in the release of hazardous materials with potentially significant public health impacts. Tetra Tech noted that while the hazard mitigation plan can include this man-made hazard, FEMA will not consider the hazard in its review and approval of the plan which is only required to include natural hazards. Mr. Raymond noted that the county comprehensive emergency preparedness plan (CEMP) is appropriate to address this hazard, and that the CEMP is due to be updated shortly.</p> <p>Discussion included the review of the wildfire hazard ranking with committee members noting that there has not been a significant history of damages. However, it was noted that the development and land use in the county can present risk to populated areas in the wildfire urban interface. The committee concluded that the wildfire hazard should in included in the plan to reflect medium risk in the county.</p> <p>Regarding the data presented to support the risk ranking of the drought hazard, the committee noted that the number of private potable water wells seemed to be understated. Mr. Reichert recommended that the Office of Real Property data would provide information as to the number of properties relying on private wells or have access to a public sewer.</p> <p>The rankings will be presented to the Planning Partnership during the meeting on February 27th.</p>	
4	<p>Upcoming Meetings</p> <ul style="list-style-type: none"> ● Planning Partnership Risk Assessment Meeting – February 27, 2023 <i>(Optional for Steering Committee members not affiliated with a municipality.)</i> <p>Mitigation Strategy Workshop – March 27,2023 <i>(Optional for Steering Committee members not affiliated with a municipality.)</i></p>	
5	<p>Next Steps</p> <ul style="list-style-type: none"> ● Update Risk Assessment including adjustments as noted by Steering Committee ● Present to planning partners ● Populate adjusted results municipal annexes ● Planning Partnership Risk Assessment Meeting: February 23, 2023 ● Continue to engage the public ● Begin working with the municipalities to develop mitigation strategy/actions: March 2023 	



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	Mitigation Strategy Workshop with FEMA and NYSDHSES – March 27, 2023	
10	Conclusion - The meeting concluded at 11:11 am.	

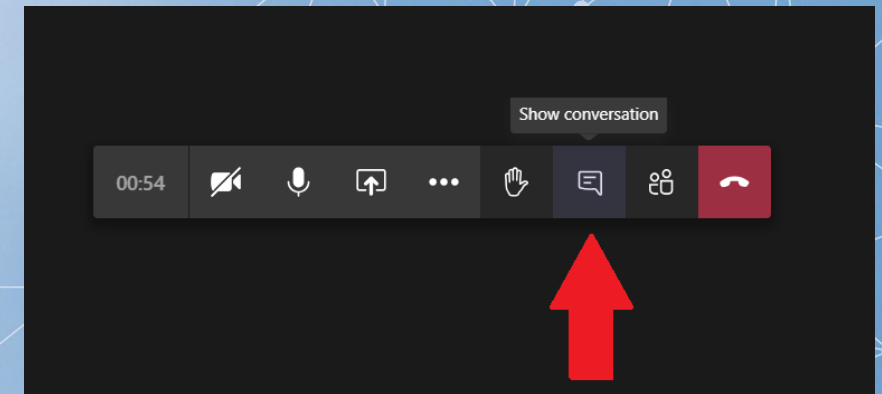
Herkimer County, New York Hazard Mitigation Plan – 2023 Update

Steering Committee #4 Meeting | February 21, 2023

WELCOME!

If you are attending the webinar on your computer, please add your name, title, and organization(s) to the chat box.

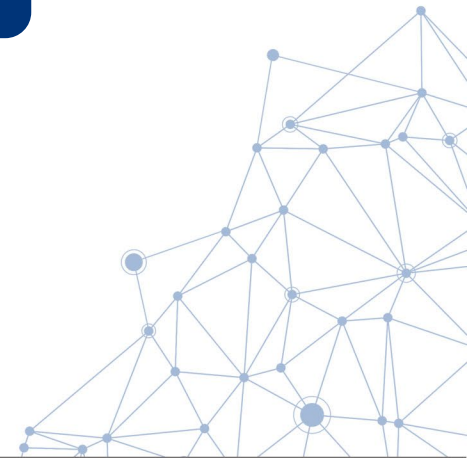
This will assist in our attendance documentation.





Agenda

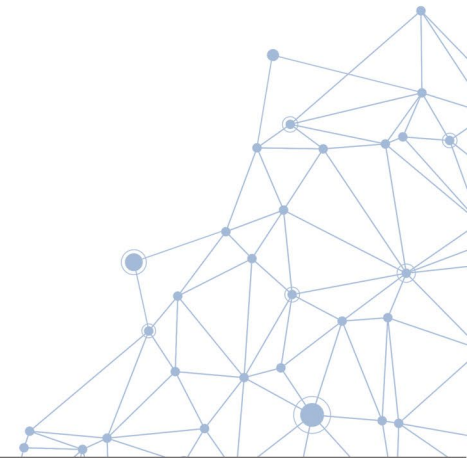
- Welcome
- Progress Report
- In-Kind Services Tracking
- Public and Stakeholder Outreach
- Risk Assessment Overview
- Next Steps/ Questions/ Wrap Up





Project Schedule Review

- | | | |
|---|----------------------------|--|
| ✓ | September 26, 2022 | Municipal Kick-Off Meeting |
| ✓ | October – December | Data Collection |
| ✓ | January 2023 – February | Update hazard profiles |
| ☐ | February 21, 2023 – TODAY! | Risk Assessment Presentation to Planning Partnership |
| ☐ | March 27, 2023 | Mitigation Strategy Workshop |
| ☐ | June 2023 | Review draft plan |
| ☐ | July/August 2023 | Submit plan to NYSDHSES and FEMA |





Progress

- Requested NFIP Data – *Data pending*
- GIS Data Collection - *Complete*
- Critical Facility Survey for Municipal Input – *Complete*
- HMP website, HMP Fact Sheet, Citizen Survey, Agency Surveys – *Pending input*
- County-Level/Regional Plan Collection – *Complete*
- Planning Partnership Participation – 48%

Communities with worksheets pending:

- Columbia (T)
- Danube (T)
- Fairfield (T)
- Frankfort (V)
- German Flatts (T)
- Herkimer (V)
- Ilion (V)
- Little Falls (T)
- Middleville (V)
- Mohawk (V)
- Ohio (T)
- Russia (T)
- Salisbury (T)
- Warren (T)
- Webb (T)
- West Winfield (V)



Document Review on Sharepoint

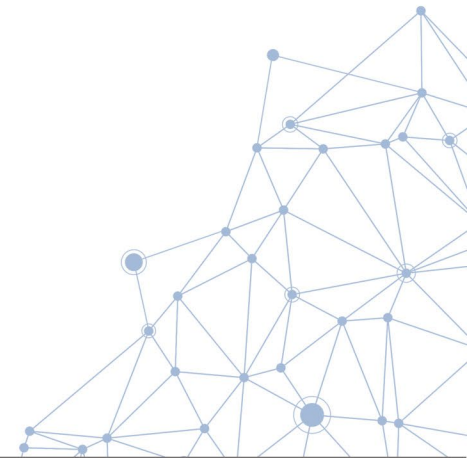
- Access for document review
- Review in “desktop app” in track changes

My files > Herkimer County HMP > Steering Committee

Name	Modified	Modified By	File size
Draft Documents for Review	January 17	Bianco, Cynthia	2 items
KO Meeting-08-09-22	August 9, 2022	Bianco, Cynthia	8 items
Risk Ranking	February 10	Bianco, Cynthia	1 item
HMP Steering Committee_FINAL.xlsx	August 9, 2022	Bianco, Cynthia	18.7 KB
Steering Committee Info.xlsx	September 20, 2022	ahutchinson@herkimer-bc	14.8 KB
Steering Committee Attendace 09-27-2022....	September 28, 2022	jraymond@herkimercount	1.38 MB
Steering Committee Attendance Record.xlsx	September 28, 2022	jraymond@herkimercount	15.3 KB
Steering Committee Email Body July 2022_r...	July 20, 2022	Bianco, Cynthia	18.2 KB
Steering Committee Kickoff meeting 08-09-...	September 28, 2022	jraymond@herkimercount	1.84 MB
Steering Committee Report and emails as o...	July 20, 2022	Bianco, Cynthia	400 KB

My files > Herkimer County HMP > Steering Committee > Draft Documents for Review

Name	Modified	Modified By	File size
5.2 - HOC ID 111623_san.docx	January 17	Bianco, Cynthia	278 KB
Table of Contents.docx	January 18	Bianco, Cynthia	213 KB

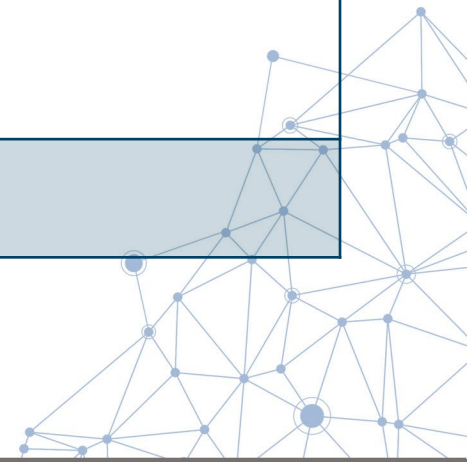




In-Kind Services Tracking

- Submit form to John Raymond at jraymond@herkimercounty.org

Name of Team Member: _____							
Correspondence Type	Meeting Name, Municipality	Date	Start Time	End Time	# of Hours	Agenda/Sign In?	Notes (include meeting topic, how HMP was discussed, etc.)
Meeting	Chiefs and Fire Advisory Board Meeting					Yes - sign-in	Discussed the HMP update
Meeting	Town of ?? Board Meeting						Discussed the HMP update
Phone Call	Town of ??phone call					No	Spoke with the Town about the HMP process and their responsibilities in participating
Meeting	Town of ?? Board Meeting					Yes - agenda	





Public and Stakeholder Outreach

- HMP website is LIVE!
<https://www.herkimercountynyhmp.com/>
- Social Media
- Public Survey
- Stakeholder Survey
- Neighboring County Outreach
 - Notified of planning process
 - Survey

Herkimer County Hazard Mitigation Plan 2023 Update

Home About What is Mitigation Meetings Calendar Explore the Plan Additional Information

Herkimer County Hazard Mitigation Plan Update

The goal of the project is to save lives and property through the reduction of hazard vulnerability for the entire county. During the course of this planning project, county and local leaders and the community will work in tandem to identify risks, assess capabilities, and formulate a strategy to reduce disaster vulnerability.

Welcome to the Herkimer County Hazard Mitigation Plan (HMP) Website. This website provides project updates, resources, and links to hazard mitigation in support of the HMP update.

Public participation and feedback is a vital part of the hazard mitigation planning process. The Herkimer County Hazard Mitigation Steering Committee has developed a Mitigation Survey to assist in providing the public an outlet to contribute to the Herkimer County HMP update. This survey will be used to develop portions of the HMP. [Click here](#) to access and complete the public survey. Thank you for participating in this important initiative by providing us with your anonymous survey contribution.

Keep checking back regularly for information on upcoming events, to take our public survey, and to review and comment on the draft plan. If you would like to get in touch with the project team, please use the following contact information:

Project Contacts:
John J. Raymond, Director
Herkimer County Emergency Services
jraymond@herkimercounty.org

Cynthia Addonizio-Bianco, Project Manager
Tetra Tech, Inc.
cynthia.bianco@tetrattech.com

HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
WE NEED YOUR HELP!

Grants & Funding Plan & Prepare Mitigate

[CLICK HERE TO TAKE THE PUBLIC SURVEY AND HELP US UPDATE THE HERKIMER COUNTY HMP](#)



What's at Risk?

- FEMA Disaster Declarations

Year of Declaration Date	Declaration Title	Disaster Number
1974	SEVERE STORMS & FLOODING	447
1976	SEVERE STORMS & FLOODING	515
1993	SEVERE BLIZZARD	3107
1996	SEVERE STORMS AND FLOODING	1095
1998	NY - SEVERE WX, SEPT 7, 1998	1244
2000	SEVERE STORMS AND FLOODING	1335
	WEST NILE VIRUS	3155
2001	FIRES AND EXPLOSIONS	1391

Year of Declaration Date	Declaration Title	Disaster Number
2003	POWER OUTAGE	3186
	SNOWSTORMS	3173
2004	SEVERE STORMS AND FLOODING	1534
2005	HURRICANE KATRINA EVACUATION	3262
2006	SEVERE STORMS AND FLOODING	1650
		1670
2011	HURRICANE IRENE	4020
	REMNANTS OF TROPICAL STORM LEE	3341
		4031

Year of Declaration Date	Declaration Title	Disaster Number
		4031
	SEVERE STORMS, FLOODING, TORNADOES, AND STRAIGHT-..	1993
2012	HURRICANE SANDY	3351
2013	SEVERE STORMS AND FLOODING	4129
2014	SEVERE STORMS AND FLOODING	4180
2017	SEVERE WINTER STORM AND SNOWSTORM	4322
2019	SEVERE STORMS, STRAIGHT-LINE WINDS, AND FLOODING	4472
2020	COVID-19	3434
	COVID-19 PANDEMIC	4480



9 Severe Storm(s)



5 Flood



3 Hurricane



3 Snow



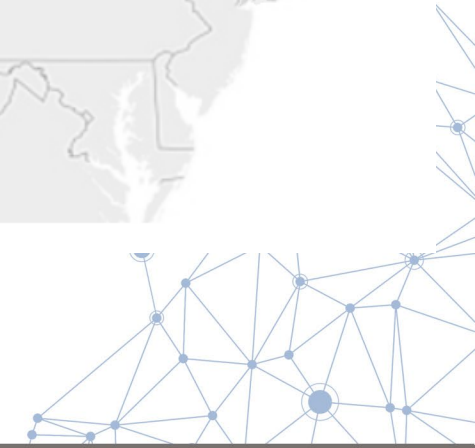
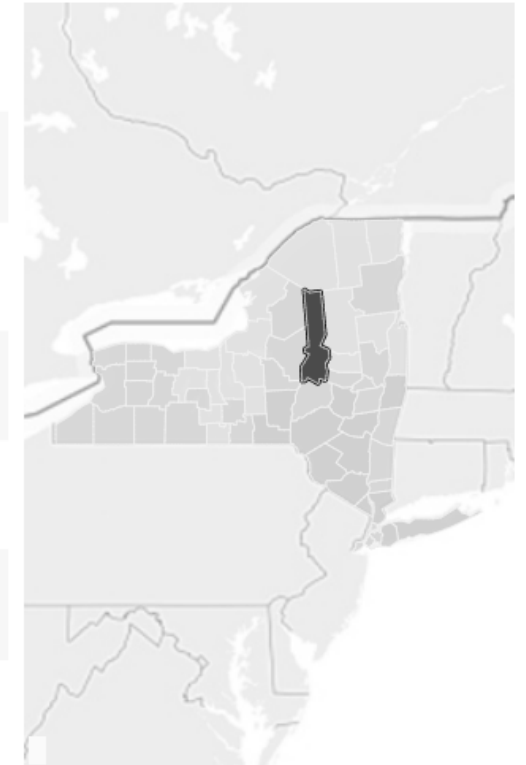
2 Biological



2 Other



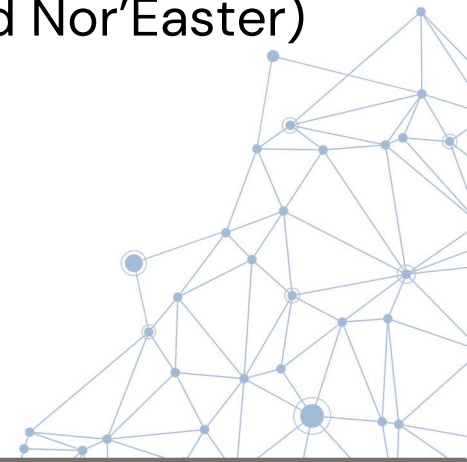
1 Fire





2023 HMP Hazards of Concern

- Dam Failure
- Disease Outbreak
- Drought
- Extreme Temperatures
- Flood
- Invasive Species
- Severe Storm (thunderstorm, hail, wind, tornado, hurricane/tropical storm, and Nor'Easter)
- Severe Winter Storm
- Wildfire



What is Risk?

Risk is a function of :

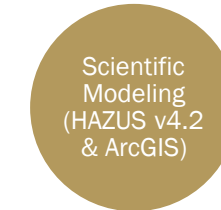
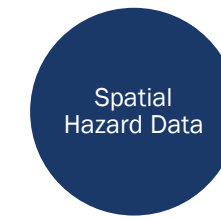
- ✓ **Hazard**
 - Source of potential danger or adverse condition
- ✓ **Exposure**
 - Manmade or natural features that are exposed to the hazard
- ✓ **Vulnerability**
 - Damage susceptibility of the exposed features
- ✓ **Adaptive Capacity (or capability)**
 - Plans/policies
 - Response/recovery
 - Financial resources
- ✓ **Climate Change**





Purpose of the Risk Assessment

- To get a better understanding of the risks you face
- Initial results based on available data
- Quantitative data (population/structures exposed, structural damages within hazard zones) used when available
- Qualitative community input (such as unmapped flood areas) integrated to adjust results
- Local community input to adjust relative rankings



Municipal Review and Verification of Risk Results



Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review

Please send all electronic Word versions of this worksheet to Cynthia Bianco (Cynthia.bianco@tetratech.com) by March 3rd, 2023

Jurisdiction: Village of Cold Brook
Name/Title of Individual Completing Worksheet: _____

What is a Hazard Ranking?

Hazard Ranking is used to understand your community's vulnerabilities to hazards and to prioritize projects and activities for mitigation.

Hazard Ranking is determined by quantitative and qualitative factors including:

1. The calculated probability of a hazard occurring based on historical data.
2. Impacts to people, property, and the economy based on GIS data and analysis of exposure.
3. The degree to which climate change will affect future occurrences based on best available data.
4. Adaptive Capacity, which is the ability your community has to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness.



What is my Hazard Ranking?

The following table represent the calculated rankings for the hazards of concern for your community. Please review the calculated rankings and indicate whether or not you want to adjust the ranking. If you are changing the ranking, please provide detail as to why you are changing the ranking. **REMEMBER, for every hazard of concern, you need at least one mitigation action.**

Continued on next page.



Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review

Table 1. 2023 HMP Municipal Hazard Rankings

Hazard	Draft 2023 Preliminary Ranking	Agree with preliminary ranking (Y/N)? If No, indicate preferred ranking.	What local information or conditions have resulted in the adjustment in hazard ranking?
Extreme Temperature	Low		
Drought	Medium		
Flood	Medium		
Severe Storm	High		
Severe Winter Storm	Medium		
Wildfire	Low		
Infestation	Low		
Dam Failure	Low		
Disease Outbreak	Medium		

What is Adaptive Capacity?

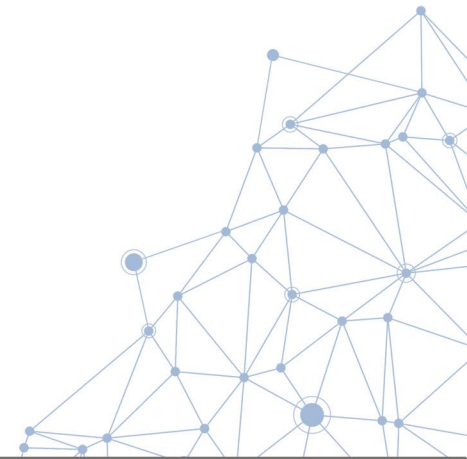
Adaptive capacity describes a jurisdiction's current ability to protect from or withstand a hazard event.

- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.

Table 2. 2023 HMP Municipal Adaptive Capacity


Hazard	Preliminary Ranking	What should we indicate for your community's adaptive capacity for each hazard?
Extreme Temperature	Medium	
Drought	Medium	
Flood	High	
Severe Storm	High	
Severe Winter Storm	Medium	
Wildfire	High	
Infestation	Low	
Dam Failure	Medium	
Disease Outbreak	Medium	

Note: *Adaptive capacity was assumed Moderate for all hazards.






Municipal Review and Verification of Risk Results, continued



Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review



Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review

Problem Statement Development
Utilizing the results gathered to date (i.e., risk assessment, capability assessment, identified problem areas, 2017 mitigation strategy), please review the identified problems and potential solutions and add anything that may be missing to inform your mitigation strategy development.

Risk Assessment
What is your hazard concern of greatest concern? Refer to your hazard ranking results on page 1 (ex: stormwater flooding, falling trees, power loss, etc.). Do you have any projects in mind to address that hazard?

Problem / High-Ranked Hazards	Solution

Critical Facilities - Backup Power
Please list critical facilities that require backup power. If you have specifics (size of the generator, potential cost, etc.), please provide that information as well.

Problem	Solution

Culverts - Undersized/In Need of Upgrade
Please indicate the location of any culverts or stormwater components in your community that are undersized or are damaged from past flood events. Then note if you would like to add a project to address any of these locations.

Problem	Solution

Flood Protection – Elevation or Buyout
Please identify any **repetitive loss areas**, homes, or neighborhoods that would benefit from elevation or buyout to prevent future flood damages. Then identify potential projects to provide flood protection (elevation, buyout, etc.)

Problem	Solution

Infrastructure Protection
Please identify roads and other infrastructure that needs protection from flooding, storms, etc. Provide any projects where you would like to include protection measures (elevate roadway, harden infrastructure, etc.)

Problem	Solution


Outreach Projects
Please identify gaps in public awareness regarding hazards and identify any outreach projects that you would like to include in your mitigation strategy.

Problem	Solution


Other Projects
Please identify other projects that you have in mind after reviewing your problem statements, past actions, risk assessment results, and the mitigation catalog.

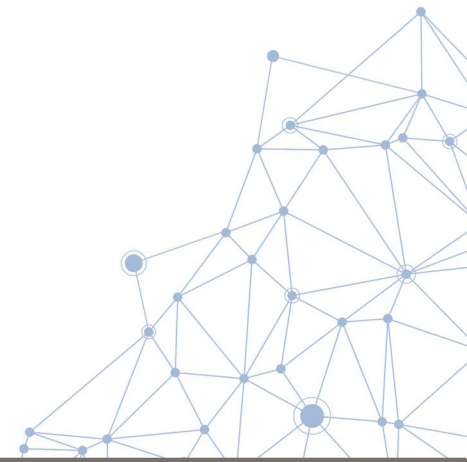
Problem	Solution

Herkimer County, NY Hazard Mitigation Action Plan | 2023 Update
Page 3 of 5




Herkimer County, NY Hazard Mitigation Action Plan | 2023 Update
Page 4 of 5





Municipal Review and Verification of Risk Results, continued





Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review

Flood Protection – Elevation or Buyout
Please identify any **repetitive loss areas**, homes, or neighborhoods that would benefit from elevation or buyout to prevent future flood damages. Then identify potential projects to provide flood protection (elevation, buyout, etc.)

Problem	Solution

Infrastructure Protection
Please identify roads and other infrastructure that needs protection from flooding, storms, etc. Provide any projects where you would like to include protection measures (elevate roadway, harden infrastructure, etc.)

Problem	Solution


Outreach Projects
Please identify gaps in public awareness regarding hazards and identify any outreach projects that you would like to include in your mitigation strategy.

Problem	Solution

Other Projects
Please identify other projects that you have in mind after reviewing your problem statements, past actions, risk assessment results, and the mitigation catalog.

Problem	Solution

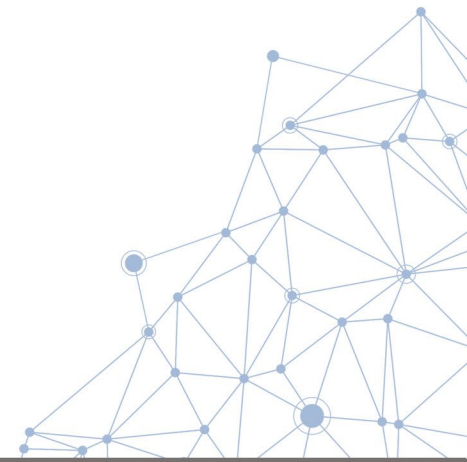
Herkimer County, NY Hazard Mitigation Action Plan | 2023 Update
Page 4 of 5





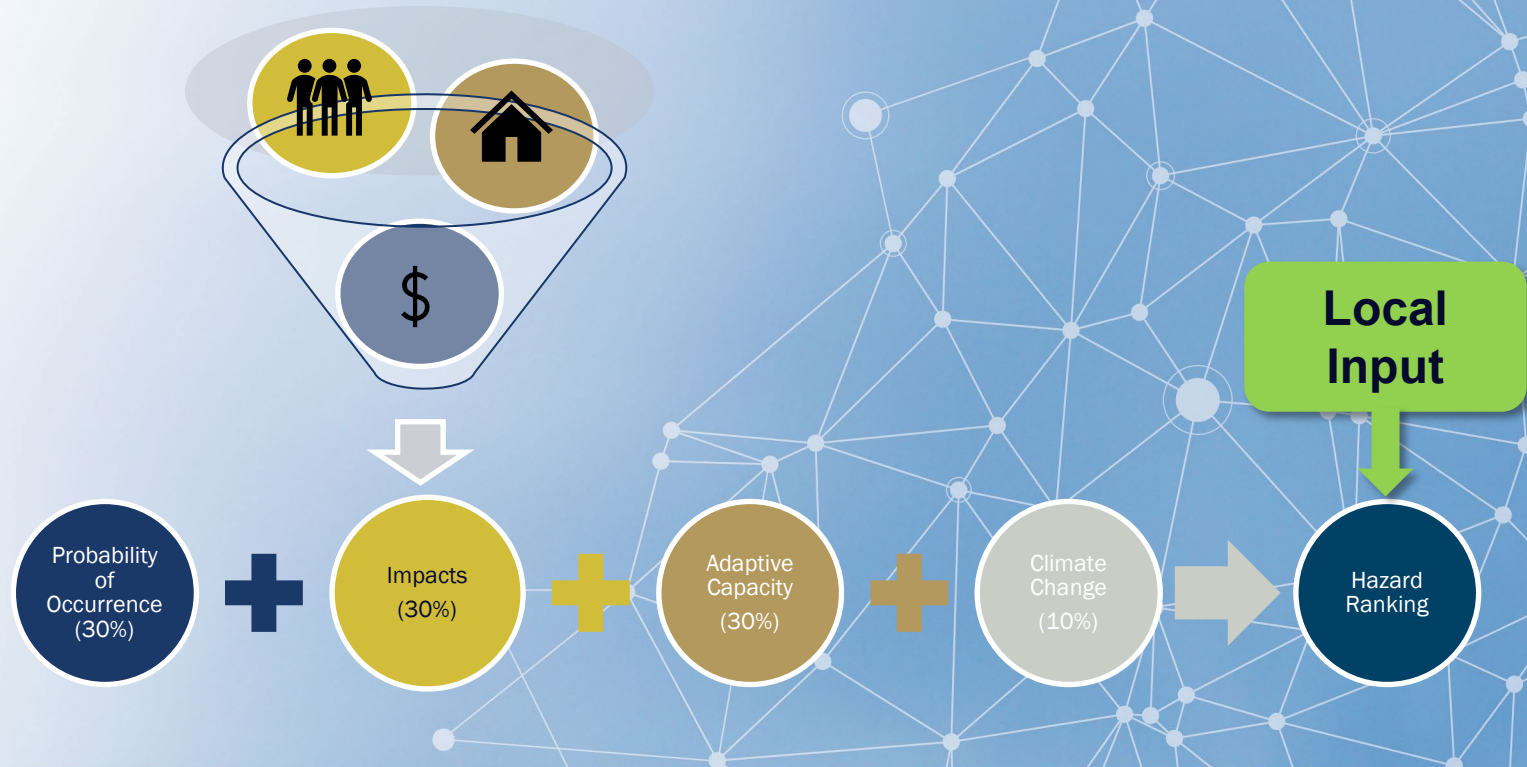
Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review

Herkimer County, NY Hazard Mitigation Action Plan | 2023 Update
Page 5 of 5

Ranking the Hazards of Concern

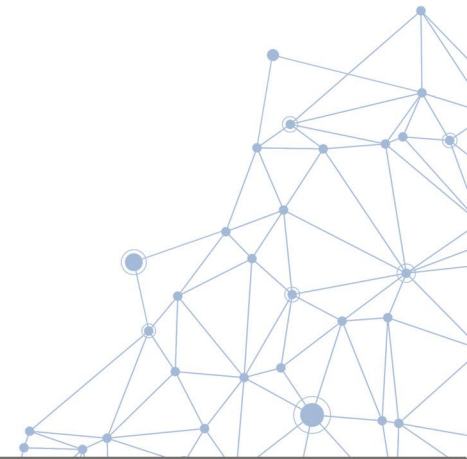
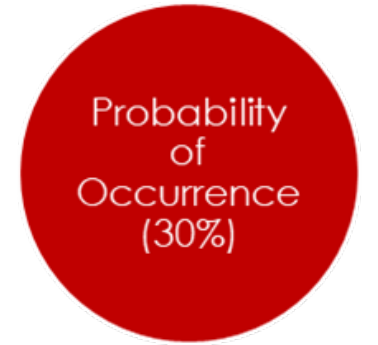
What information plays a role in determining the risk rankings?





Probability Of Occurrence

- **Unlikely**
 - Not likely to occur or less than 1% annual chance of occurring
- **Rare**
 - Between 1 and 10% annual chance of occurring
- **Occasional**
 - Between 10 and 100% annual chance of occurring
- **Frequent**
 - 100% chance occurring; occurs multiple times a year





Hazard Ranking Input

Impact on Population – Function of population exposed

- ✓ Low – 14% or less population exposed
- ✓ Medium – 15%-29% population exposed
- ✓ High – 30%+ population exposed

Impact on property – Function of structures exposed

- ✓ Low – 14% or less structures exposed
- ✓ Medium – 15%-29% structures exposed
- ✓ High – 30%+ structures exposed

Impact on economy – Function of damages to building stock

- ✓ Low – 9% or less loss estimate of total replacement cost
- ✓ Medium – 10%-19% loss estimate of total replacement cost
- ✓ High – 19%+ loss estimate of total replacement cost

Capability – Function of level of planning, policies, enforcement

- ✓ Weak – outdated policies; limited to no deployable resources; limited capabilities to respond; long recovery
- ✓ Moderate – minimum requirements; mitigation strategies identified but not implemented; moderate county capabilities
- ✓ Strong – exceed requirements; mitigation/protective measures in place; county/jurisdiction has ability to recover quickly because resources are readily available, and capabilities are high

Climate Change – Function of climate predictions

- ✓ Low - No local data is available; modeling projects are uncertain on whether there is increased future risk; confidence level is low (inconclusive evidence)
- ✓ Medium - Studies and modeling projections indicate a potential for exacerbated conditions due to climate change
- ✓ High - Studies and modeling projections indicate exacerbated conditions/increased future risk due to climate change





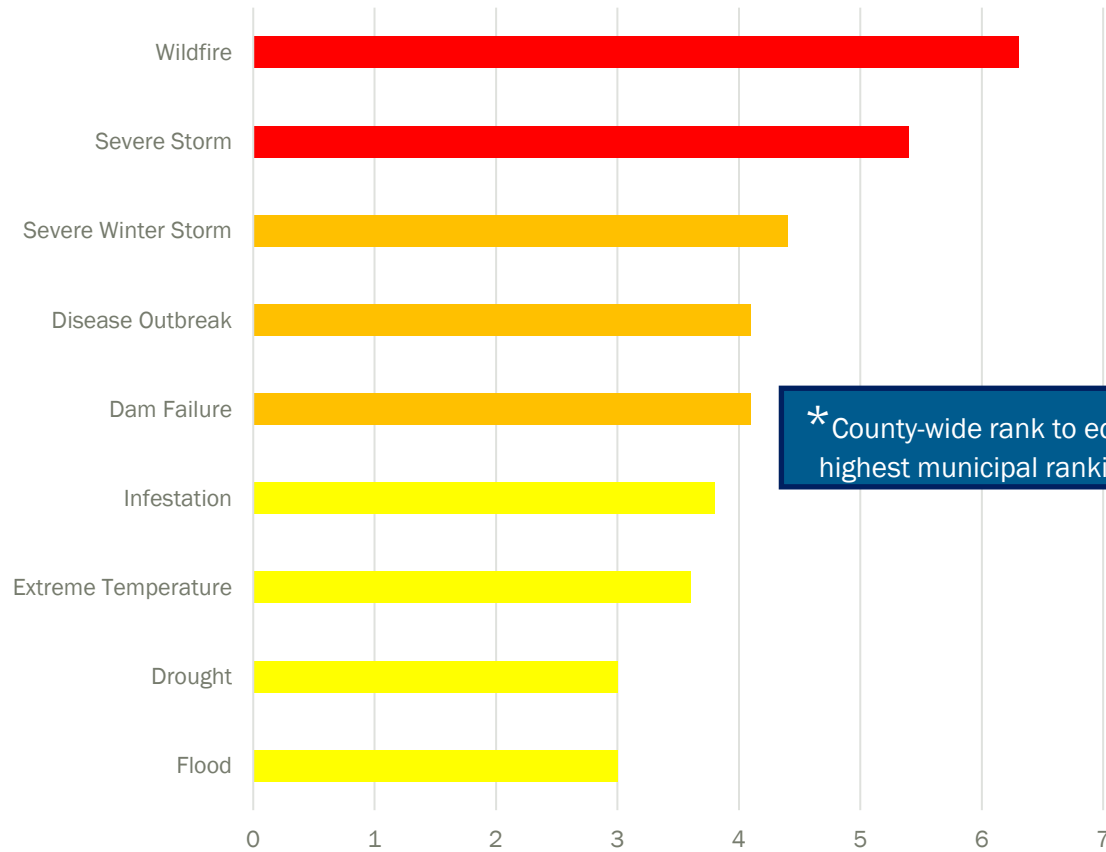
Countywide Risk Ranking

Hazard of Concern	2021 CEPA Ranking	2023 Adjusted Risk Ranking	2017 Risk Ranking
Drought	Medium	Low → Medium	Low
Extreme Temperature	Medium	Low → Medium	Medium/Low
Flood	High	Low → High	Medium/High
Dam Failure	Medium	Medium	Medium
Severe Storm	High	Medium	Medium
Severe Winter Storm	Medium	High	Medium/High
Wildfire	Medium	High	Low
Invasive Species	n/a	Low	n/a
Disease Outbreak/Pandemic	Medium	Medium	n/a



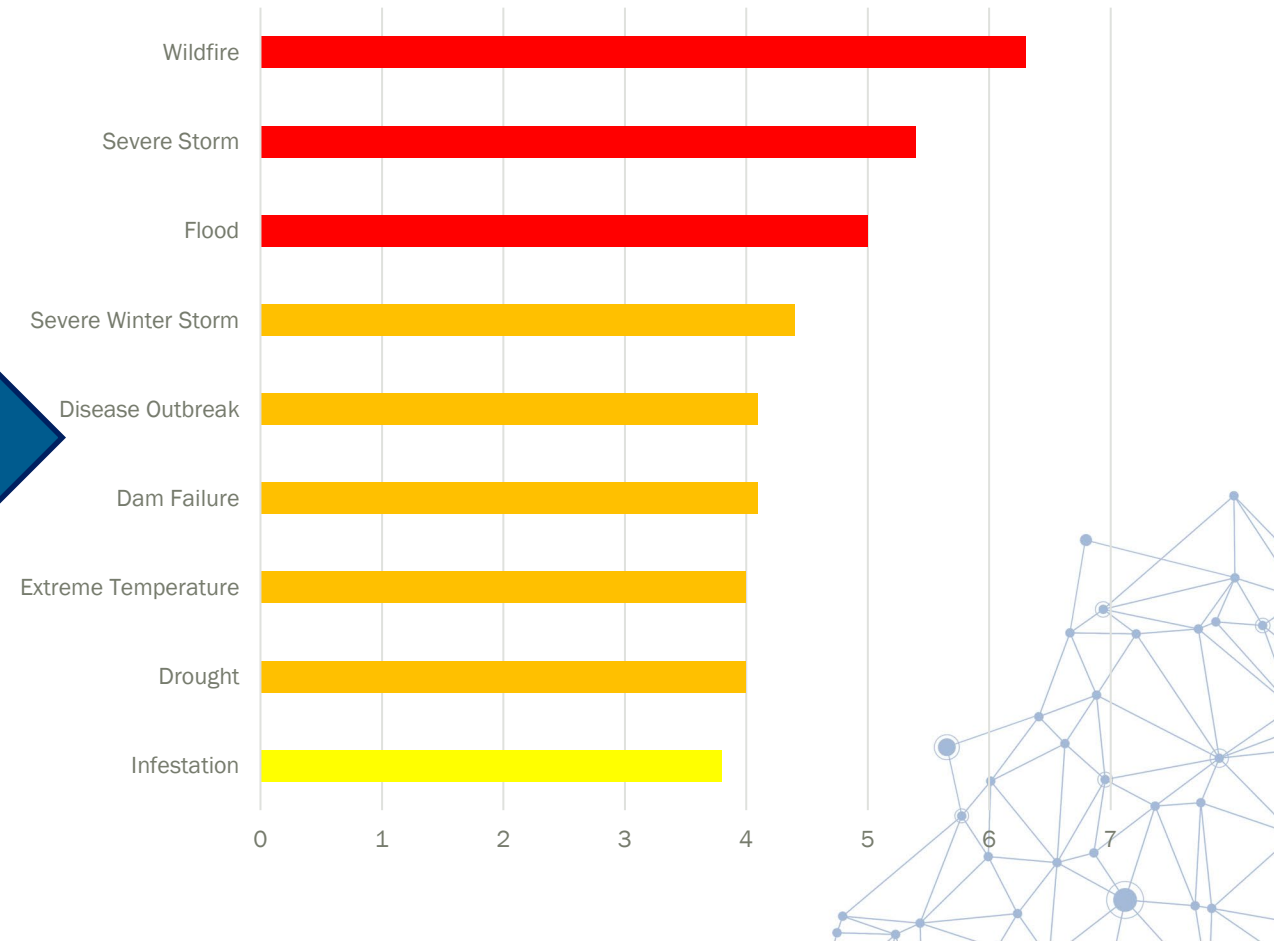
Countywide Risk Ranking

Preliminary Hazard Ranking Herkimer County, New York



* County-wide rank to equal highest municipal ranking

Adjusted Hazard Ranking Herkimer County, New York



Municipal Level Risk Ranking (Preliminary Adjusted)



Hazard Ranking									
Municipality	Extreme Temperature	Drought	Flood	Severe Storm	Severe Winter Storm	Wildfire	Infestation	Dam Failure	Disease Outbreak
Cold Brook (V)	Low	Medium	Medium	High	Medium	Low	Low	Low	Medium
Columbia (T)	Low	Low	Low	High	Medium	Low	Low	Low	Medium
Danube (T)	Low	Low	Medium	High	Medium	Low	Low	Low	Medium
Dolgeville (V)	Medium	Low	High	High	Medium	Low	Low	Low	High
Fairfield (T)	Low	Low	Medium	High	Medium	Medium	Low	Low	Medium
Frankfort (T)	Medium	Low	High	High	Medium	High	Low	Medium	High
Frankfort (V)	Low	Low	High	High	Medium	Low	Low	Low	Medium
German Flatts (T)	Low	Low	Low	High	Medium	High	Low	Medium	Medium
Herkimer (T)	Low	Low	High	High	Medium	High	Low	Low	Low
Herkimer (V)	Low	Low	High	High	Medium	Low	Low	Medium	Medium
Ilion (V)	Low	Low	High	High	Medium	Low	Low	Low	Medium
Litchfield (T)	Low	Low	Low	High	Medium	Low	Low	Low	Medium
Little Falls (C)	Low	Low	High	High	Medium	Low	Low	Medium	Medium
Little Falls (T)	Low	Low	Low	High	Medium	Medium	Low	Low	Medium
Manheim (T)	Low	Low	Low	High	Medium	High	Low	Medium	Medium

Municipal Level Risk Ranking (Preliminary Adjusted)



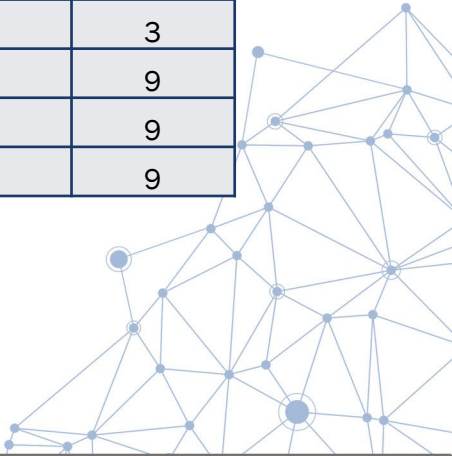
Hazard Ranking									
Municipality	Extreme Temperature	Drought	Flood	Severe Storm	Severe Winter Storm	Wildfire	Infestation	Dam Failure	Disease Outbreak
Middleville (V)	Medium	Low	High	High	Medium	Low	Low	Medium	High
Mohawk (V)	Medium	Low	High	High	Medium	Low	Low	Low	High
Newport (T)	Low	Low	High	High	Medium	Medium	Low	Low	Medium
Newport (V)	Low	Low	High	High	Medium	Low	Low	Low	Low
Norway (T)	Low	Low	Low	High	Medium	High	Low	Low	Medium
Ohio (T)	Medium	Medium	High	High	Medium	Low	Low	Medium	High
Poland (V)	Low	Low	Low	High	Medium	High	Low	Low	Medium
Russia (T)	Low	Medium	Medium	High	Medium	High	Low	Medium	Medium
Salisbury (T)	Low	Low	Medium	High	Medium	High	Low	Medium	Medium
Schuyler (T)	Low	Low	Medium	High	Medium	High	Low	Low	Medium
Stark (T)	Low	Low	Medium	High	Medium	High	Low	Low	Medium
Warren (T)	Low	Low	Low	High	Medium	Medium	Low	Low	Medium
Webb (T)	Medium	Medium	Medium	High	Medium	Medium	Low	Medium	High
West Winfield (V)	Low	Low	Low	High	Medium	Low	Low	Low	Medium
Winfield (T)	Low	Low	Low	High	Medium	Low	Low	Low	Medium
Herkimer County	Medium	Medium	High	High	Medium	High	Low	Medium	Medium



Sample Risk Analysis Input (Flood)

Herkimer County Municipality	Probability		Impact on Population				
	Impact	Index	Population (2020 Decennial)	1-Percent Annual Chance Flood Event Population Exposed	Percent Population Exposed (1-Percent Annual Chance Flood Event)	Impact	Numeric Value x3
Cold Brook (V)	Frequent	3	250	27	10.9%	M	6
Columbia (T)	Frequent	3	1,569	27	1.7%	L	3
Danube (T)	Frequent	3	953	12	1.3%	M	6
Dolgeville (V)	Frequent	3	2,042	289	14.2%	H	9
Fairfield (T)	Frequent	3	1,197	4	0.3%	M	6
Frankfort (T)	Frequent	3	4,691	76	1.6%	H	9
Frankfort (V)	Frequent	3	2,320	85	3.6%	H	9
German Flatts (T)	Frequent	3	2,202	42	1.9%	L	3
Herkimer (T)	Frequent	3	2,332	43	1.8%	H	9
Herkimer (V)	Frequent	3	7,234	197	2.7%	H	9
Ilion (V)	Frequent	3	7,646	2,701	35.3%	H	9

*adjusted using local input

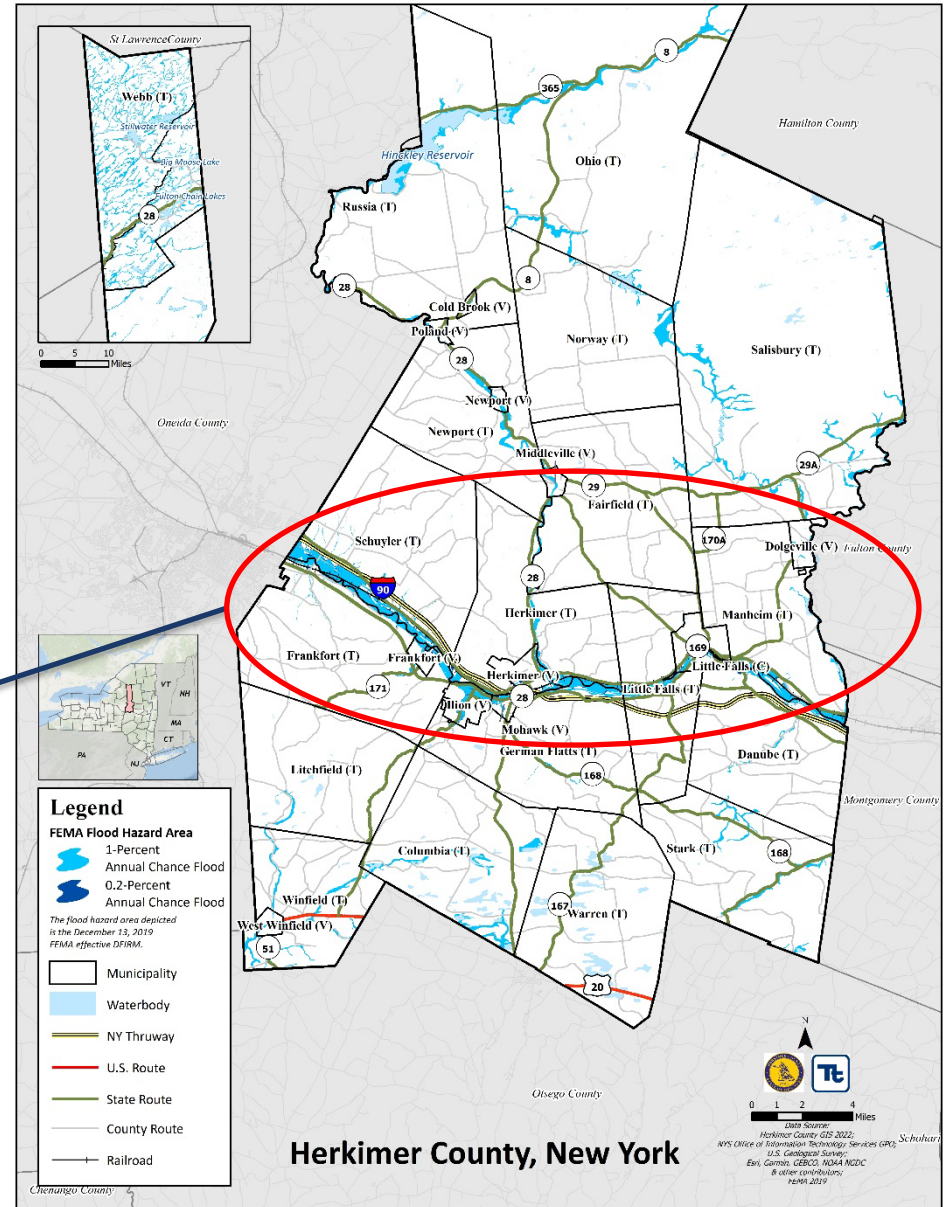
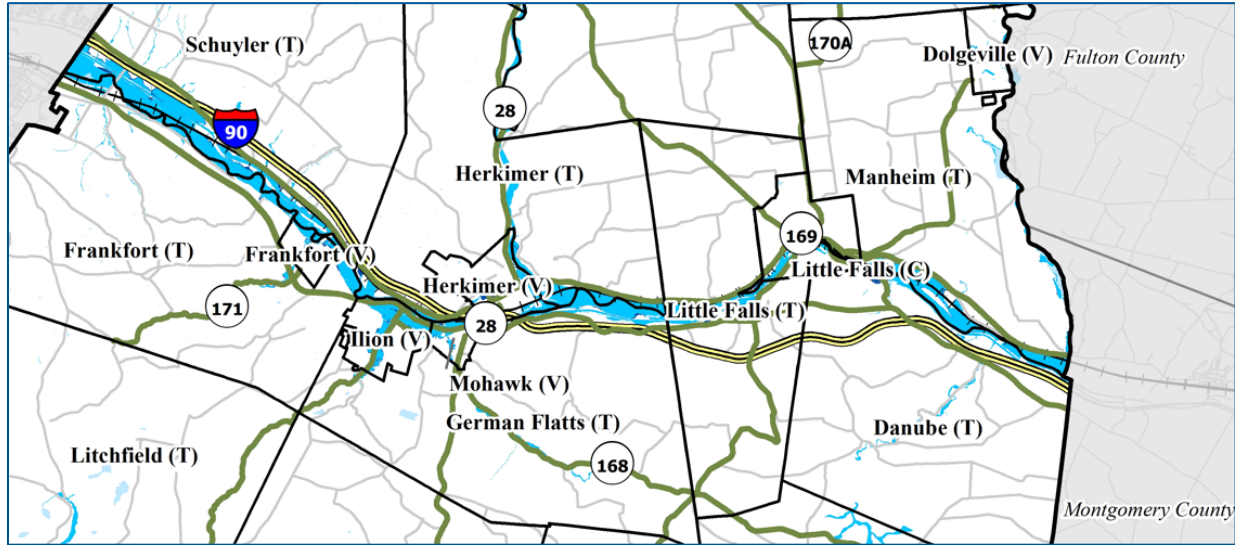


Flood

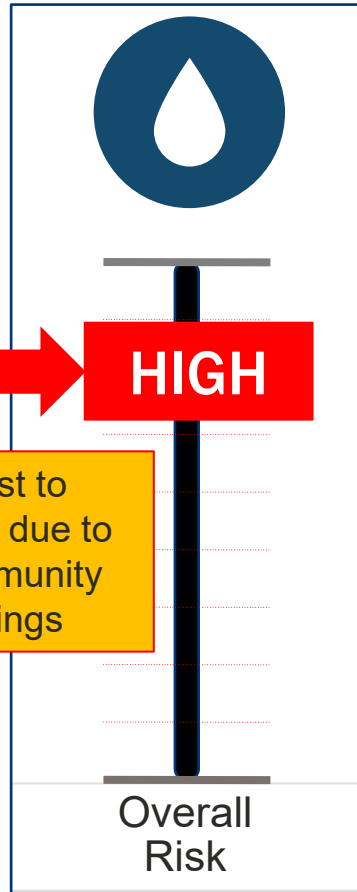
- Previous Events
 - Riverine, flash, and stormwater flooding
 - Between 2019 and 2022, Herkimer County included in 1 FEMA flood-related declarations.
 - FEMA-DR-4472 (Straight-line Winds and Flooding) – December 19, 2019
- Exposure
 - 7% of the County’s total population is in the 1% annual chance flood area
 - 6.9% of the County’s building stock is in the 1% annual chance flood area



Flood Hazard Areas



Countywide Preliminary Risk Ranking: Flood



Probability of Occurrence:

- FREQUENT



Impact on Population

- LOW
- 4,238 people (7% of the population) in the SFHA



Impact on Property

- LOW
- 2,116 buildings (6.9% of total County buildings) in the SFHA; 42 Rep Loss Properties
- 391 filed claims with payments totaling \$3.72 M



Impact on Economy

- LOW
- \$938 M Replacement Cost Value (RCV) (7.7% of County total RCV) located in the Regulatory Floodplain



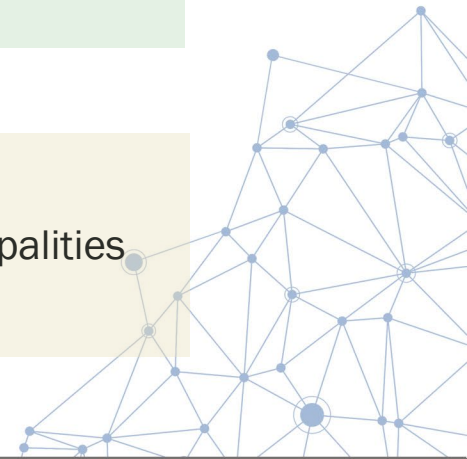
Adaptive Capacity

- MEDIUM for all municipalities



Climate Change

- HIGH for all municipalities

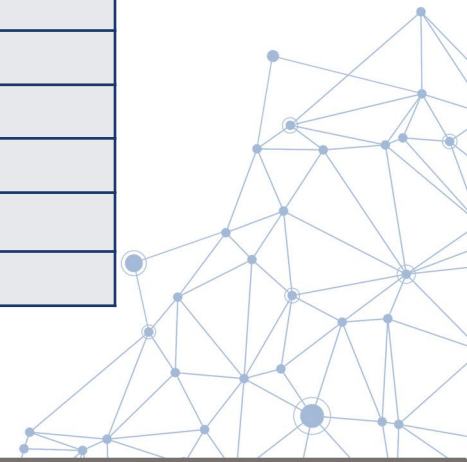




2023 vs. 2017 Rankings

Herkimer County Municipality	IMPACT ON POPULATION	IMPACT ON PROPERTY	IMPACT ON ECONOMY	RISK RANKING	RISK RANKING
	Percent Population Exposed (1-Percent Annual Chance Flood Event)	Percent of Total Buildings in 1% Flood Area	Percent of Total GBS RCV	2023 Estimated	2017
Cold Brook (V)	10.9%	11.2%	12.5%	Medium	
Columbia (T)	1.7%	2.1%	1.8%	Low	
Danube (T)	1.3%	2.7%	10.4%	Medium	
Dolgeville (V)	14.2%	14.4%	13.6%	High	
Fairfield (T)	0.3%	0.3%	0.3%	Medium	
Frankfort (T)	1.6%	1.7%	1.9%	High	
Frankfort (V)	3.6%	3.8%	4.7%	High	
German Flatts (T)	1.9%	1.9%	2.0%	Low	
Herkimer (T)	1.8%	2.0%	1.4%	High	
Herkimer (V)	2.7%	2.5%	2.6%	High	

*adjusted using local input



Dam Failure

- Previous Events

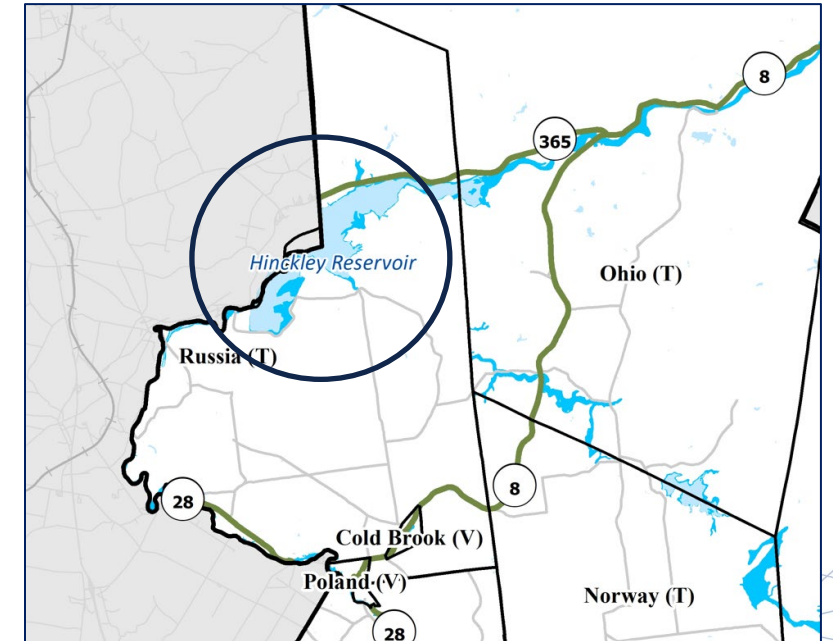
- Hazard includes failure of man-made dams
- Breach, overtop, non-breach spillway issues
- Dam inspection reports available

- Exposure

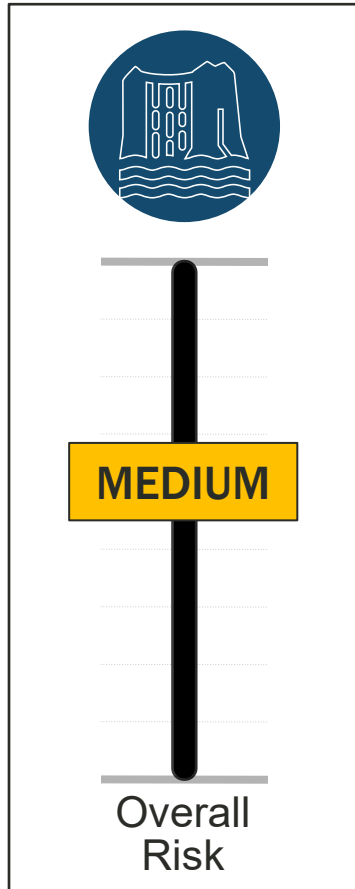
- Population and property exposed in dam inundation areas

- Potential Impacts

- Wildfire caused soil destabilization due to vegetation damage
- Water quality and debris
- Contamination of potable water
- Loss of recreational use



Countywide Risk Ranking: Dam Failure



A signpost with a circular icon at the top showing a dam and water. The signpost has a yellow rectangular sign in the middle with the word "MEDIUM" in black text. Below the signpost, the text "Overall Risk" is written.



Probability of Occurrence:

- OCCASIONAL



Impact on Population

- MEDIUM
- No digital inundation areas



Impact on Property

- MEDIUM
- 41 dams within Herkimer County; 13 high hazard dams
- No digital inundation areas



Impact on Economy

- LOW
- No digital inundation areas



Adaptive Capacity

- MEDIUM for all municipalities



Climate Change

- MEDIUM for all municipalities



Severe Storm

- Previous Events

- Hazard includes lightning, hail, and windstorms
- Between 2016 and 2022, Herkimer County was included in 1 FEMA severe storm-related declarations.
- FEMA-DR-4472 (Severe Storms, Straight-line Winds and Flooding) – October 2019
- According to the NOAA, 8 tornado events took place in Herkimer County between 1950 and 2022.

- Exposure

- All population exposed to 500-year (Tropical Storm speeds)
- Property exposed to 500-year (Tropical Storm speeds)
- All people and property exposed and vulnerable

- Potential Impacts

- Power outages
- Critical facility and infrastructure damage



<https://www.dvidshub.net/news/350357/ny-national-guard-responds-major-flooding-wind-damage-mohawk-valley>

Countywide Ranking: Severe Storm

HIGH

Overall Risk

Probability of Occurrence:

- FREQUENT

Impact on Population

- HIGH
- All population exposed and vulnerable

Impact on Property

- MEDIUM
- All buildings are exposed and vulnerable

Impact on Economy

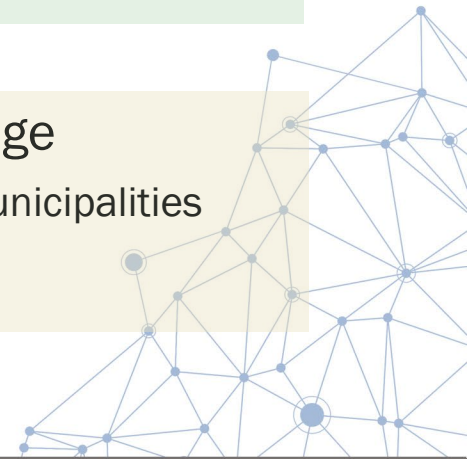
- LOW
- 552,000 Replacement Cost Value (RCV) < 0% of County total RCV exposed to 500-year MRP winds.

Adaptive Capacity

- MEDIUM for all municipalities

Climate Change

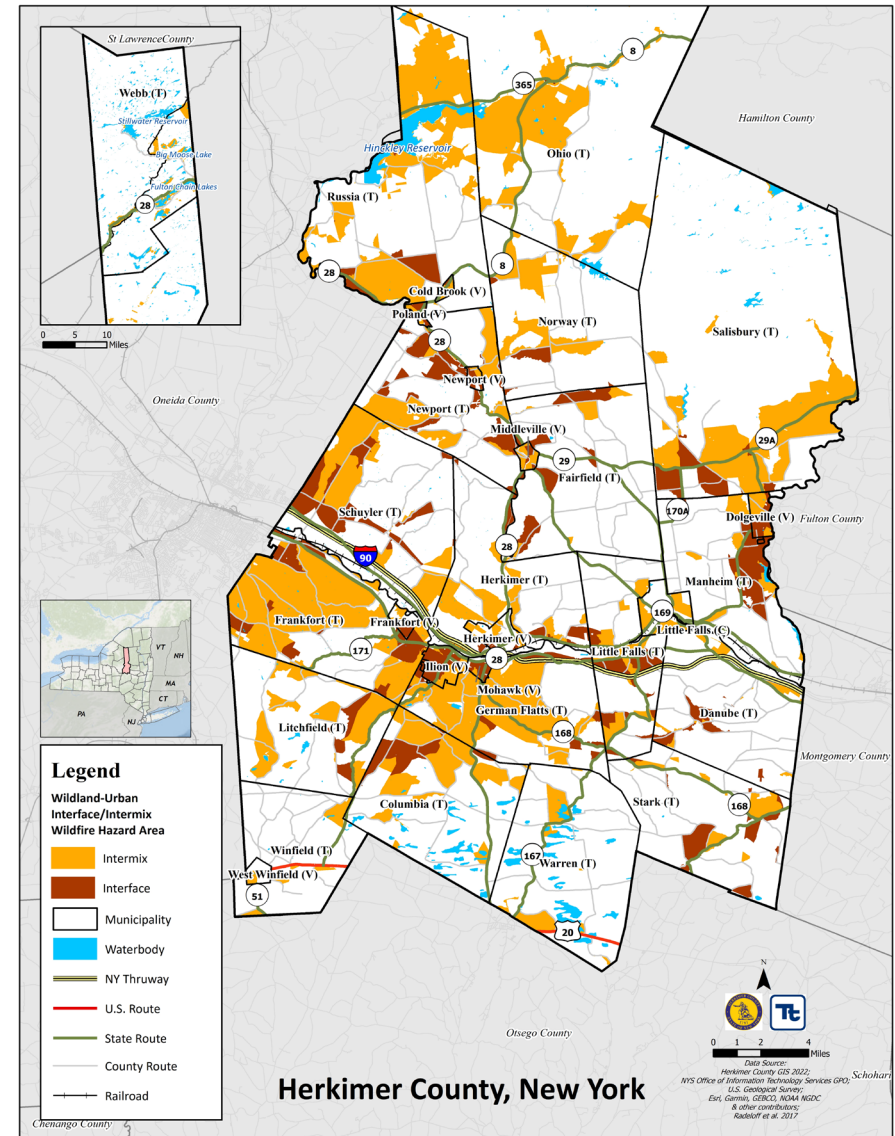
- HIGH for all municipalities



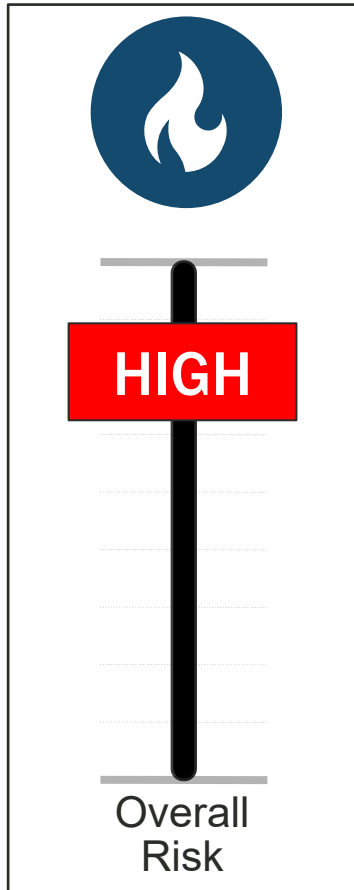
Wildfire

- Previous Events

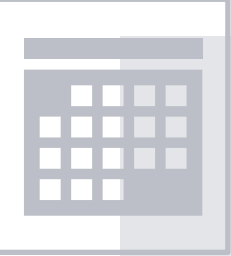
- The NYS HMP identified wildfire as a hazard of concern for New York State, however the daily probability of a wildfire event for the state is .09 percent.
- Two wildfire events were documented in Herkimer County between 1950-2022 (Source: NCEI, 9/26/2022).
 - Northern zone event: 7/5/2002
 - Southern zone event: 7/5/2022
- According to the 2021 Herkimer County CEPA, the wildfire hazard is ranked medium.
- Exposure
- People and property located in Wildfire Urban Interface WUI.



Countywide Ranking: Wildfire

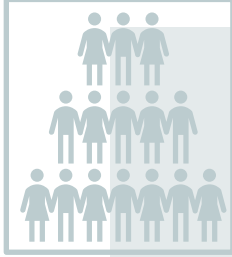


Overall Risk



Probability of Occurrence:

- OCCASIONAL




Impact on Population

- HIGH
- 21,962 people (36.5% of the population) in the WUI Interface




Impact on Property

- HIGH
- 9,579 buildings (31.2 % of County total) exposed to WUI Interface




Impact on Economy

- HIGH
- \$3.8M RCV of buildings (30.9% of County total) exposed to WUI Interface



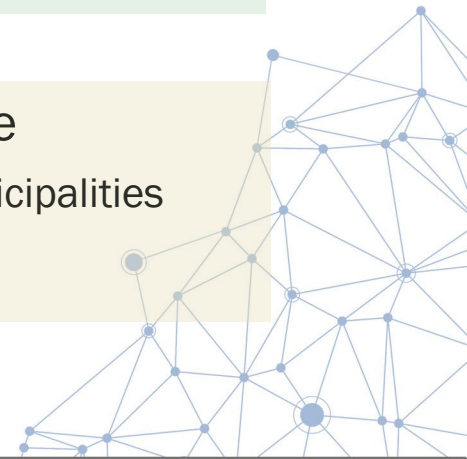
Adaptive Capacity

- MEDIUM for all municipalities



Climate Change

- HIGH for all municipalities



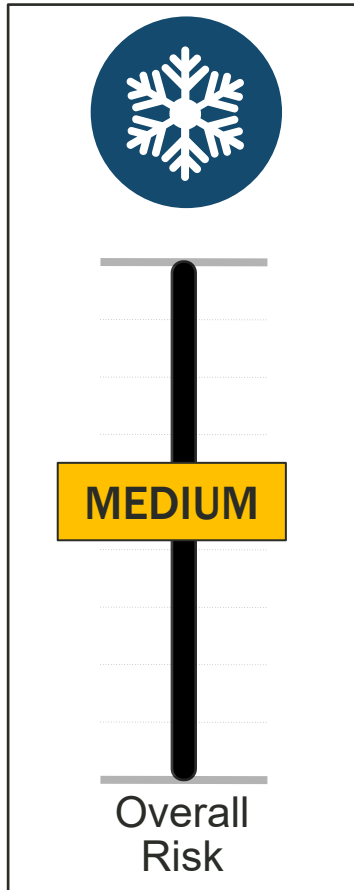
Severe Winter Storm

- Hazard includes heavy snow, blizzards, ice storms
- Previous Events
 - FEMA included Herkimer County in three winter storm-related disaster declarations:
 - FEMA-EM-3107 (Severe Blizzard) – March 1993
 - FEMA-DR-3173 (Snowstorms) – December 2002-January 2003
 - FEMA-DR-4322 (Severe Winter Storm and Snowstorm) – March 2017
- Exposure
 - All people and property exposed and vulnerable
- Potential Impacts
 - Power outages
 - Critical facility and infrastructure damage
 - Transportation interruptions/accidents



<https://www.uticaod.com/picture-gallery/news/2021/02/02/snowfall-herkimer/4356570001/>

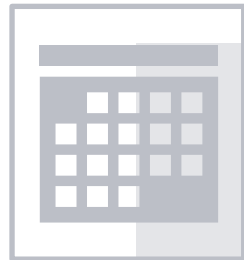
Countywide Ranking: Severe Winter Storm



A signpost graphic with a snowflake icon at the top, a yellow sign in the middle with the word "MEDIUM", and the text "Overall Risk" at the bottom.


MEDIUM

Overall Risk




Probability of Occurrence:

- FREQUENT




Impact on Population

- HIGH
- Entire population exposed and vulnerable




Impact on Property

- LOW
- All buildings exposed and vulnerable; however, impacts are minimal




Impact on Economy

- LOW
- While all buildings are exposed and vulnerable; economic impacts are minimal



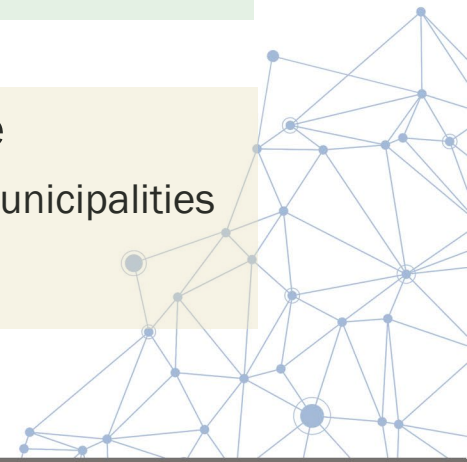
Adaptive Capacity

- HIGH for all municipalities



Climate Change

- MEDIUM for all municipalities



Disease Outbreak/Pandemic

- Previous Events

- According to the 2021 Herkimer County CEPA, the pandemic hazard is ranked medium.
- The County has been impacted by the COVID-19 pandemic (DR-4480).
 - Between March 15, 2020, and October 7, 2022, there have been 16,437 confirmed cases of COVID-19 with an average of 14 new cases reported daily (Tracking Coronavirus in Herkimer County, N.Y.: Latest Map and Case Count 2022)
- The County has been impacted by various diseases (COVID-19, West Nile Virus, Lyme disease).

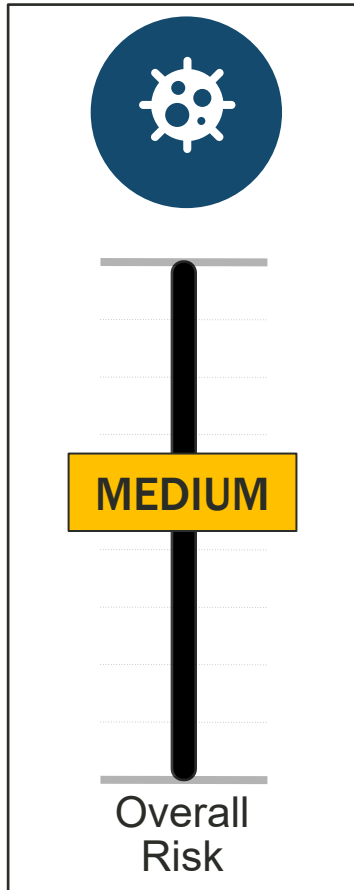
- Exposure

- Entire County is exposed and vulnerable; however, not occurring multiple times a year with significant impacts
- Severe events can lead to staffing and bed shortages in hospitals




<https://www.syracuse.com/coronavirus/2020/03/herkimer-county-schools-closing-for-a-month-in-response-to-coronavirus-pandemic.html>


Countywide Ranking: Disease Outbreak




A vertical signpost with a blue circular icon at the top containing a white gear with three holes. Below the icon is a black vertical pole with a yellow rectangular sign in the middle that reads "MEDIUM". At the bottom of the pole, the text "Overall Risk" is written.




Probability of Occurrence:
• FREQUENT




Impact on Population
• MEDIUM
• 15,516 of the County residents are 65+ years or <5 years (25.8% of County population)




Impact on Property
• LOW



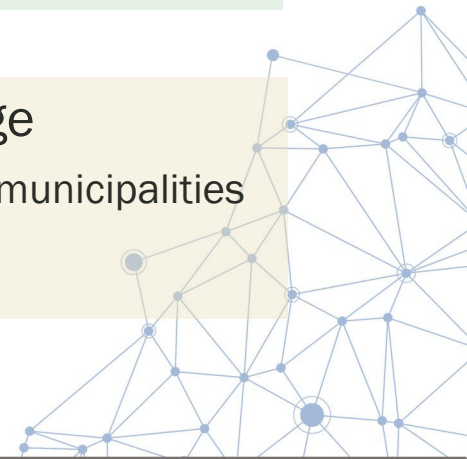
Impact on Economy
• MEDIUM



Adaptive Capacity
• MEDIUM for all municipalities

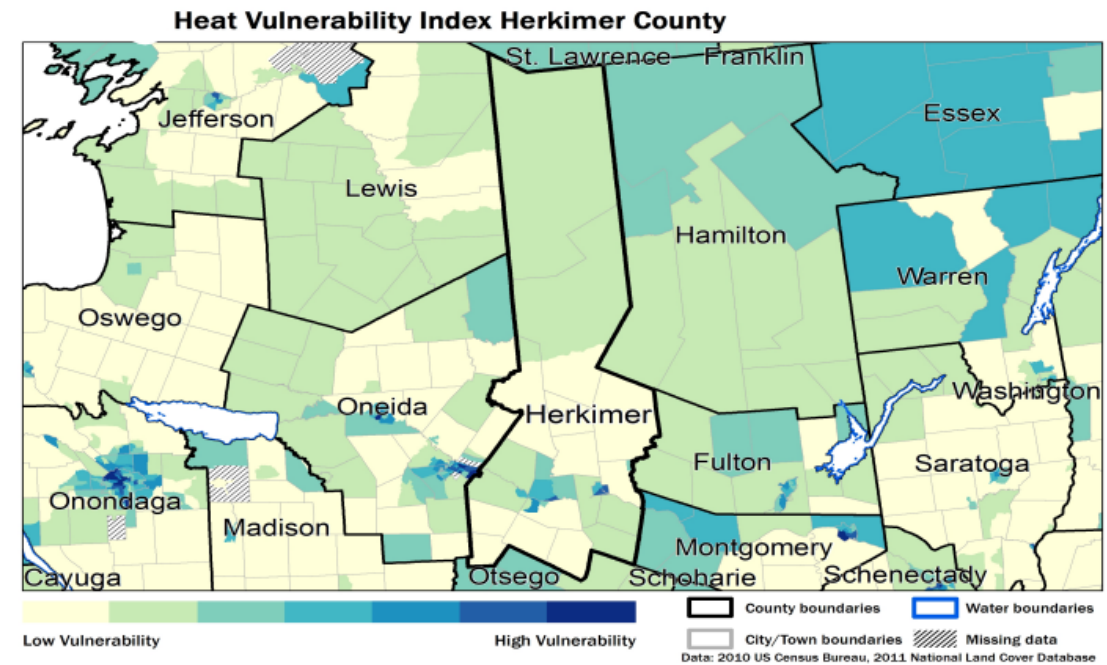


Climate Change
• MEDIUM for all municipalities




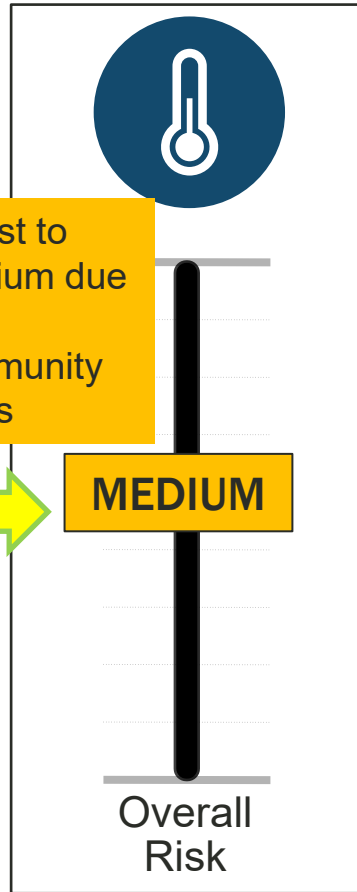
Extreme Temperature

- Previous Events
 - Hot and cold events
- Exposure
 - Entire County is vulnerable
 - Increased vulnerability to populations at higher risk (65+ / <5 years old)
- Potential impacts:
 - Increased wildfire/brush fire risk
 - Impacts to agriculture/farms
 - Long-periods of warm temperatures can lead to drought conditions




Source: <https://weatherspark.com/>


Countywide Ranking: Extreme Temperature




Probability of Occurrence:
• OCCASIONAL




Impact on Property
• LOW




Adaptive Capacity
• MEDIUM for all municipalities



Impact on Population
• MEDIUM
• 15,516 of the County residents are 65+ years or <5 years (25.8% of County population)



Impact on Economy
• LOW

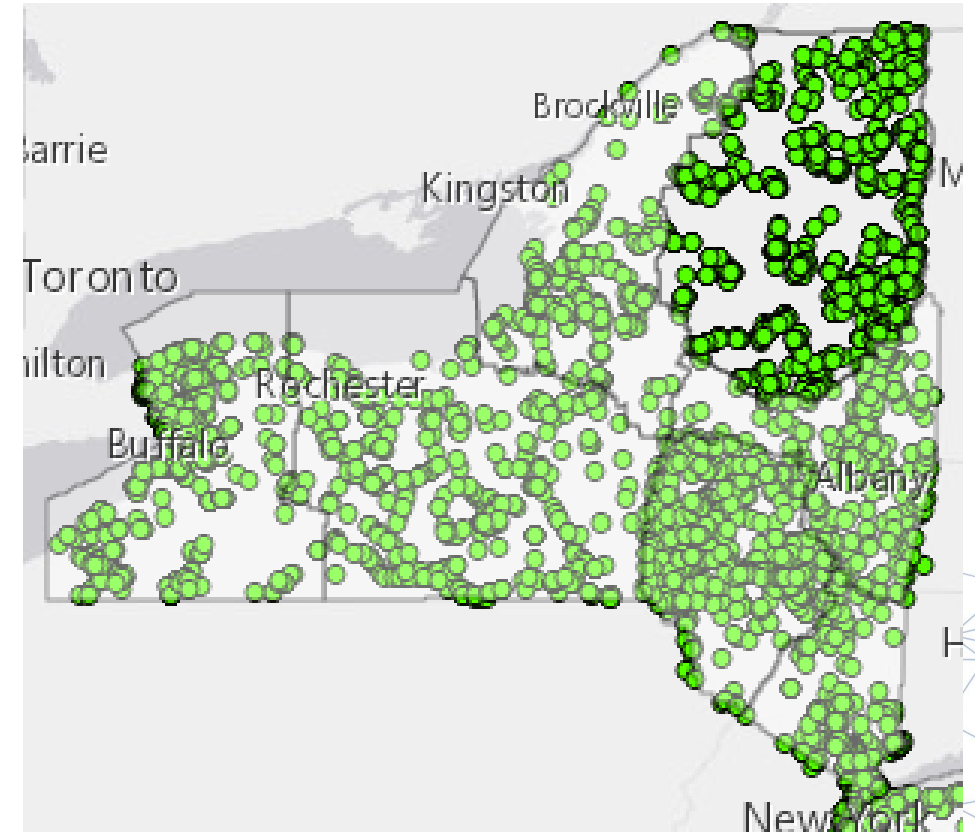


Climate Change
• HIGH for all municipalities




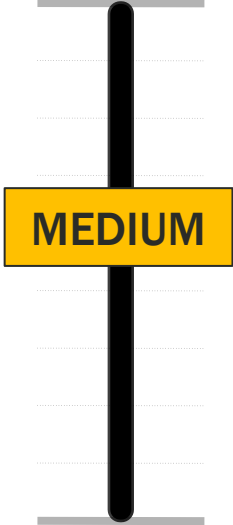
Infestation and Invasive Species

- Previous Events
 - Knotweed, 2023
 - West Nile Virus (2000)
 - Harmful Algal Bloom, Ilion Reservoir No. 3, 2021
 - Emerald Ash Borer
- Exposure
 - Entire County is vulnerable
- Potential impacts:
 - Soil destabilization
 - Increased wildfire risk
 - Crop damage
 - Loss of native fish, wildlife, and tree species
 - Loss of recreational opportunities and income



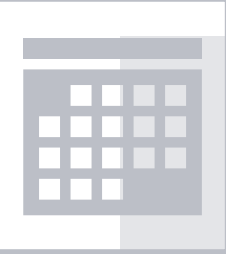
Knotweed Distribution Map – Source: Invasive Species Management, Adirondacks 2023

Countywide Ranking: Infestation/Invasive Species





MEDIUM

Overall Risk



Probability of Occurrence:
• FREQUENT




Impact on Population
• LOW
• Entire population is exposed and vulnerable; however, impacts are minimal




Impact on Property
• MEDIUM



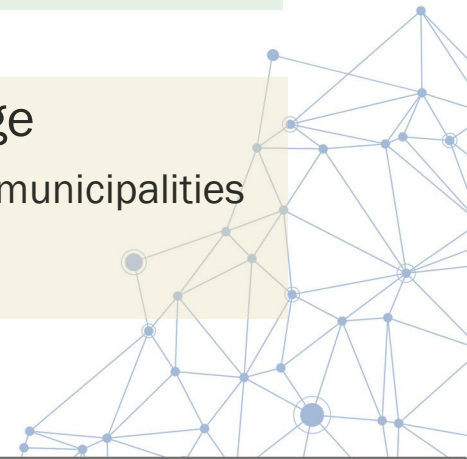
Impact on Economy
• MEDIUM



Adaptive Capacity
• MEDIUM for all municipalities

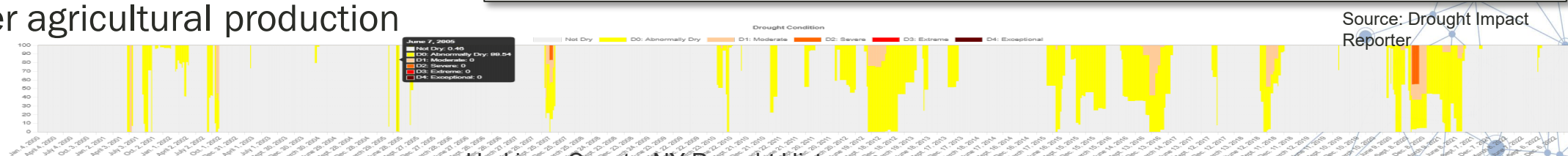
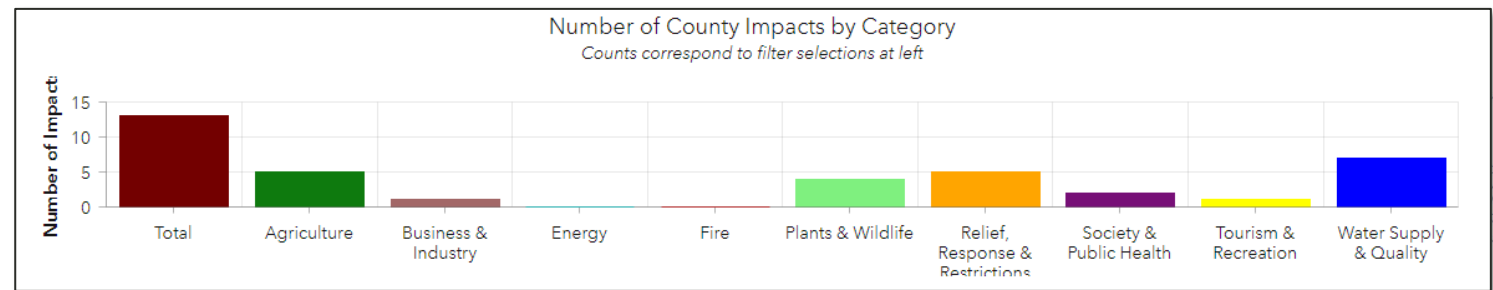


Climate Change
• MEDIUM for all municipalities



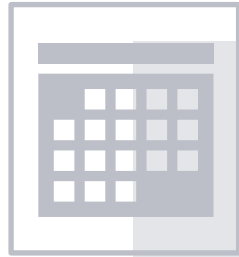
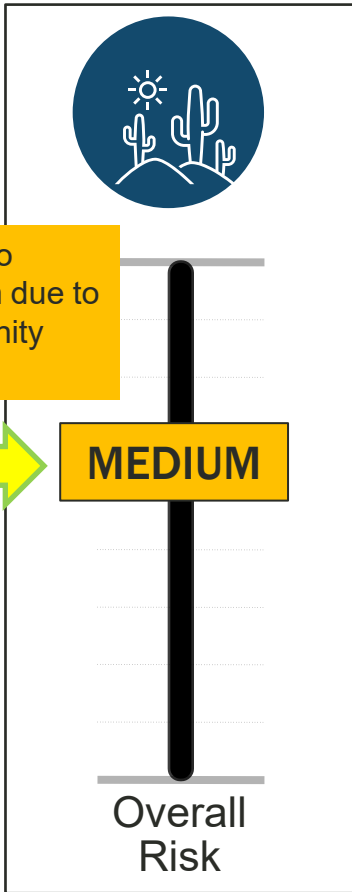
Drought

- Previous Events
 - Herkimer County entered an extreme drought at the end of 2020 (National Drought Mitigation Center 2022)
- Exposure
 - Entire County is vulnerable
- Potential Impacts
 - Water shortages
 - Reduced firefighting capability
 - Soil destabilization
 - Increased wildfire risk
 - Lower agricultural production



Source: Drought Impact Reporter


Countywide Ranking: Drought



Probability of Occurrence:

- OCCASIONAL


The block features a grey calendar icon on the left. To its right, a grey box contains the text 'Probability of Occurrence:' followed by a bulleted list with one item: '• OCCASIONAL'.



Impact on Population

- LOW
- 1,894 potable water wells (source: NYS DEC)
- Average household size: 2.63 people
- 8.3% of population depend on well water

The block features a grey icon of a group of people on the left. To its right, a grey box contains the text 'Impact on Population' followed by a bulleted list with four items: '• LOW', '• 1,894 potable water wells (source: NYS DEC)', '• Average household size: 2.63 people', and '• 8.3% of population depend on well water'.



Impact on Property

- LOW


The block features a green icon of buildings on the left. To its right, a green box contains the text 'Impact on Property' followed by a bulleted list with one item: '• LOW'.



Impact on Economy

- MEDIUM
- Periods of drought can impact agriculture in the County


The block features a green icon of a classical building on the left. To its right, a green box contains the text 'Impact on Economy' followed by a bulleted list with two items: '• MEDIUM' and '• Periods of drought can impact agriculture in the County'.



Adaptive Capacity

- MEDIUM for all municipalities

The block features a green icon of a list on the left. To its right, a green box contains the text 'Adaptive Capacity' followed by a bulleted list with one item: '• MEDIUM for all municipalities'.



Climate Change

- HIGH for all municipalities

The block features a yellow icon of a globe on the left. To its right, a yellow box contains the text 'Climate Change' followed by a bulleted list with one item: '• HIGH for all municipalities'.





Next Steps

- Update Risk Assessment
 - Prepare results to present to planning partners
 - Populate adjusted results municipal annexes
 - Planning Partnership Risk Assessment Meeting: **February 27, 2023, 2 pm**
 - Public Involvement Strategy – ongoing throughout the planning process
- Mitigation Strategy
 - Begin working with the municipalities to develop mitigation strategy/actions: **February 2023**
 - Mitigation Strategy Workshop with FEMA and NYSDHSES – **March 27, 2023**



Questions?



Herkimer County Emergency Services Project Contacts

John J. Raymond, Director
jraymond@herkimercounty.org

Robert Vandawalker, Executive Director
rvandawalker@herkimercounty.org

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, Project Manager
(973) 630-8044 | cynthia.bianco@tetratech.com

Heather Apgar, CFM, Lead Planner
(973) 630-8046 | heather.apgar@tetratech.com



**Thank
You!**



HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
Planning Partnership Meeting #2 – AGENDA
MEETING DATE/TIME: February 27, 2023 – 2:00 pm



- **Welcome**
- **Progress Report**
- **In-Kind Services Tracking**
- **Public and Stakeholder Outreach**
- **Risk Assessment Overview**
- **Next Steps/ Questions/ Wrap Up**



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Purpose of Meeting:	Planning Partnership Meeting
Location of Meeting:	Hybrid In-person and Teleconference Teams Meeting
Date of Meeting:	February 27, 2023, 2:00 pm – 3:01 pm

Attendees:

John Raymond	Director, Herkimer County Emergency Services
Rodney Denslow*	Tractor Supply
Dominic Frank*	Town of Herkimer
Richard Bronner*	Town of Stark
Chester Syzmanski*	City of Little Falls
Stephanie Toye*	Deputy Superintendent, Herkimer County Highway Dept.
Mishele Spaman*	Town of Frankfort
Marvin Jones	Village of Cold Brook
Peter Rovazzi*	Town of German Flatts
Gerald Pedersen*	NYSDHSES
Betsy Parmerter*	NYSDHSES
Jim Wilkinson*	NYSDHSES
Beth O'Reilly*	Planning Manager, Mitigation, NYSDHSES
Cynthia Addonizio-Bianco*	Tetra Tech

Agenda Summary: Purpose to provide a project status update and the preliminary municipal level hazards of concern relative risk rankings; to obtain input or adjustments of the rankings to incorporate local data.

Item No.	Description	Action item(s):
1	<p>Opening Remarks/Progress Report</p> <ul style="list-style-type: none"> Meeting started at 2:05 pm Mr. John Raymond, Director of Emergency Services of Herkimer County welcomed participants and noted the importance of the hazard mitigation plan in its role to reduce risks to natural hazard events. Cynthia Addonizio-Bianco, Tetra Tech (Tt), provided an overview of key agenda items as well as a progress update as summarized in the attached PowerPoint presentation. The process continues to be on track for plan submittal to FEMA in August 2023. The majority of data to support the hazard mitigation plan (HMP) development has been received, with the receipt of the National Flood Insurance Program (NFIP) data pending processing by FEMA. 	
2	<p>In-Kind Services Tracking/Outreach</p> <ul style="list-style-type: none"> The county and Tt reminded the planning partners to document any time spent to attend HMP meetings, to provide input, or to provide information to their constituencies to ensure their 	



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<p>efforts are included in the documentation to comply with grant requirements.</p> <ul style="list-style-type: none"> • The public HMP website(https://www.herkimercountynyhmp.com/) has been updated with meeting dates and meeting documentation. The public draft will be located on this site for public review. • Surveys to target the public, neighboring counties, agencies, and businesses have been distributed and will be used to provide additional input to the plan to support the identification of mitigation actions. 	
3	<p>Risk Assessment Overview</p> <ul style="list-style-type: none"> • Tt reviewed the methodology to calculate the relative risk of the county’s identified hazards of concern and shared the preliminary risk rankings. The ranks of Low, Medium, and High for each hazard will serve as a guide in identifying impactful mitigation actions to reduce damages and increase resilience. After review and adjustment by the core group, the preliminary county level ranks are as follows: <ul style="list-style-type: none"> ○ Disease Outbreak (including Covid-19, influenza, and tick-borne illnesses) - Medium ○ Extreme Temperatures - Low ○ Drought – Medium ○ Flood - High ○ Dam Failure - Medium ○ Infestation - Low ○ Severe Storm (Windstorm, Thunderstorm, Hail, Tornado) – High ○ Severe Winter Storm (Heavy Snow, Blizzards, Ice Storms) - Medium ○ Wildfire - Medium <p>The county ranks indicate the calculated regional risk rather than the highest municipal risk. The planning partnership was tasked to review the information provided in the presentation (see attached) to prepare to adjust their municipal ranks to reflect local conditions. Tt will email risk ranking worksheets to each of the planning partners to adjust or validate the hazard ranks and provide information regarding problem areas to help identify mitigation projects and to prepare for the Mitigation Workshop on March 27th. The completed worksheets are due on or before March 21st by email to Tt.</p> <p>The Town of Herkimer noted that there is a dam owned by a private firm in the West Canada that is connected to a non-operating hydro plant for potential inclusion in the plan. Tt noted that the dam will be included in the dam failure profile in the plan.</p>	<p>Worksheets to be distributed by Tetra Tech to Planning Partnership members for return by March 21st.</p>
4	<p>Upcoming Meeting Mitigation Strategy Workshop – March 27,2023 <i>(Optional for Steering Committee members not affiliated with a municipality.)</i></p>	



Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



5	Next Steps <ul style="list-style-type: none">• Continue to engage the public• Begin working with the municipalities to develop mitigation strategy/actions: March 2023 Mitigation Strategy Workshop with FEMA and NYSDHSES – March 27, 2023	
10	Conclusion - The meeting concluded at 3:01 pm	

70FA6022F00000062

HMA Grant Program Technical Assistance

Sector C

Monthly Progress Meeting

- April 20, 2023

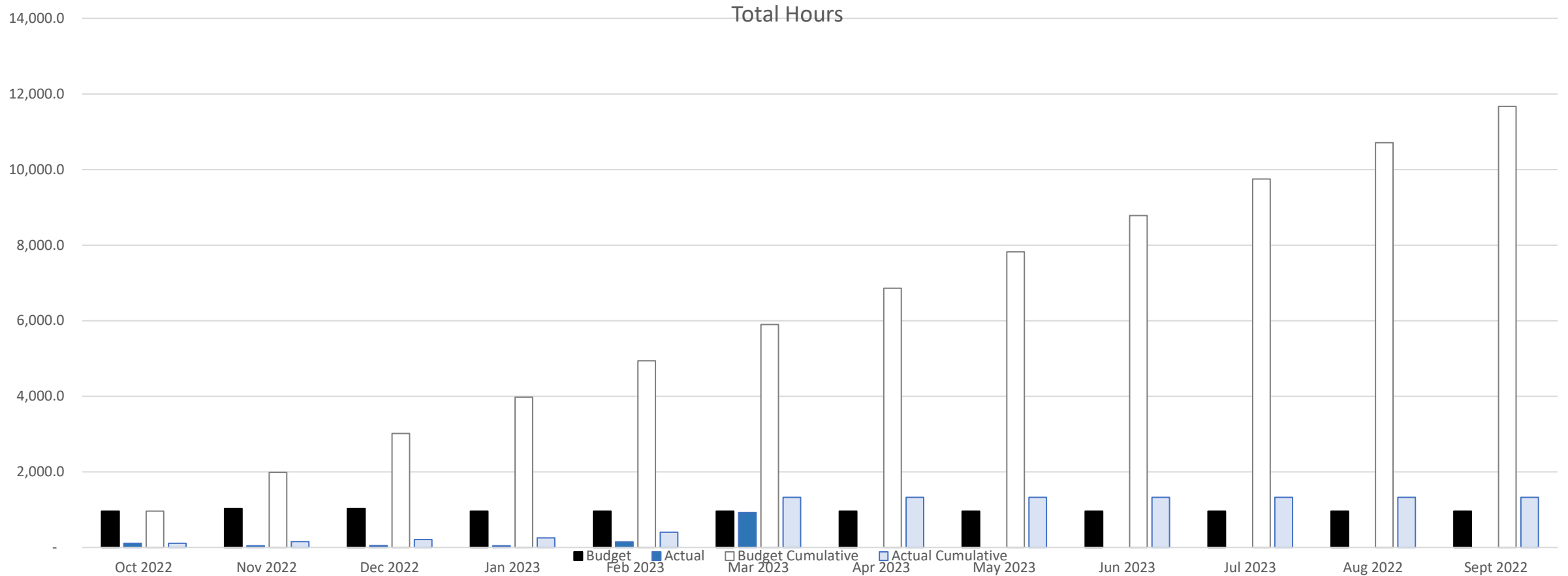
Agenda

- Review of February Monthly Status Report
- Action Items
- Look Ahead – Objective-Specific Activities

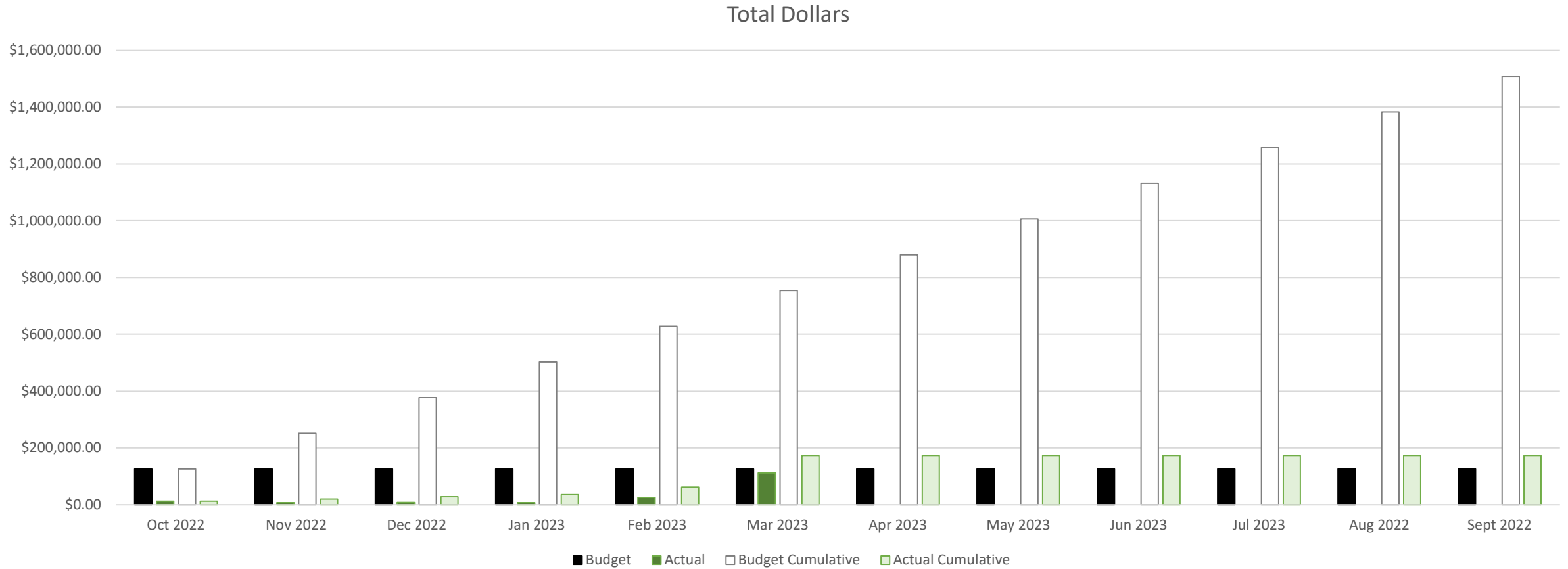
Review of Prior Month MSR and Current Month To Date

Hours	February 2023	March 2023
Task 001 - Task Order Administration	149.3	923.25
Total	402.25	1,325.5
Dollars	February 2023	March 2023
Task 001 - Task Order Administration	\$26,197.35	\$111,670.03
Total	\$67,391.18	\$179,072.40

Budgeted vs Actual Hours



Budgeted vs Actual Cost



March Deliverables and Activities

- The following slides represent activities by ARM staff in February 2023 (2/25/23 through 3/31/23).

Task Order Management

Task Order Management. ARM staff completed the following management tasks related to the task order:

- Deliverable tracking
- Cost and budget tracking
- On 3/27/2023, ARM submitted an order of magnitude screening estimate for FEMA-HMGP-COVID-HMTAP-4489-0036-IL and 4489-0042-IL for Objective 2 reviews.
- ARM requested clarification regarding the requirement to submit the populated ART with review feedback for Region 6. Region 6 indicated that the populated ART will not be a required deliverable.
- ARM initiated work on assigned deliverables. Initial deliverables to be submitted include 4485-0019-TX, -0048-TX, -0050-TX, -0052-TX, and -0053-TX.
- ARM tracked assignments and progress on its tailored workflow application. As of 3/31/2023, ARM has received a total of 148 assignments (64 assignments in February and 84 assignments in March) consisting of 85 Objective 2 reviews and 63 Objective 5 reviews.

Task Order Activities

Task Order Activities.

- ARM submitted the following clarifications regarding assignments and or deliverables:
 - Shall the ART be populated as a deliverable? (FEMA indicated that this will not be a required deliverable.)

Task Order Activities

Task Order Activities.

- Look Ahead: ARM submitted the following clarifications regarding assignments and or deliverables in April reporting period:
 - 4485-005: This file name does not align with the other files which have been provided with 4-digit project numbers. We believe this could be project number 0055.
 - 4485-0106: This folder includes only BCA files without supporting documentation, application or scope of work. If the supporting documents are available, ARM will provide a complete summary of findings. Otherwise, ARM will indicate that the supporting documentation has not been provided.
 - 4485-0096: ARM has received 2 packages labelled as 4485-0096. They are 1. The City of Kaufman, and 2. Harlingen Waterworks System Facility Generators. We are tracking the City of Kaufman under this number and await a new file designation for the Harlingen project.
 - 4485-0483: the file includes an 'intent to withdraw' letter, should this package still be reviewed for technical feasibility and BCA?
 - 4485-0198: to confirm that this application for a museum generator is eligible to fund/considered a critical facility project. If this is not deemed an allowable project, we will omit this from our assigned reviews.

Task Updates

- Pending assignments:
 - Submitted screening estimates with no response: 4518-0111-AR; 4515-0005-IN; 4515-0006-IN
 - Region 6 uploaded documents awaiting assignments:
- Feedback:
 - Region feedback on content of deliverables.
- Regional Status Meetings
 - To be scheduled.

Progress Overview-by Objective

Count of Individual Objective Assignments*

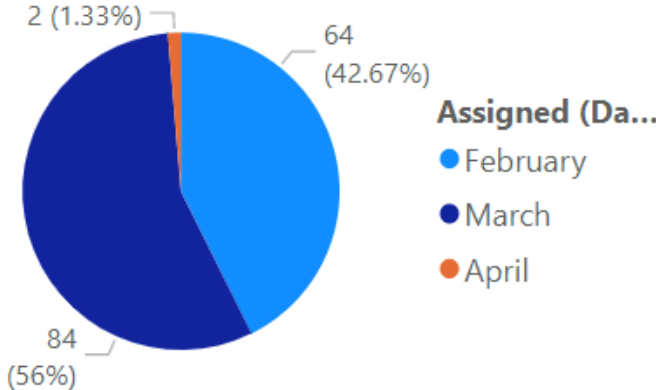
Objective	Count of Title	Milestone	Milestone Name
5 - BCA	52	Milestone 1	RFI #1
5 - BCA	11	Milestone 2	RFI #1 Response
2 - Application	73	Milestone 1	RFI #1
2 - Application	14	Milestone 2	RFI #1 Response
Total	150		

**Number of packages received = 133, Number of objective assignments per package = 1 or 2*



Progress Overview by Date

Count of Assignments by Month



Count of Assignments By Month

Objective	February	March	April	Total
2 - Application	32	53	2	87
5 - BCA	32	31		63
Total	64	84	2	150

List of Assignments by Date

Expand Each List to See Assignment Names

Month	Estimate Submitted	External Review	In Progress	Internal Review	Not Started	Total
Not Yet Assigned	2				43	45
February		23	40	1		64
16				1		1
23		23	40			63
March		2	82			84
8		2	80			82
13			2			2
April			2			2
Total	2	25	124	1	43	195



Progress Overview by Budget

Current Budget by State

DR Funding Source	Total Authorized (\$)	Budget Estimate (\$)	Actual (\$)	Budget Subtotal	Balance
4485-TX	\$916,833	\$465,000		\$451,833	\$916,833
4484-LA	\$107,362			\$107,362	\$107,362
4489-IL	\$106,289	\$25,000		\$81,289	\$106,289
4494-MI	\$71,285			\$71,285	\$71,285
4507-OH	\$63,414			\$63,414	\$63,414
4520-WI	\$45,075			\$45,075	\$45,075
4515-IN	\$35,059	\$21,000		\$14,059	\$35,059
4490-MO	\$34,557			\$34,557	\$34,557
4483-IA	\$26,789			\$26,789	\$26,789
4521-NE	\$24,875			\$24,875	\$24,875
4531-MN	\$24,178			\$24,178	\$24,178
4529-NM	\$16,207	\$6,000		\$10,207	\$16,207
4530-OK	\$14,538			\$14,538	\$14,538
4504-KS	\$12,394			\$12,394	\$12,394
4518-AR	\$10,081	\$15,800		(\$5,719)	\$10,081
Total	\$1,508,936	\$532,800		\$976,136	\$1,508,936

Upcoming Activities and Deliverables

- Look Ahead Discussion

Look Ahead – Objective-Specific Activities

- ARM will prepare the Monthly Status Report for April 2023 activities and will present the update in the monthly status meeting.
- ARM will receive and comply with the PTA provided by FEMA.
- ARM will continue to process Objective 2 and Objective 5 reviews.

Other Items?

- What other activities and/or deliverables have not yet been discussed?
- Course corrections – are there potential issues regarding work assignments that can be addressed proactively?
- Additional issues, risks, or concerns?

Longer Term Actions and Planning

- Discussion

Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Purpose of Meeting:	Mitigation Strategy Workshop
Location of Meeting:	Virtual Teams Meeting
Date of Meeting:	April 24, 2023, 10:00 am

Attendees:	
Mishele Spaman*	Town of Frankfort
Marvin Jones*	Village of Cold Brook
Robert Vandawalker*	Herkimer County-Emergency Services
Mark Buddle*	Town of Columbia
Diane Ward	Herkimer County- Health
Pedersen, Gerald (DHSES)	NYSDHSES
O'Reilly, Elizabeth (DHSES)	NYSDHSES
Stephanie Tyoe (Guest)	Herkimer County - Highway
Dominic Frank	Town of Herkimer
Paperman, Roland (DHSES)	NYSDHSES
Wilkinson, John (DHSES)	NYSDHSES
Peter Rovazzi	Town of German Flatts
John Stephens	Village of Ilion
Clapp, Kevin (DHSES)	NYSDHSES
Rodney Denslow	Tractor Supply
Betsy Parmarter	NYSDHSES
Chris Huch	Tetra Tech, Inc.
Cynthia Addonizio-Bianco	Tetra Tech, Inc.

Agenda Summary: Purpose to provide guidance on identifying mitigation actions and developing a mitigation strategy

Item No.	Description	Action item(s):
1	Opening Remarks/Progress Report <ul style="list-style-type: none"> Meeting started at 10:05 am 	
2	In-Kind Services Tracking/Outreach <ul style="list-style-type: none"> Mr. Raymond reminded committee members to document any time spent to attend HMP meetings, to provide input, or to provide information to their constituencies to ensure their efforts are included in the documentation to comply with grant requirements. The public HMP website https://www.herkimercountynyhmp.com/ has been updated with meeting dates and meeting documentation. The public draft will be located on this site for public review. 	Action: Submit documentation of hours spent supporting the mitigation planning process, including hours spent to provide data, review documents, provide updates to communities.

Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



3	<p>Developing Mitigation Strategies</p> <ul style="list-style-type: none">• Tetra Tech reviewed risk reduction strategies as included in the presentation (attached).• Tetra Tech distributed brainstorming worksheets to kick-start the development of problem statements. In addition, they provided all communities with pre-populated Action Worksheets for some initial projects.• Mr. Clapp noted that when developing mitigation projects it is helpful to consider sustainable elements such as including solar, wind, or microgrid elements for backup power generation for critical facilities. He noted that if there is an area with multiple facilities owned by a municipality in the same general area, consideration should be given to how backup power can be provided for multiple buildings and how can funding can be obtained from multiple sources, not just FEMA but other state or federal agencies who have available funding programs.	
4	<p>Development of Actions</p> <p>Tetra Tech reviewed the following guidelines for the content of Action Worksheets:</p> <ul style="list-style-type: none">• Projects should have a strong connection to the risk assessment• Projects should be specific in time, place, and location• Projects should be diverse in nature• Communities have been provided a Mitigation Catalog• Project descriptions to include consideration of priorities, integration with existing programs, timelines, benefits, and costs• Mr. Clapp noted that it is important for communities to consider participating in the NY Climate Smart or the Clean Energy community programs as these support resiliency and our planning process can be credited for points under these programs. He also noted that if communities participate in FENA's Community Rating System Program, NFIP insured property premiums discounts could be available.• Mr. Frank asked for clarification on the number of projects to include in a community's mitigation strategy regarding the ability to complete the project within the 5-year performance period of the hazard mitigation plan or if a larger list of projects would support future funding of projects. Mr. Huch noted that it is best to include projects that can be realistically completed within 5 years but that additional projects may be included as part of the annual maintenance of the plan. [Post meeting note-communities may include additional projects that may be implemented outside the 5-year performance period of the plan, or these may be	

Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<p>added as they emerge as per the plan maintenance procedure that will be included in the plan.] Mr. Clapp further noted that projects addressed by public assistance are not impacted or limited by the projects included in the hazard mitigation plan. He reinforced the comment that additional actions or projects can be included during the plan maintenance process as the mitigation plan is a living plan.</p> <ul style="list-style-type: none"> • The Village of Cold Brook noted that they experience major flooding issues as they are located down hill from other communities and ¾ of the village is in the floodplain. There are 7 bridges in the village (with only one bridge owned by the village, the others are state-owned) and much of the work in reducing flooding needs to be done outside of the village limits. In addition there are water quality issues due to farm ponds and incorrectly installed septic systems which malfunction during flood conditions and contaminate the stream. Mr. Clapp noted that there needs to be coordination to develop mitigation actions with neighboring communities. This needs to be addressed holistically including coordination with the state department of transportation, NYDEC, Soil & Water Conservation District (SWCD), and the Army Corps of Engineers. • The County has dealt with the DOT and the SWCD which resulted in a re-design to eliminate the wash out and the water runs behind the houses. On the side of town near Russia, debris build up creates flooding during a hard storm. • In 2011 there was a mud slide caused by runoff through the village. The flooding was significant, and a refrigerator was seen floating past the first responders in a fire truck and a house was washed out. 	
5	<p>Next Steps</p> <ul style="list-style-type: none"> • To enable those who could not participate, a video of the presentation is available online for review here: HerkimerMitigationActionWorkshop • Continue to engage the public • Develop mitigation strategy/actions: May 2023 • Emails will be sent to all participating planning partner communities with contact information for the planner assigned to support the development of each community annex or chapter of the plan. All planning partners are requested to set up a meeting with their assigned planner before May to complete its community annex. 	Schedule a support meeting with Tetra Tech to complete your community annex.
6	<p>Conclusion - The meeting concluded at 11:15 am.</p>	

Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



Purpose of Meeting:	Mitigation Strategy Workshop
Location of Meeting:	Virtual Teams Meeting
Date of Meeting:	April 24, 2023, 6:00 pm

Attendees:	
John J. Raymond*	Herkimer County-Emergency Services
Ronald Beach*	Town of Schuyler
Gary Snyder*	Town of Norway
Chester Szymanski*	Village of Dolgeville and City of Little Falls
Chris Huch	Tetra Tech, Inc.
Cynthia Addonizio-Bianco	Tetra Tech, Inc.
*In person.	

Agenda Summary: Purpose to provide guidance on identifying mitigation actions and developing a mitigation strategy

Item No.	Description	Action item(s):
1	<p>Opening Remarks/Progress Report</p> <ul style="list-style-type: none"> Meeting started at 6:05 pm Mr. Raymond welcomed the attendees and Ms. Bianco noted that the purpose of this meeting was to provide guidance on identifying mitigation actions and developing a mitigation strategy for each participating community in the Herkimer County Hazard Mitigation Plan. 	
2	<p>In-Kind Services Tracking/Outreach</p> <ul style="list-style-type: none"> Mr. Raymond reminded committee members to document any time spent to attend HMP meetings, to provide input, or to provide information to their constituencies to ensure their efforts are included in the documentation to comply with grant requirements. It is important municipalities to submit documentation of in-kind hours to support the obligations related to the planning grant funding. The public HMP website https://www.herkimercountynyhmp.com/ has been updated with meeting dates and meeting documentation. The public draft will be located on this site for public review. 	Action: Submit documentation of hours spent supporting the mitigation planning process, including hours spent to provide data, review documents, provide updates to communities.
3	Developing Mitigation Strategies	

Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<ul style="list-style-type: none"> • Tetra Tech reviewed risk reduction strategies as included in the presentation (attached). • Tetra Tech distributed brainstorming worksheets to kick-start the development of problem statements. In addition, they provided all communities with pre-populated Action Worksheets for some initial projects. • Mr. Beach noted that the Town of Schuyler has the need for emergency trailers to store equipment to deploy for road closures during flood emergencies on the east and west ends of the town. While this more of a preparedness rather than a mitigation action, it can be included in the town’s annex as a project to position it for funding and implementation. In addition, the town is looking to increase the capacity of culverts to reduce flood impacts. • Regarding the need for timely road closures, a county-level action was discussed to support better communication of the location of flooding and the quick deployment of equipment to close roads when needed. • Mr. Beach noted that the Town of Schuyler highway superintendent documents flood issues and closures with photos for record. This data will be helpful in documenting damages and in justifying grant funding. • There was major flooding during DR4472 during which people had to be rescued off of the roofs of their homes. One of the contributing factors was the debris build up under the CSX bridge. • It was noted that the CSX railroad bridge is a problem area due to debris and gravel buildup under the throughway. In the past debris was cleared by local farmers, but lately it has not been cleared. 	
4	<p>Development of Actions Tetra Tech reviewed the following guidelines for the content of Action Worksheets:</p> <ul style="list-style-type: none"> • Projects should have a strong connection to the risk assessment • Projects should be specific in time, place, and location • Projects should be diverse in nature • Communities have been provided a Mitigation Catalog • Project descriptions to include consideration of priorities, integration with existing programs, timelines, benefits, and costs• 	
5	<p>Next Steps</p> <ul style="list-style-type: none"> • To enable those who could not participate, a video of the presentation is available online for review here: HerkimerMitigationActionWorkshop • Continue to engage the public 	Schedule a support meeting with Tetra Tech to complete your community annex.

Herkimer County
Hazard Mitigation Plan Update
Meeting Notes



	<ul style="list-style-type: none">• Develop mitigation strategy/actions: May 2023• Emails will be sent to all participating planning partner communities with contact information for the planner assigned to support the development of each community annex or chapter of the plan. All planning partners are requested to set up a meeting with their assigned planner before May to complete its community annex.	
6	Conclusion - The meeting concluded at 7:07 pm.	

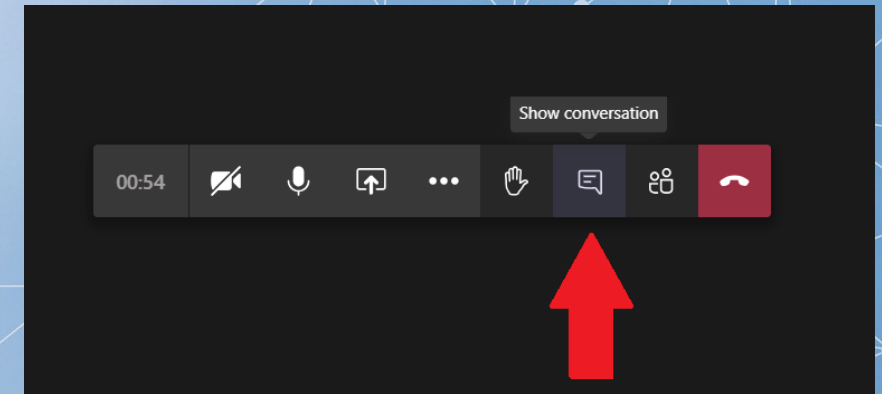
Herkimer County, New York Hazard Mitigation Plan – 2023 Update

Mitigation Strategy Workshop | April 24, 2023

WELCOME!

If you are attending the webinar on your computer, please add your name, title, and organization(s) to the chat box.

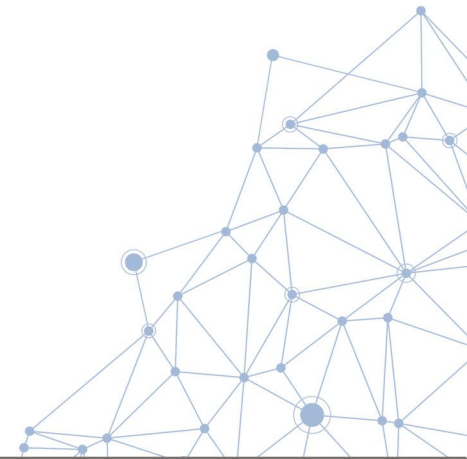
This will assist in our attendance documentation.





Agenda

1. Introductions
2. In-Kind Tracking Reminder
3. Hazard Mitigation Refresher
4. Project Status
5. Developing Mitigation Strategies – NYS DHSES, FEMA
6. Updating Previous Actions
7. Using Mitigation Development Worksheets to Select Your Actions
8. Next Steps

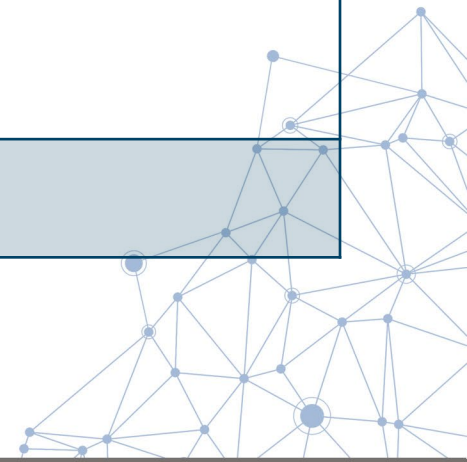




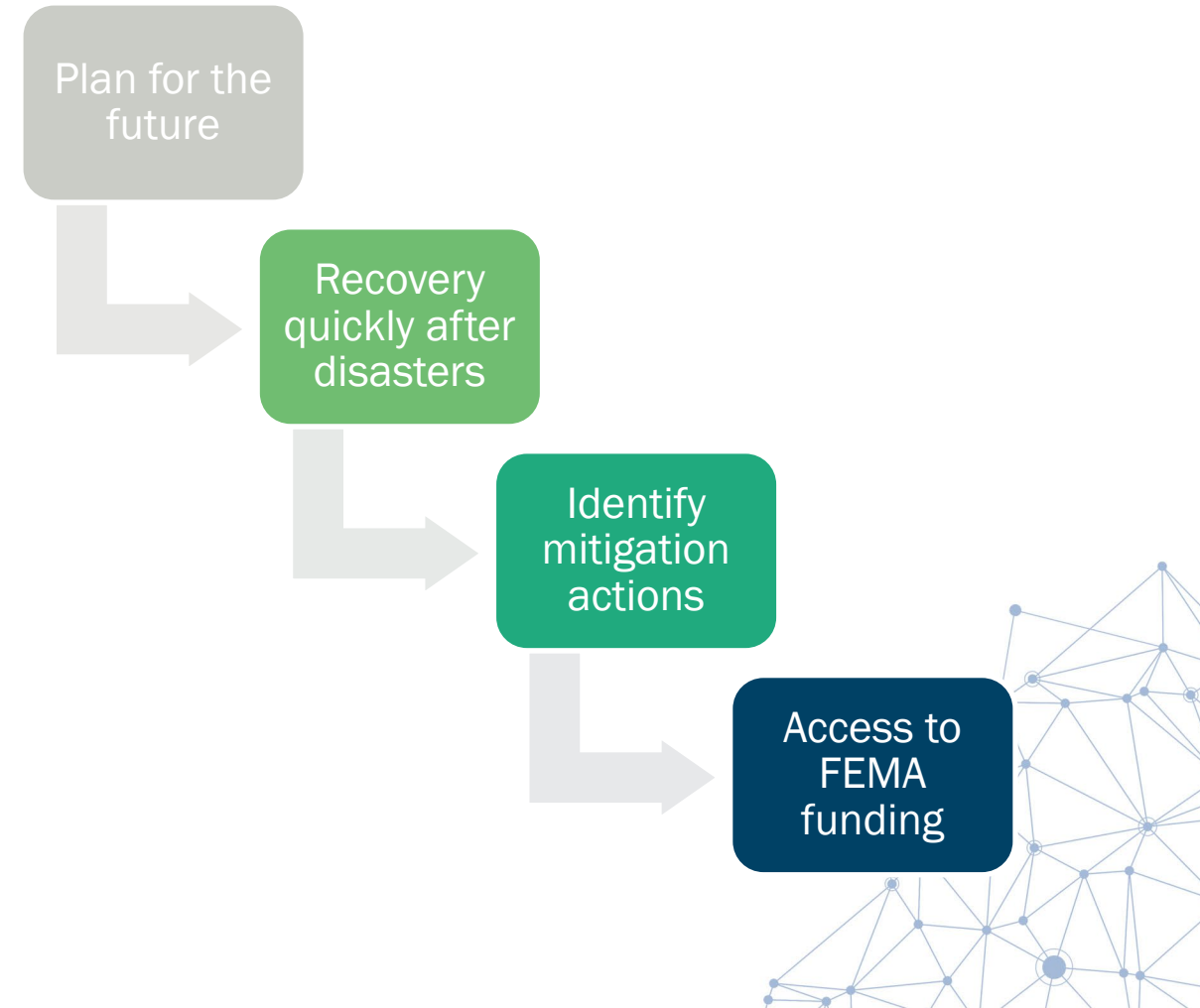
In-Kind Services Tracking

- Submit form to John Raymond at jraymond@herkimercounty.org

Name of Team Member: _____							
Correspondence Type	Meeting Name, Municipality	Date	Start Time	End Time	# of Hours	Agenda/Sign In?	Notes (include meeting topic, how HMP was discussed, etc.)
Meeting	Chiefs and Fire Advisory Board Meeting					Yes - sign-in	Discussed the HMP update
Meeting	Town of ?? Board Meeting						Discussed the HMP update
Phone Call	Town of ??phone call					No	Spoke with the Town about the HMP process and their responsibilities in participating
Meeting	Town of ?? Board Meeting					Yes - agenda	



Hazard Mitigation – What is it?



Why are we spending valuable time on this?

Hazard Mitigation Works!

- For every \$1 spent on hazard mitigation, saves the U.S. \$6 in future disaster costs!
- More than just money – it could prevent 600 deaths and 1 million non-fatal injuries!

More Mitigation Measures, More Savings



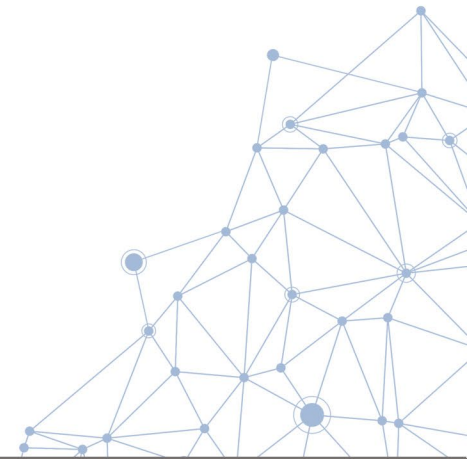
**One dollar invested in mitigation =
six dollars U.S. saves in future costs**





Project Schedule Review

- | | | |
|---|-------------------------|--|
| ✓ | September 26, 2022 | Municipal Kick-Off Meeting |
| ✓ | October – December | Data Collection |
| ✓ | January 2023 – February | Update hazard profiles |
| ✓ | February 21, 2023 | Risk Assessment Presentation to Steering Committee |
| ✓ | February 27, 2023 | Risk Assessment Presentation to Planning Partnership |
| ✓ | April 24, 2023 – TODAY! | Mitigation Strategy Workshop |
| ☐ | June 2023 | Review draft plan |
| ☐ | August/September 2023 | Submit plan to NYSDHSES and FEMA |





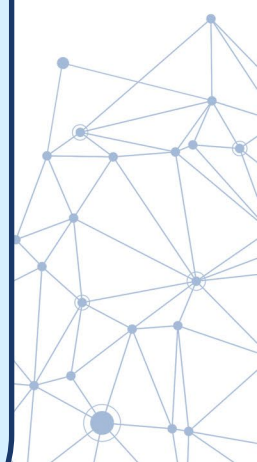
Progress

- Requested NFIP Data – *Received today.*
- GIS Data Collection - *Complete*
- Critical Facility Survey for Municipal Input – *Complete*
- HMP website, HMP Fact Sheet, Citizen Survey, Agency Surveys – *Input collected*
- County-Level/Regional Plan Collection – *Complete*

Communities *with general or risk ranking* worksheets* pending:

- Cold Brook (V)*
- Columbia (T)*
- Dolgeville (V)*
- Frankfort (V)
- German Flatts (T)
- Herkimer (V)*
- Ilion (V)*
- Litchfield (T)*
- Little Falls (C)*
- Manheim (T)*
- Middleville (V)
- Mohawk (V)
- Newport (V)*
- Norway (T)*
- Ohio (T)*
- Poland (V)*
- Russia (T)
- Salisbury (T)
- Schuyler (T)*
- Stark (V)*
- Warren (T)
- West Winfield (V)
- Winfield (T)

* = **Only Risk Ranking Worksheet is not submitted.**





Public and Stakeholder Outreach

- HMP website is updated with current information.

<https://www.herkimercountynyhmp.com/>

- Social Media
- Public Survey
- Stakeholder Survey
- Neighboring County Outreach
 - Notified of planning process
 - Survey

Herkimer County Hazard Mitigation Plan 2023 Update

Home About What is Mitigation Meetings Calendar Explore the Plan Additional Information

Herkimer County Hazard Mitigation Plan Update

The goal of the project is to save lives and property through the reduction of hazard vulnerability for the entire county. During the course of this planning project, county and local leaders and the community will work in tandem to identify risks, assess capabilities, and formulate a strategy to reduce disaster vulnerability.

Welcome to the Herkimer County Hazard Mitigation Plan (HMP) Website. This website provides project updates, resources, and links to hazard mitigation in support of the HMP update.

Public participation and feedback is a vital part of the hazard mitigation planning process. The Herkimer County Hazard Mitigation Steering Committee has developed a Mitigation Survey to assist in providing the public an outlet to contribute to the Herkimer County HMP update. This survey will be used to develop portions of the HMP. Click here to access and complete the public survey. Thank you for participating in this important initiative by providing us with your anonymous survey contribution.

Keep checking back regularly for information on upcoming events, to take our public survey, and to review and comment on the draft plan. If you would like to get in touch with the project team, please use the following contact information:

Project Contacts:
John J. Raymond, Director
Herkimer County Emergency Services
jraymond@herkimercounty.org

Cynthia Addonizio-Bianco, Project Manager
Tetra Tech, Inc.
cynthia.bianco@tetrattech.com

HERKIMER COUNTY HAZARD MITIGATION PLAN UPDATE
WE NEED YOUR HELP!

Grants & Funding Plan & Prepare Mitigate

CLICK HERE TO TAKE THE PUBLIC SURVEY AND HELP US UPDATE THE HERKIMER COUNTY HMP



Public Outreach and Engagement

- Check out the HMP website – <https://www.herkimercountynyhmp.com/>
- Post links on social media and department/agency websites
- Citizen, stakeholder and neighboring county survey responses as of 4/24/23:
 - Citizen Survey: 33 responses
 - Stakeholder Survey: 4 responses
 - Neighboring County Survey: 1 response
 - *All responses relating to your jurisdiction will be included in your updated Annex for review.*



Mitigation Strategy





2023 HMP Hazards of Concern

- Dam Failure
- Disease Outbreak
- Drought
- Extreme Temperatures
- Flood
- Invasive Species
- Severe Storm (thunderstorm, hail, wind, tornado, hurricane/tropical storm, and Nor'Easter)
- Severe Winter Storm
- Wildfire

A community must include at least one mitigation action for each hazard that is deemed to have a significant impact on the community.

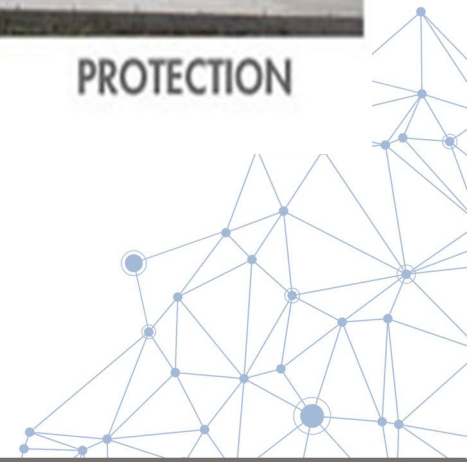
For hazards with minimal or no perceived impact to a community, a statement must be included in the annex to indicate why the community has not address any hazards with a mitigation action.



Risk Reduction Examples

To Reduce Risk:

- **Manipulate the Hazard:**
 - Structural flood control
- **Reduce/Eliminate Exposure:**
 - Property acquisition
- **Reduce Vulnerability:**
 - Retrofit existing structures
- **Increase Capability:**
 - Preparation, technical assistance, planning, enforcement





Using your Mitigation Strategy to Reduce Risk

- What is a *Mitigation Strategy*?
 - A group of projects or actions to reduce the impacts of the hazards of concern on your community
- Terms to describe the *Mitigation Strategy* include:
 - *Mitigation Action Plan or Action Plan*
 - *Mitigation Projects or Initiatives or Actions*

Your Mitigation Strategy table is included in your annex of the plan. **ONE** action is required for each identified Hazard of Concern in your community.



FEMA Mitigation Action Types



Plans and regulations include government authorities, policies, or codes that encourage risk reduction, such as building codes and state planning regulations. This may also include planning studies.



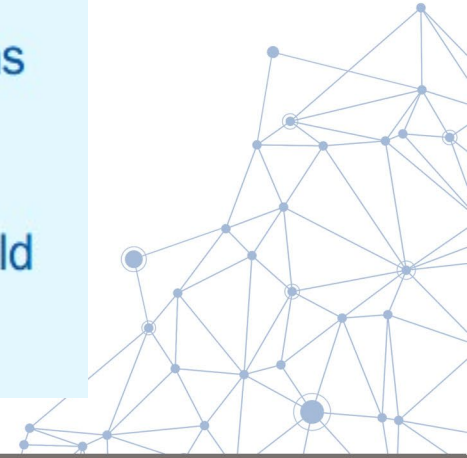
Structure and infrastructure projects involve modifying existing structures and infrastructure or constructing new structures to reduce the impact of hazards.



Natural systems protection projects minimize losses while also preserving or restoring the function of natural systems.



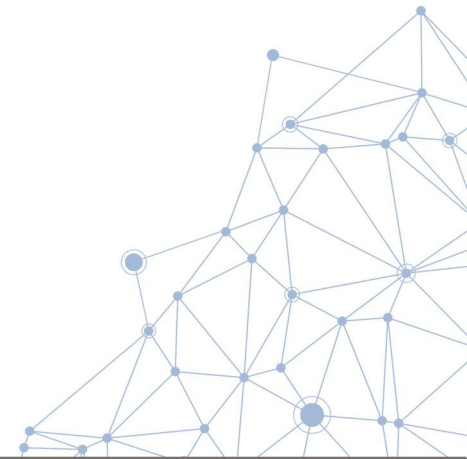
Education and awareness programs include long-term, sustained programs to inform and educate citizens and stakeholders about hazards and mitigation options. This category could also include training.





NYS Requirements for Mitigation Strategy Update

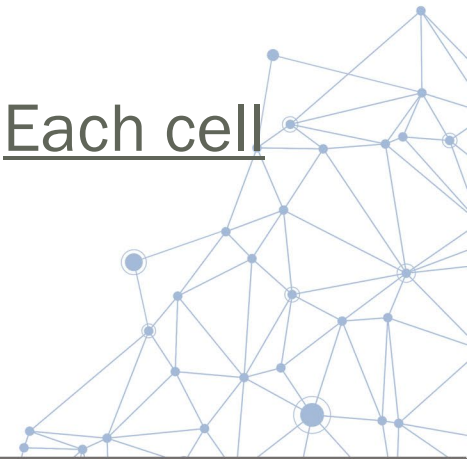
- If jurisdiction has a regulatory floodplain, then one worksheet must address flooding
 - [if the jurisdiction has Repetitive and Severe Repetitive Loss Properties - it is good practice to include action with details (street or neighborhood names)]
- Critical facilities in the 100-year floodplain – must be protected to the 500-year flood event
 - If already protected, we must note how
 - If not protected, a mitigation action must be developed
- Plan for Climate Change and propose actions to address





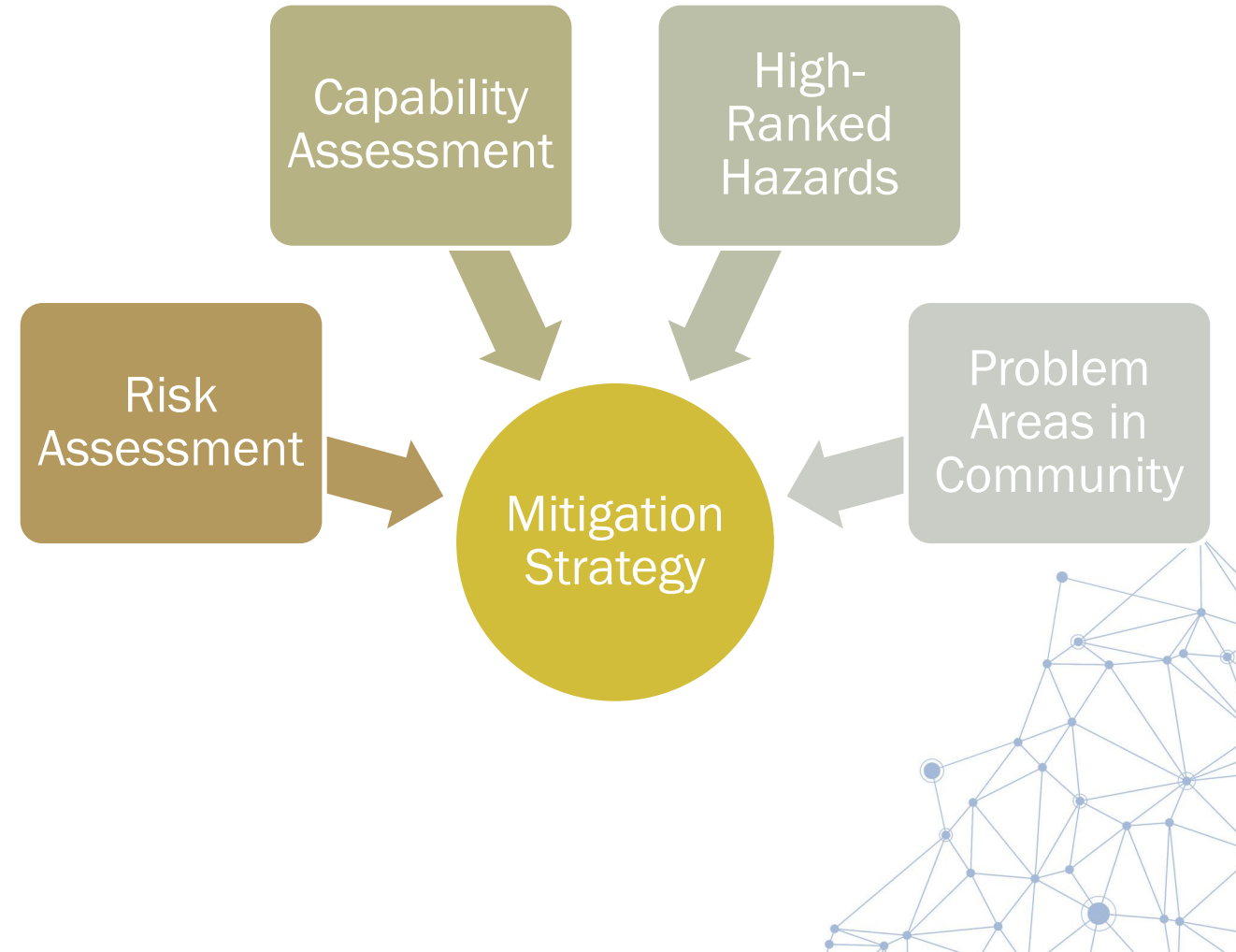
NYS Requirements for Mitigation Strategy Update

- Proposed actions MUST have specific information identified including:
 - Project lead
 - Estimated cost
 - Timeline
 - Whether the action involves a critical facility
- All required items are identified within the proposed action table. Each cell of the table MUST be filled out!



Connecting to the Mitigation Strategy

- Need a clear connection between vulnerability and proposed mitigation actions.
- Capability assessment provides insight into challenges/opportunities for the mitigation strategy as well.
- Provides the factual basis for activities proposed in the mitigation strategy.



Mitigation Development Worksheet

- ✓ *This is part of your risk ranking worksheet.*
- ✓ Information provided will provide a basis for identifying mitigation projects to increase community safety and resilience during your meeting with Tetra Tech to develop your mitigation strategy
- ✓ Next steps:
 - ✓ *Schedule your annex meeting with your assigned Tetra Tech planner indicated in the email provided this week.*
 - ✓ *Complete the risk ranking worksheet and return to Tetra Tech before your annex meeting.*

Use Your Risk Ranking/Action Development Worksheet to Identify Mitigation Actions



Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review

Problem Statement Development

Utilizing the results gathered to date (i.e., risk assessment, capability assessment, identified problem areas, 2017 mitigation strategy), please review the identified problems and potential solutions and add anything that may be missing to inform your mitigation strategy development.

Risk Assessment

What is your hazard concern of greatest concern? Refer to your hazard ranking results on page 1 (ex: stormwater flooding, falling trees, power loss, etc.). Do you have any projects in mind to address that hazard?

Problem / High-Ranked Hazards	Solution
Flood	German St & Church St. bridge projects.

Critical Facilities - Backup Power

Please list critical facilities that require backup power. If you have specifics (size of the generator, potential cost, etc.), please provide that information as well.

Problem	Solution
Public Safety: Fire Dept. & Police Dept. currently has a generator to keep communication and facilities running	

Culverts - Undersized/In Need of Upgrade

Please indicate the location of any culverts or stormwater components in your community that are undersized or are damaged from past flood events. Then note if you would like to add a project to address any of these locations.

Problem	Solution
W. German & Church St. Bridge	Project has been engineered Village is seeking additional funding.



Hazard Mitigation Plan 2023 Update
Herkimer County, NY
Hazard Ranking Review

Flood Protection – Elevation or Buyout

Please identify any **repetitive loss areas**, homes, or neighborhoods that would benefit from elevation or buyout to prevent future flood damages. Then identify potential projects to provide flood protection (elevation, buyout, etc.)

Problem	Solution
North North/West & South/West areas of the Village	

Infrastructure Protection

Please identify roads and other infrastructure that needs protection from flooding, storms, etc. Provide any projects where you would like to include protection measures (elevate roadway, harden infrastructure, etc.)

Problem	Solution
Main entry/exit points for the Village	Storm drainage work

Outreach Projects

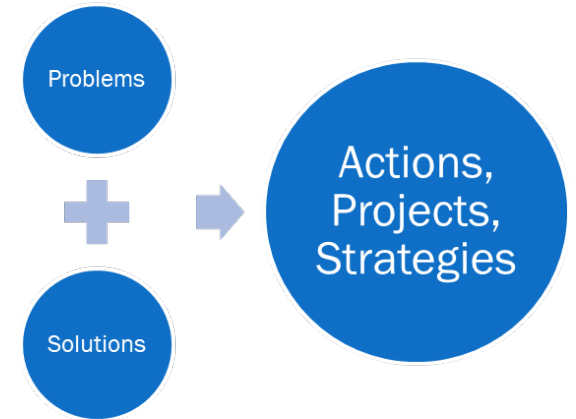
Please identify gaps in public awareness regarding hazards and identify any outreach projects that you would like to include in your mitigation strategy.

Problem	Solution
Dissemination of emergency information to the public	LED signage at Village, Police & Fire Station complex.

Other Projects

Please identify other projects that you have in mind after reviewing your problem statements, past actions, risk assessment results, and the mitigation catalog.

Problem	Solution



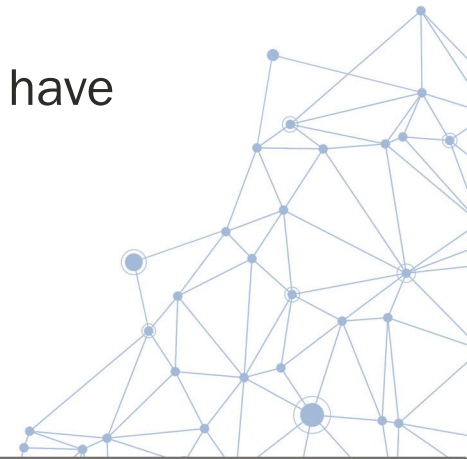


How do you fill in the Worksheet?

If you have not filled out and sent in your worksheet, do that before you schedule your annex meeting with your Tetra Tech planner.

The worksheet asks a series of questions to help you think about vulnerabilities within your community.

- Critical Facilities/Lifelines – backup power
- Critical Facilities/Lifelines – flood protection
- Culverts – undersized/in need of upgrades
- Flood Protection – elevations/buyouts; think about the RL/SRL properties – if you have RL/SRLs you need an action related to this
- Infrastructure Protection – what needs protection from flooding, storms, etc.?
- Anything else?





How do you use the Worksheet?

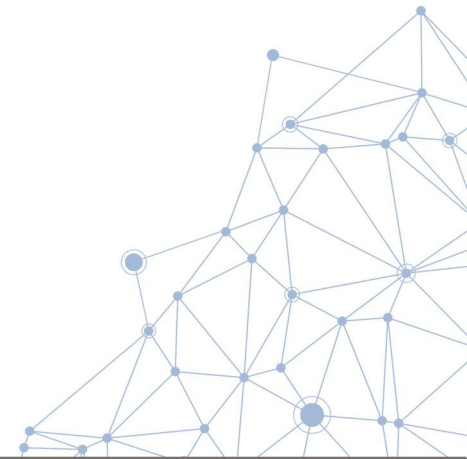
- Review the information on your worksheet
 - Identified problems and problem areas
 - Critical facilities in need of back-up power
 - Input from public/stakeholder surveys
 - Risk assessment results
- Add as much detail as possible to the problems and develop detailed solutions
- Your Tetra Tech planner will use this to assist in developing mitigation actions or projects during your annex development meeting

Schedule your annex meeting with your Tetra Tech planner ASAP!



What are we focusing on for our mitigation strategy?

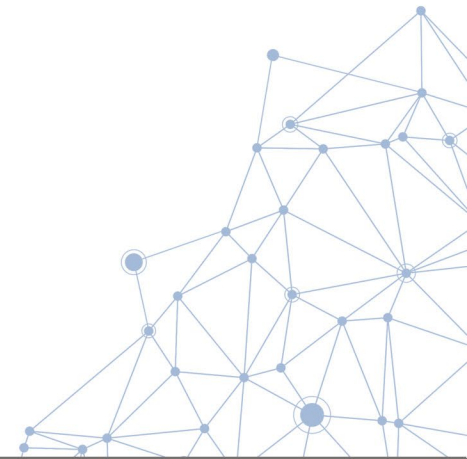
- **Stronger connection between the risk assessment and mitigation strategy**
 - At least one action is needed to address each hazard of concern
- **More specific actions**
 - Specific projects, in specific locations, in a specific timeframe
- **Diverse actions**
 - Include a variety in the types of actions





Update the Mitigation Strategy

- Review our Goals and Objectives
- Start with Problems (many identified on your Worksheets)
 - Areas that have been impacted by hazard events
 - Recurring issues
 - Critical/Lifeline facilities in the floodplain
 - RL/SRL properties need mitigating
 - Evacuation routes and sheltering needs

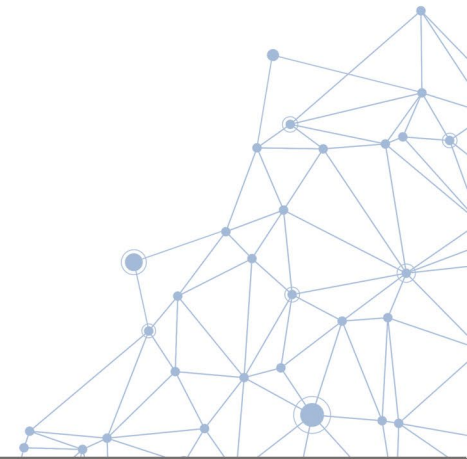




Update the Mitigation Strategy

- Identify New Mitigation Actions/Projects
- Modify 'Carry-Over' projects from the previous HMP -more specific or address different aspect of original problem

Quality Over Quantity!!



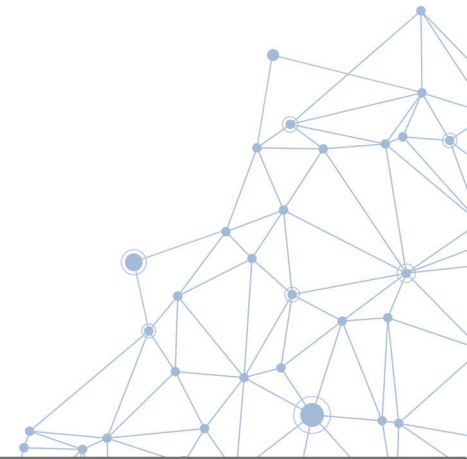
Making Previous Actions More Specific





Why we must update our actions...

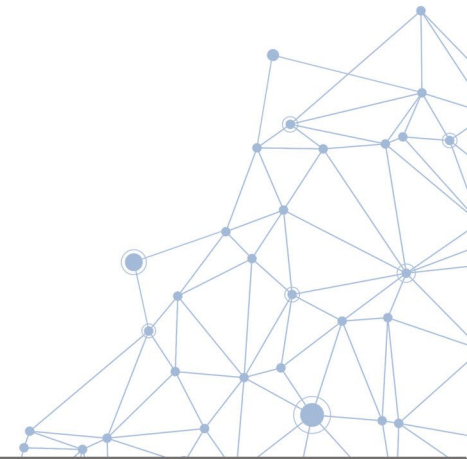
- Actions in the previous plan often were general and did not include detailed information.
- Detailed information is needed to support FEMA grant applications for funding support.
- Focus on updating previous actions to include the necessary level of detailed information.
- If detailed information is not available, note a phase in the action that will gather this information such as an engineering study or feasibility assessment.
- Use the same level of detail for new actions as well!





Example: Previous problem and action

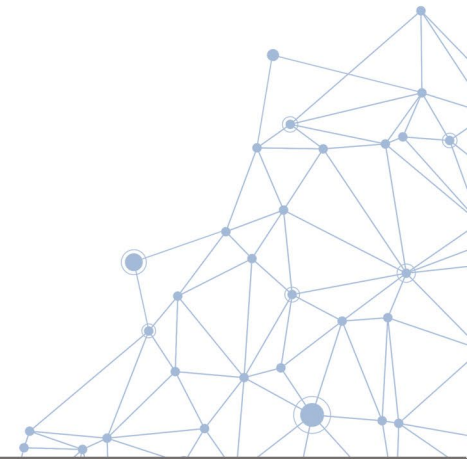
- **Problem:** Critical facilities require backup power.
- **Solution:** Acquire backup power for critical facilities.





Example: Improved problem and action

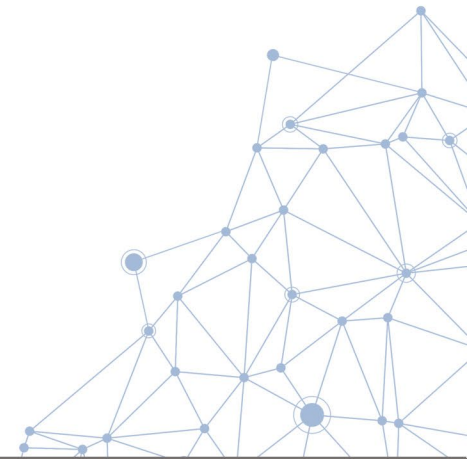
- **Problem:** Town Hall lacks a backup power source. The Town Hall houses the Emergency Operations Center and also can serve as a backup shelter. Lack of power results in a breakdown of continuity of operations and prevents the Town Hall from providing critical services during a hazard event.
- **Solution:** The Town Engineer will work with the Office of Emergency Management to research and purchase the appropriately sized backup generator for the Town Hall. The Town DPW will install the backup generator and necessary electrical components and will be responsible for testing and upkeep of the generator after installation.





Example: EVEN MORE Improved problem and action

- **Problem:** Town Hall lacks a backup power source. The Town Hall houses the Emergency Operations Center and also can serve as a backup shelter **for approximately 100 people**. Lack of power results in a breakdown of continuity of operations and prevents the Town Hall from providing critical services during a hazard event.
- **Solution:** The Town Engineer will work with the Office of Emergency Management to research and purchase **a 75 kW** generator for the Town Hall. The Town DPW will install the backup generator **on the roof of the Town Hall** and necessary electrical components and will be responsible for testing and upkeep of the generator after installation.



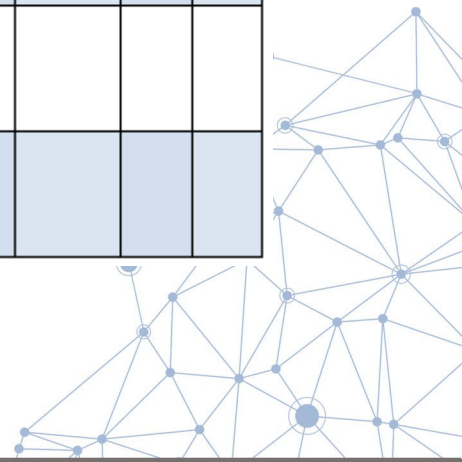
Proposed Action Table





Proposed Action Table

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2020-Muni-001				Problem:										
				Solution:										
2020-Muni-002				Problem:										
				Solution:										
2020-Muni-003				Problem:										
				Solution:										
2020-Muni-004				Problem:										
				Solution:										
2020-Muni-005				Problem:										
				Solution:										





Evaluation of Actions

- Consider the benefits and costs
- Consider the implementation timeline
- Consider the areas/problems of greatest need
- Consider the funding sources
- High/Medium/Low priority

1 = highlight effective or feasible

0 = neutral

-1 = ineffective or not feasible

Evaluation and Prioritization		
Project Name:		
Project Number:		
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
Total		
Priority (High/Med/Low)		



Important Actions

- **Municipalities with high hazard potential dams with a condition rating of unsafe or unsound** should include an action to address the deficiencies, using the High Hazard Potential Dam (HHPD) grant program for funding.
- **Municipalities with repetitive loss properties** need to include an action to address repetitive loss (elevation and/or acquisition).

High Hazard Potential Dam (HHPD) Worksheet
 A job aid for Municipalities Preparing /Amending Mitigation Plans¹
 Complete a Separate Worksheet for each² state regulated HHPD in your community.

Name of the Mitigation Plan:	Point of Contact for this Worksheet Name:
	Email:
Municipality where dam is located:	Name of Dam:
Name of the Dam Owner:	NYS Dam ID #:

Dams are critical infrastructure that can be impacted by natural hazards and if they fail to operate as designed, there could be cascading consequences downstream in the inundation area and potentially to a larger area if the use of the pooled reservoir is lost or diminished.

This worksheet, when completed, will:

1. Describe the process followed for assessing the risks to /from the identified high hazard potential dam located in the municipality.
2. Describe the risks to the dam from natural hazards, and from the dam should it fail to operate as designed.
3. Describe the mitigation plan goal that covers addressing the vulnerabilities to/from HHPDs.
4. Describe one or more planned mitigation actions / projects related to a high hazard potential dam, be it with a HHPD grant or other FEMA hazard mitigation grant programs.

This worksheet is designed to be placed in the annex of the municipality with jurisdiction over the area where the dam is located. Use of this worksheet will ensure no HHPD requirement has been overlooked for the dam being assessed. Completing worksheets for each of the HHPDs in the municipality will allow FEMA to quickly confirm the municipality has a hazard mitigation plan that included all dam risks.

It is highly recommended that when the dam owner is another municipality, the worksheet should also be added to the other municipality's mitigation plan. Doing so will ensure the other municipality meets Element B1-a and C4-b for approval of their mitigation plan under the Stafford Act requirements.

General or generic discussion of high hazard dams and their risks is welcomed content in a mitigation plan. However, it is not a substitute meeting HHPD requirements 1 thru 4, as covered by this worksheet.

¹ Source: Local Mitigation Planning Policy Guide (pages 34-35 and 57), Released April 19, 2022

² This change, to include all state regulated HHPDs, per the Policy Guide went into effect with the release of the release of the Rehabilitation of High Hazard Potential Dams Grant Program Fiscal Year 2022 Notice of Funding Opportunity.

1



Schedule

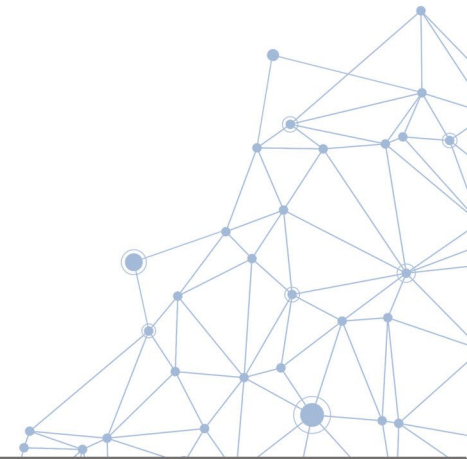
- Complete Mitigation Development Worksheet and Schedule Meeting with your Tetra Tech Planner before May 27th
- Work with Tetra Tech Planner to Complete Actions and Annex following meeting
- Draft Plan to Steering Committee by middle of May
- Final draft plan to NYS DHSES and FEMA – August/September 2023



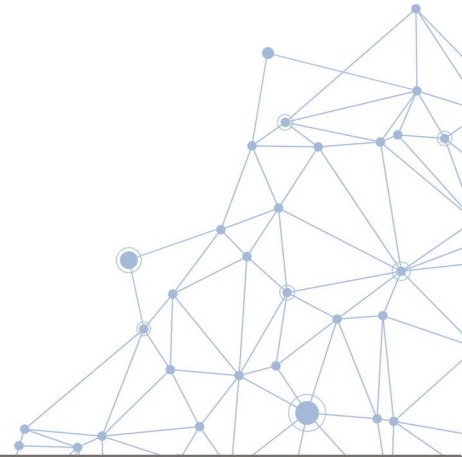


Next Steps

- Continue Public Involvement
 - Update elected officials and public on municipal website and at community meetings
- Mitigation Strategy
 - Develop mitigation strategy/actions: April to May 2023



Questions?



Herkimer County Emergency Services Project Contacts

John J. Raymond, Director
jraymond@herkimercounty.org

Robert Vandawalker,
rvandawalker@herkimercounty.org

Tetra Tech Project Contacts

Cynthia Addonizio-Bianco, Project Manager
(973) 630-8044 | cynthia.bianco@tetrattech.com

Erika Corsi, Planner
(973) 630-8031 | erika.corsi@tetrattech.com

Heather Apgar, CFM, Lead Planner
(973) 630-8046 | heather.apgar@tetrattech.com

Jessica Stokes, Planner
973-630-8017 | jessica.stokes@tetrattech.com
Emily Vassallo, Planner
(717) 545-3580 | Emily.Vassallo@tetrattech.com

Thank
You!



APPENDIX D. PUBLIC AND STAKEHOLDER OUTREACH

This appendix provides documentation of public and stakeholder outreach. Stakeholder involvement in this planning process was broad and productive as discussed and further documented in Section 3 (Planning Process). Public and stakeholder input has been incorporated throughout this HMP as appropriate, as identified in Section 3 and the References section, as well as within specific mitigation initiatives identified within the jurisdictional annexes (Section 9). Respondent feedback filtered by jurisdiction is included in each jurisdictional annex as available to provide an indication of community resident concerns related to natural hazards.

D.1 HERKIMER COUNTY CITIZEN SURVEY RESULTS

This section contains information and results gathered from the Herkimer County Citizen Survey. The main objective of this survey was to gather information from citizens regarding their level of knowledge regarding hazard vulnerability and knowledge of hazard mitigation information for their local communities. Over 185 respondents completed this survey over a period of six months during the planning process. The survey was available on Herkimer County website and the HMP website at: <https://www.Herkimercountynyhmp.com>. The survey results are provided in the following pages, with personal information redacted.



Herkimer County Hazard Mitigation Plan Update - Public Survey

Herkimer County, along with its communities, is in the process of updating the Hazard Mitigation Plan (HMP). This plan is required by the Federal Emergency Management Agency (FEMA) in order to be eligible for federal grant funding for public and private mitigation projects.

The HMP will provide a “blueprint” by which local governments can make coordinated, cost-effective efforts towards reducing losses from natural hazards (flooding, severe storms, severe winter storms, extreme temperatures, etc.). More information about this planning process and additional mitigation resources may be found at the Herkimer County HMP website at <https://www.herkimercountynyhmp.com/>

The following survey is designed to help identify general needs for mitigation within the County from your perspective and identify specific projects that may be included in the mitigation plan.

Thank you in advance for your participation.



Natural Hazard Information

In this section, we are looking for your input on the types of natural hazards that impact Herkimer County and its residents. Please answer the following questions to help us understand the concerns throughout the county.

1. In the past 10 years, which of the following hazard events have you experienced in Herkimer County? Check all that apply.

- | | |
|---|--|
| <input type="checkbox"/> Avalanche | <input type="checkbox"/> Geologic (landslide, sinkholes, subsidence) |
| <input type="checkbox"/> Climate Change (other than sea level rise) | <input type="checkbox"/> Invasive/Nuisance Species (harmful algal bloom, spotted lanternfly, etc.) |
| <input type="checkbox"/> Dam failure | <input type="checkbox"/> Pandemic |
| <input type="checkbox"/> Drought | <input type="checkbox"/> Severe Weather (tornado, thunderstorm, hail) |
| <input type="checkbox"/> Earthquake | <input type="checkbox"/> Severe Winter Storms (blizzard, heavy snow, ice) |
| <input type="checkbox"/> Extreme Temperature (heat and cold) | <input type="checkbox"/> Sea Level Rise |
| <input type="checkbox"/> Flooding - Street/Land | <input type="checkbox"/> Soil Hazards |
| <input type="checkbox"/> Flooding - Stormwater | <input type="checkbox"/> Transportation Accidents |
| <input type="checkbox"/> Flooding - Basement | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Flooding - 1st floor or above | <input type="checkbox"/> None |
| <input type="checkbox"/> Other (please specify) | |

2. How concerned are you about the following hazards in Herkimer County? Please check one for each hazard.

	Not Concerned	Somewhat Concerned	Concerned	Very Concerned	Extremely Concerned
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Climate Change (other than sea level rise)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Temperatures (heat and cold)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Street/Property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Stormwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Basement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - 1st Floor or above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geologic (landslide, sinkholes, subsidence)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Weather (high winds, lightning, hail)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storms (blizzard, heavy snow, ice)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sea Level Rise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil Hazards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transportation Accidents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Natural Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (please specify)

3. How do you receive your information concerning a disaster? Check all that apply.

- | | |
|--|---|
| <input type="checkbox"/> County Website | <input type="checkbox"/> TV Advertising |
| <input type="checkbox"/> Municipal Websites | <input type="checkbox"/> Radio News |
| <input type="checkbox"/> Newspaper | <input type="checkbox"/> Radio Advertisements |
| <input type="checkbox"/> Municipal E-Mail | <input type="checkbox"/> Outdoor Advertisements |
| <input type="checkbox"/> Police, Fire, EMS, 9-1-1 | <input type="checkbox"/> Internet |
| <input type="checkbox"/> Mass Notification System (e.g. NYAlert) | <input type="checkbox"/> Social Media |
| <input type="checkbox"/> Telephone Book | <input type="checkbox"/> Chamber of Commerce |
| <input type="checkbox"/> Informational Brochures | <input type="checkbox"/> Academic Institutions |
| <input type="checkbox"/> Public Meetings, Workshops, Public Awareness Events | <input type="checkbox"/> Books |
| <input type="checkbox"/> Schools | <input type="checkbox"/> Public Library |
| <input type="checkbox"/> TV News | |
| <input type="checkbox"/> Other (please specify) | |

4. In the past, has your home been damaged by a hazard event? For example, the basement of your home flooded and damaged the hot water heater.

- Yes
 No

Please explain the type of damage sustained and when it occurred.

5. If you answered 'yes' above, did you report the damages to your local police or fire departments or to an emergency management agency?

- Yes
 No

6. To the best of your knowledge, is your property located in a designated floodplain? If you do not know, [click here](#) to find out.

- Yes
 No

7. If your property is in the floodplain, do you have flood insurance?

- Yes
 No
 N/A

8. If your property is located outside of the floodplain, do you have flood insurance?

- Yes
- No
- N/A



Hazard Mitigation

FEMA defines hazard mitigation as any action taken to reduce the loss of life and property by lessening the impact of natural, technological, and man-made disasters. In this survey, when we refer to mitigation, it means to prevent future property damage. Mitigation activities can be taken to protect public/private property and infrastructure from hazard events such as floods, hurricanes, severe storms, and wildfires. The Herkimer County Hazard Mitigation Plan update process is designed to aid the County and its municipalities in protecting life and property from the impacts of future disasters.

9. Please identify any specific vulnerabilities that you are aware of in your city/town/village (e.g. floodprone areas or specific properties, critical facilities that lack backup power, etc.). Please list street names and other specific identifiers if possible.

10. Please identify any specific vulnerable areas outside of your city/town/village (e.g. floodprone areas or specific properties, critical facilities that lack backup power, etc.). Please list the city/town/village, street names, and other specific identifiers if possible.

11. What types of projects do you believe local, county, state, or federal government agencies could be doing to reduce the damage and disruption of disasters in Herkimer County? Select your top three choices.

- Retrofit and strengthen essential facilities such as police, schools, and hospitals
- Retrofit infrastructure, such as elevating roadways and improving drainage systems
- Work on improving the damage resistance of utilities (electricity, communications, water/wastewater facilities etc.)
- Install or improve protective structures, such as floodwalls, levees, bulkheads, and firebreaks
- Enhance stream maintenance programs/projects
- Replace inadequate or vulnerable bridges and causeways
- Strengthen codes, ordinances and plans to require higher hazard risk management standards and/or provide greater control over development in high hazard areas
- Buyout flood prone properties and maintain as open space
- Inform property owners of ways they can mitigate damage to their properties
- Improve access to information about hazard risks and high-hazard areas
- Assist vulnerable property owners with securing funding to mitigate their properties
- Create a stream gage and weather monitoring program to provide more accurate data and warnings

Other (please specify)

12. Do you have any other comments, questions, or concerns regarding hazard mitigation in Herkimer County?



General Household Information

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan. Please note that individual answers will not be published in the plan.

13. Please indicate the municipality in which you live:

- | | | |
|---|---|--|
| <input type="checkbox"/> Cold Brook (V) | <input type="checkbox"/> Ilion (V) | <input type="checkbox"/> Poland (V) |
| <input type="checkbox"/> Columbia (T) | <input type="checkbox"/> Litchfield (T) | <input type="checkbox"/> Russia (T) |
| <input type="checkbox"/> Danube (T) | <input type="checkbox"/> Little Falls (C) | <input type="checkbox"/> Salisbury (T) |
| <input type="checkbox"/> Dolgeville (V) | <input type="checkbox"/> Little Falls (T) | <input type="checkbox"/> Schuyler (T) |
| <input type="checkbox"/> Fairfield (T) | <input type="checkbox"/> Manheim (T) | <input type="checkbox"/> Stark (T) |
| <input type="checkbox"/> Frankfort (T) | <input type="checkbox"/> Middleville (V) | <input type="checkbox"/> Warren (T) |
| <input type="checkbox"/> Frankfort (V) | <input type="checkbox"/> Mohawk (V) | <input type="checkbox"/> Webb (T) |
| <input type="checkbox"/> German Flatts (T) | <input type="checkbox"/> Newport (T) | <input type="checkbox"/> West Winfield (V) |
| <input type="checkbox"/> Herkimer (T) | <input type="checkbox"/> Norway (T) | <input type="checkbox"/> Winfield (T) |
| <input type="checkbox"/> Herkimer (V) | <input type="checkbox"/> Ohio (T) | |
| <input type="checkbox"/> Other (please specify) | | |

14. How long have you lived here?

- | | |
|--|--|
| <input type="radio"/> Less than 1 year | <input type="radio"/> 10 to 19 years |
| <input type="radio"/> 1 to 5 years | <input type="radio"/> 20 years or more |
| <input type="radio"/> 6 to 9 years | |

15. Do you own or rent your place of residence?

- Own
 Rent

16. What type of residence do you live in?

- | | |
|--|---|
| <input type="radio"/> Single-family detached | <input type="radio"/> Condominium |
| <input type="radio"/> Multi-family detached | <input type="radio"/> Apartment Complex |
| <input type="radio"/> Town Home | <input type="radio"/> Commercial |
| <input type="radio"/> Other (please specify) | |

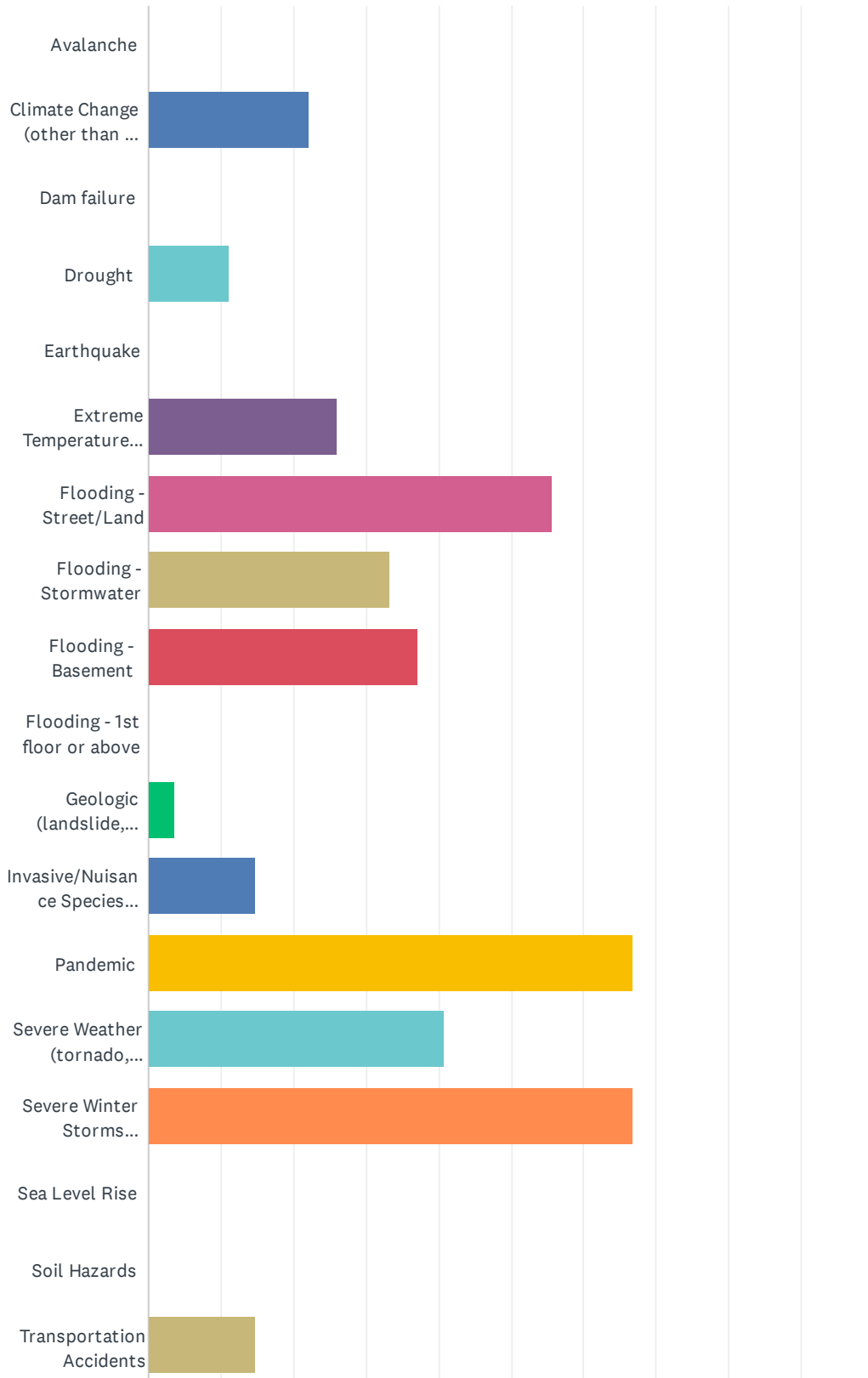
17. What street is your property on? (optional, will be kept confidential - only used to identify hazard areas such as flooding)

18. Please indicate your age range:

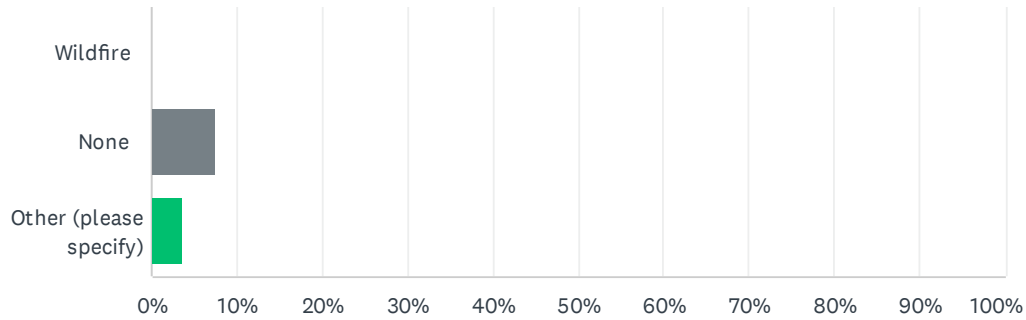
- | | |
|--------------------------------|--------------------------------|
| <input type="radio"/> Under 18 | <input type="radio"/> 41 to 50 |
| <input type="radio"/> 18 to 30 | <input type="radio"/> 51 to 60 |
| <input type="radio"/> 31 to 40 | <input type="radio"/> 61+ |

Q1 In the past 10 years, which of the following hazard events have you experienced in Herkimer County? Check all that apply.

Answered: 27 Skipped: 0



Herkimer County Hazard Mitigation Plan Update - Public Survey

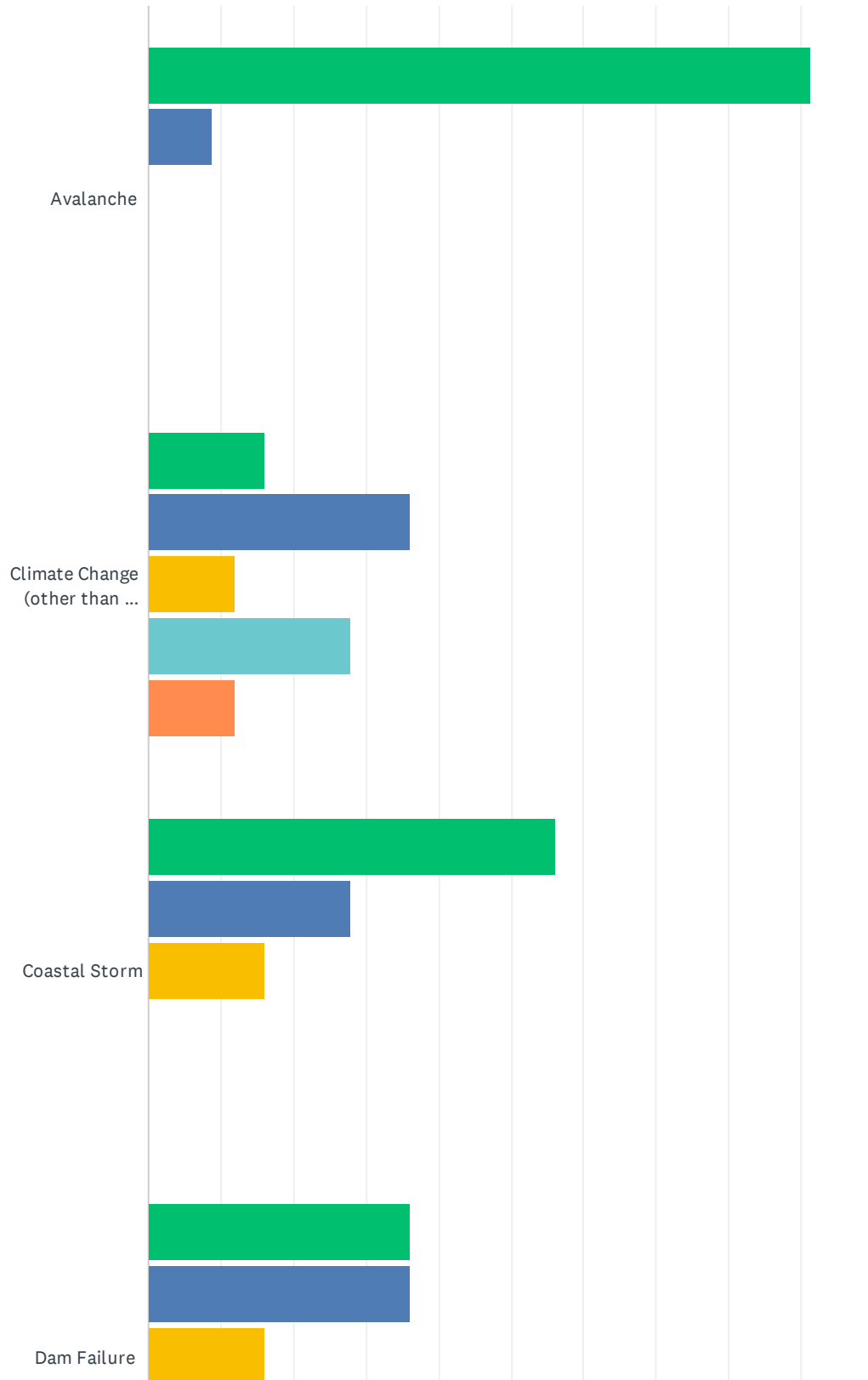


ANSWER CHOICES	RESPONSES	
Avalanche	0.00%	0
Climate Change (other than sea level rise)	22.22%	6
Dam failure	0.00%	0
Drought	11.11%	3
Earthquake	0.00%	0
Extreme Temperature (heat and cold)	25.93%	7
Flooding - Street/Land	55.56%	15
Flooding - Stormwater	33.33%	9
Flooding - Basement	37.04%	10
Flooding - 1st floor or above	0.00%	0
Geologic (landslide, sinkholes, subsidence)	3.70%	1
Invasive/Nuisance Species (harmful algal bloom, spotted lanternfly, etc.)	14.81%	4
Pandemic	66.67%	18
Severe Weather (tornado, thunderstorm, hail)	40.74%	11
Severe Winter Storms (blizzard, heavy snow, ice)	66.67%	18
Sea Level Rise	0.00%	0
Soil Hazards	0.00%	0
Transportation Accidents	14.81%	4
Wildfire	0.00%	0
None	7.41%	2
Other (please specify)	3.70%	1
Total Respondents: 27		

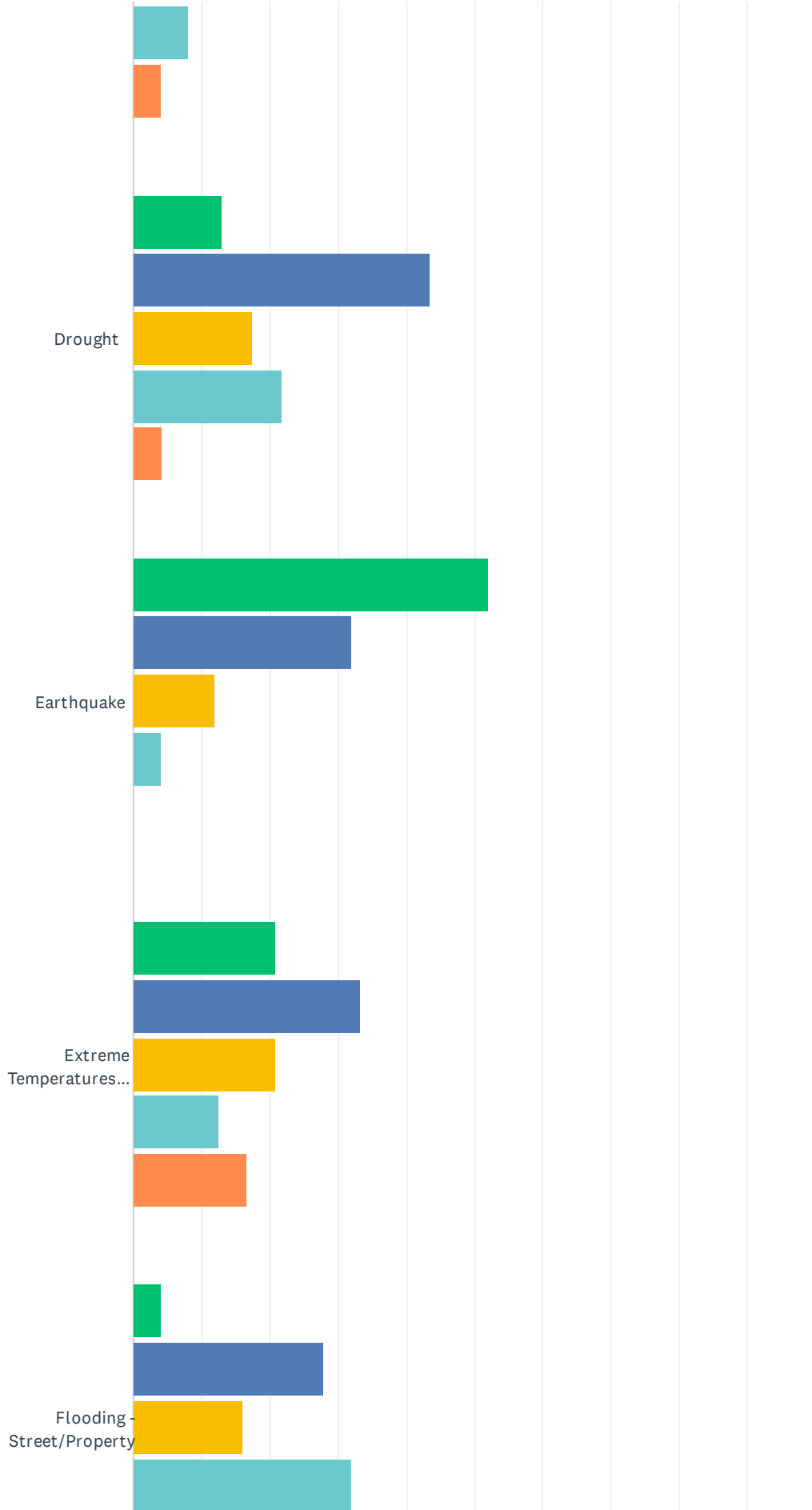
#	OTHER (PLEASE SPECIFY)	DATE
1	Frankfort/Schuyler bridge	12/3/2022 11:17 AM

Q2 How concerned are you about the following hazards in Herkimer County? Please check one for each hazard.

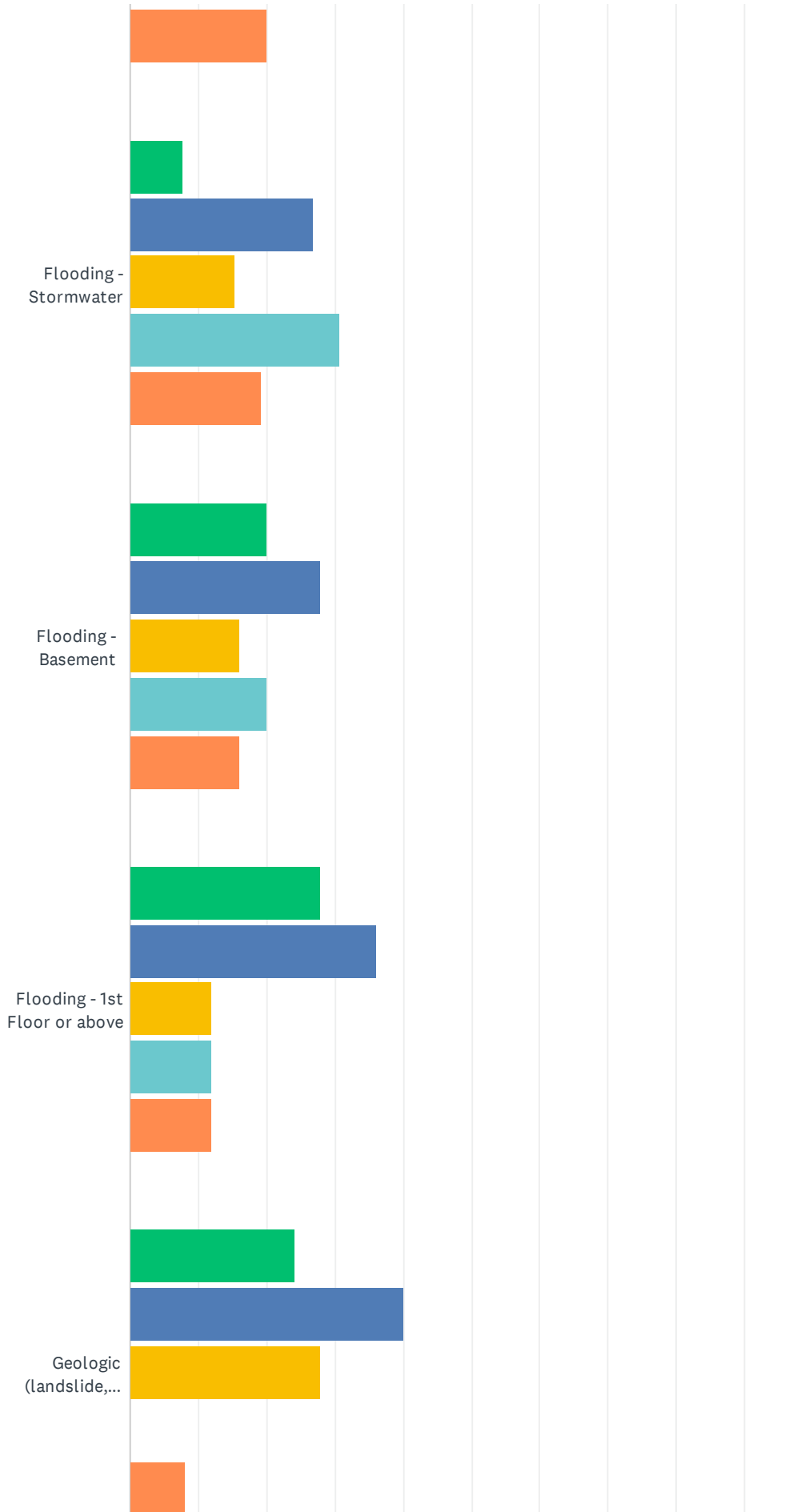
Answered: 27 Skipped: 0



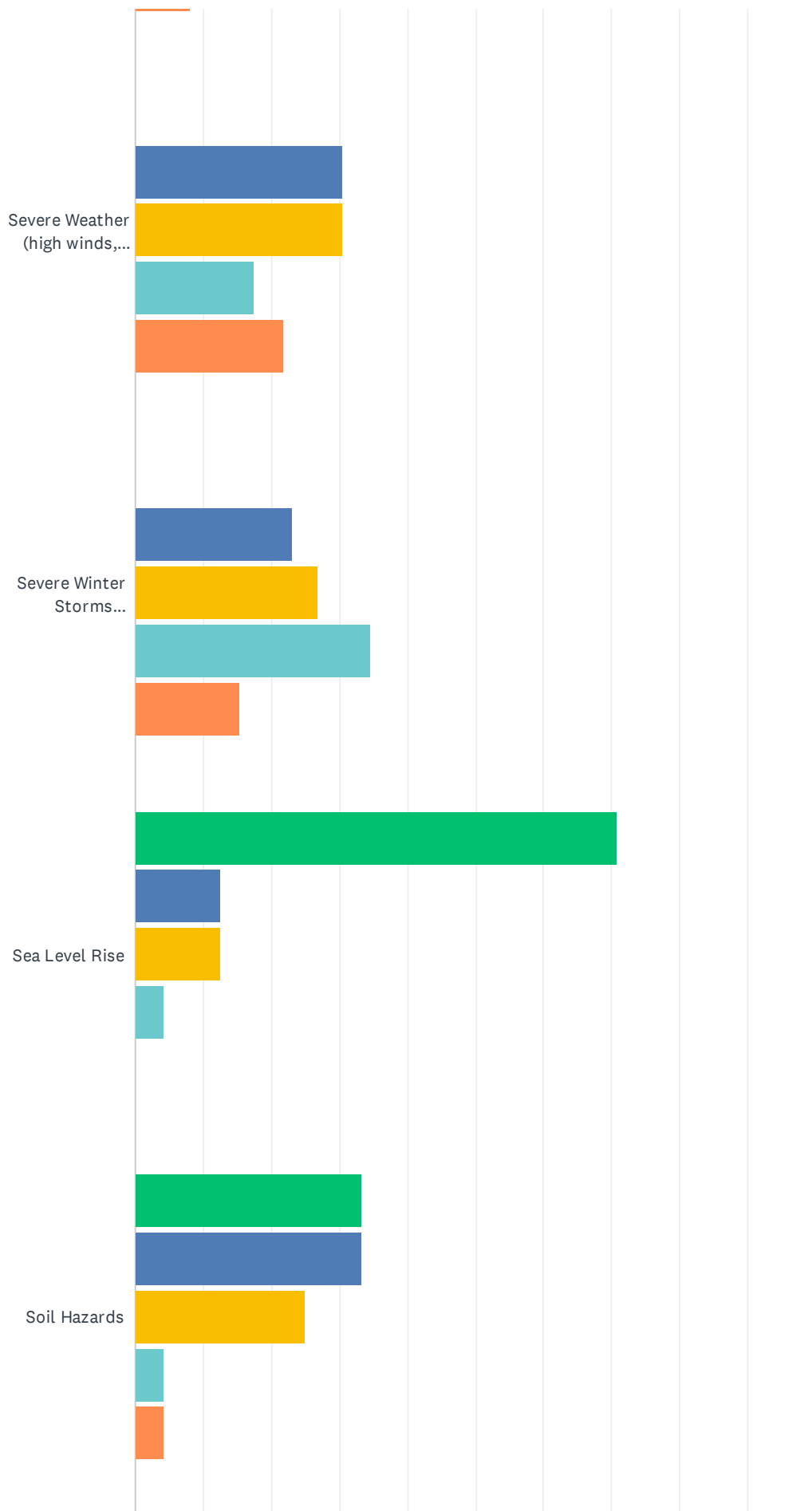
Herkimer County Hazard Mitigation Plan Update - Public Survey



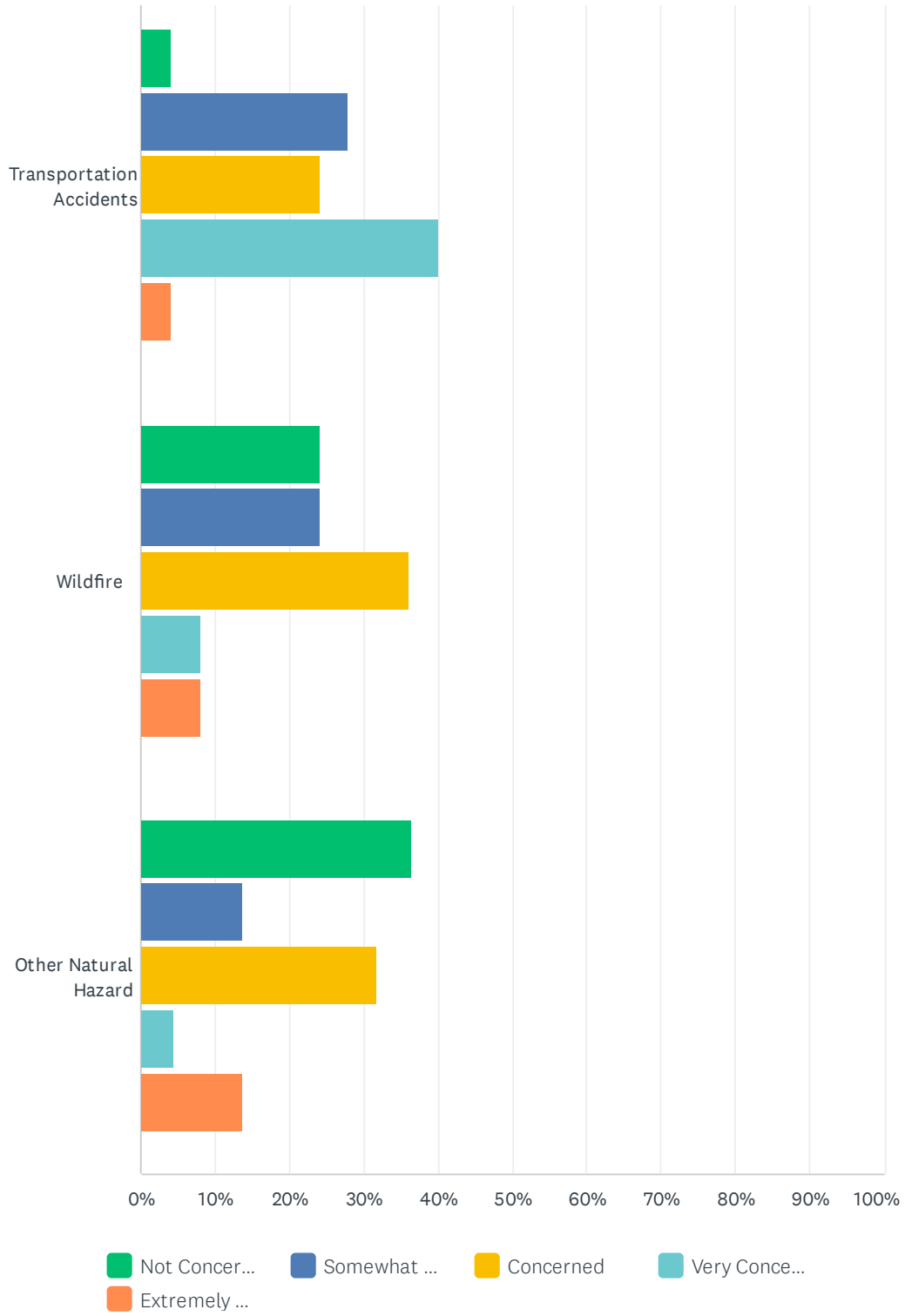
Herkimer County Hazard Mitigation Plan Update - Public Survey



Herkimer County Hazard Mitigation Plan Update - Public Survey



Herkimer County Hazard Mitigation Plan Update - Public Survey



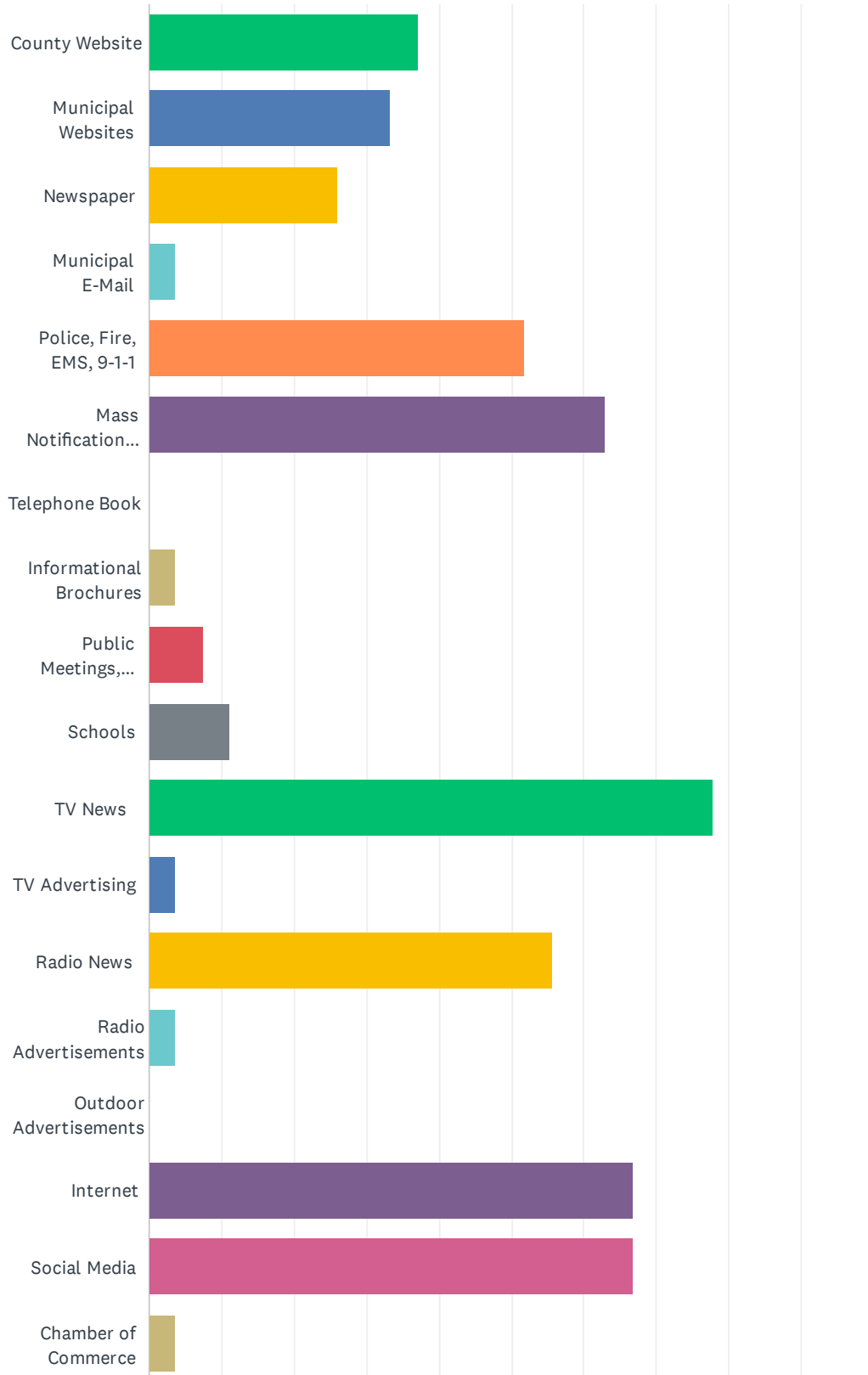
Herkimer County Hazard Mitigation Plan Update - Public Survey

	NOT CONCERNED	SOMEWHAT CONCERNED	CONCERNED	VERY CONCERNED	EXTREMELY CONCERNED	TOTAL RESPONDENTS
Avalanche	91.30% 21	8.70% 2	0.00% 0	0.00% 0	0.00% 0	23
Climate Change (other than sea level rise)	16.00% 4	36.00% 9	12.00% 3	28.00% 7	12.00% 3	25
Coastal Storm	56.00% 14	28.00% 7	16.00% 4	0.00% 0	0.00% 0	25
Dam Failure	36.00% 9	36.00% 9	16.00% 4	8.00% 2	4.00% 1	25
Drought	13.04% 3	43.48% 10	17.39% 4	21.74% 5	4.35% 1	23
Earthquake	52.00% 13	32.00% 8	12.00% 3	4.00% 1	0.00% 0	25
Extreme Temperatures (heat and cold)	20.83% 5	33.33% 8	20.83% 5	12.50% 3	16.67% 4	24
Flooding - Street/Property	4.00% 1	28.00% 7	16.00% 4	32.00% 8	20.00% 5	25
Flooding - Stormwater	7.69% 2	26.92% 7	15.38% 4	30.77% 8	19.23% 5	26
Flooding - Basement	20.00% 5	28.00% 7	16.00% 4	20.00% 5	16.00% 4	25
Flooding - 1st Floor or above	28.00% 7	36.00% 9	12.00% 3	12.00% 3	12.00% 3	25
Geologic (landslide, sinkholes, subsidence)	24.00% 6	40.00% 10	28.00% 7	0.00% 0	8.00% 2	25
Severe Weather (high winds, lightning, hail)	0.00% 0	30.43% 7	30.43% 7	17.39% 4	21.74% 5	23
Severe Winter Storms (blizzard, heavy snow, ice)	0.00% 0	23.08% 6	26.92% 7	34.62% 9	15.38% 4	26
Sea Level Rise	70.83% 17	12.50% 3	12.50% 3	4.17% 1	0.00% 0	24
Soil Hazards	33.33% 8	33.33% 8	25.00% 6	4.17% 1	4.17% 1	24
Transportation Accidents	4.00% 1	28.00% 7	24.00% 6	40.00% 10	4.00% 1	25
Wildfire	24.00% 6	24.00% 6	36.00% 9	8.00% 2	8.00% 2	25
Other Natural Hazard	36.36% 8	13.64% 3	31.82% 7	4.55% 1	13.64% 3	22

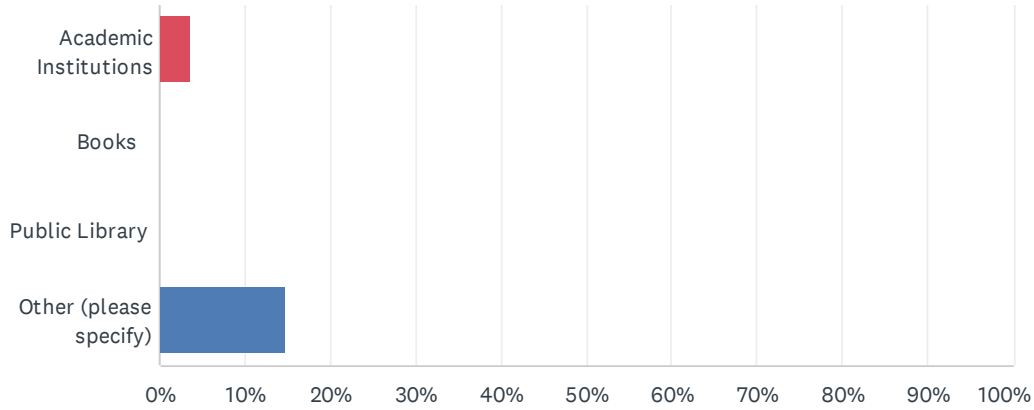
#	OTHER (PLEASE SPECIFY)	DATE
1	Flooding, Drought and Inland Inundation Flooding	1/6/2023 6:33 AM
2	Manufacturing malfunctions and pollution	12/14/2022 3:48 PM
3	Frankfort/Schuyler bridge (Railroad Street)	12/3/2022 11:17 AM

Q3 How do you receive your information concerning a disaster? Check all that apply.

Answered: 27 Skipped: 0



Herkimer County Hazard Mitigation Plan Update - Public Survey



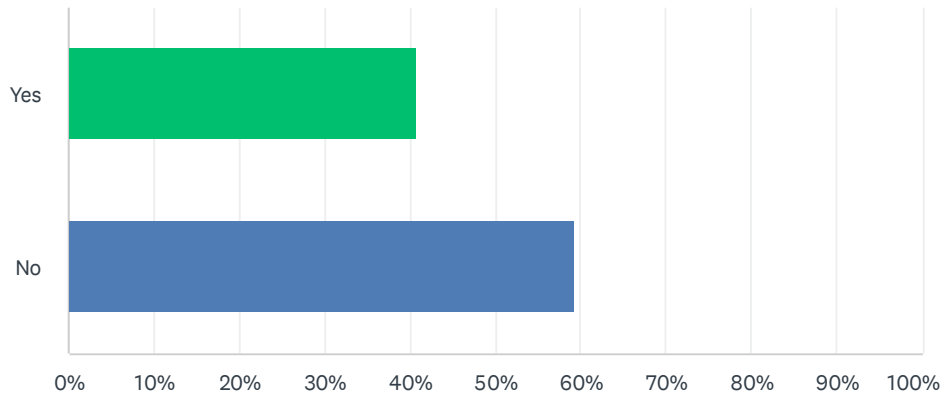
ANSWER CHOICES	RESPONSES	
County Website	37.04%	10
Municipal Websites	33.33%	9
Newspaper	25.93%	7
Municipal E-Mail	3.70%	1
Police, Fire, EMS, 9-1-1	51.85%	14
Mass Notification System (e.g. NYAlert)	62.96%	17
Telephone Book	0.00%	0
Informational Brochures	3.70%	1
Public Meetings, Workshops, Public Awareness Events	7.41%	2
Schools	11.11%	3
TV News	77.78%	21
TV Advertising	3.70%	1
Radio News	55.56%	15
Radio Advertisements	3.70%	1
Outdoor Advertisements	0.00%	0
Internet	66.67%	18
Social Media	66.67%	18
Chamber of Commerce	3.70%	1
Academic Institutions	3.70%	1
Books	0.00%	0
Public Library	0.00%	0
Other (please specify)	14.81%	4
Total Respondents: 27		

Herkimer County Hazard Mitigation Plan Update - Public Survey

#	OTHER (PLEASE SPECIFY)	DATE
1	Ring Notification	1/6/2023 9:54 AM
2	NYPA Canals supports the County. State Government	1/6/2023 6:33 AM
3	NOAA Radio	12/7/2022 7:07 PM
4	There seems to be very little info given to the public when natural disaster strikes particularly flooding and extreme snowfall. I shouldn't have to go outside and then realize it's not safe	11/30/2022 9:35 AM

Q4 In the past, has your home been damaged by a hazard event? For example, the basement of your home flooded and damaged the hot water heater.

Answered: 27 Skipped: 0

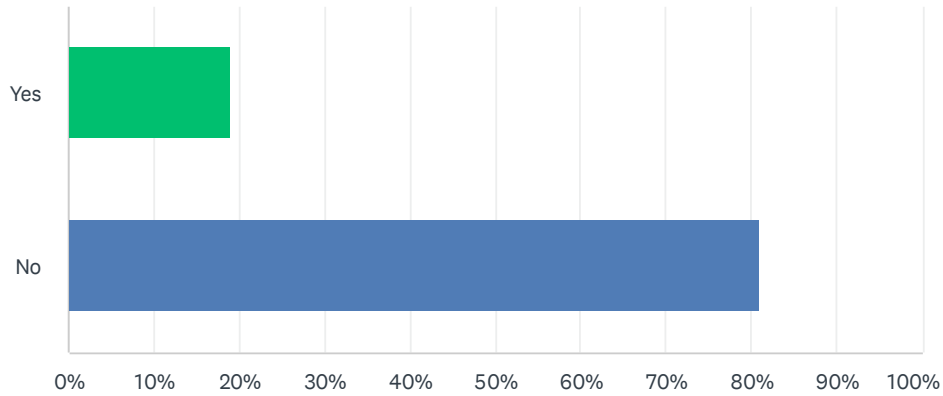


ANSWER CHOICES	RESPONSES
Yes	40.74% 11
No	59.26% 16
TOTAL	27

#	PLEASE EXPLAIN THE TYPE OF DAMAGE SUSTAINED AND WHEN IT OCCURRED.	DATE
1	The State Canal (Erie Canal) and multiple water impounding structures are within Herkimer County. We work closely with the County EM on hydrology/dam safety and emergency management.	1/6/2023 6:33 AM
2	Wind, rain damage during tropical storms	12/21/2022 7:46 AM
3	In the June 2013 flood we lost a freezer, a dehumidifier and household goods. In our cellar.	12/17/2022 9:13 AM
4	Basement flooded and lost furnace, hot water heater, washer/dryer and living area furniture and peripherals (computer, TV, etc.) during local flooding in 2014	12/14/2022 7:11 PM
5	Basement flood, several times in past 10 years	12/14/2022 7:03 PM
6	I forget, a few years back. Extinguished the pilot	12/14/2022 3:48 PM
7	may snowstorm have brought several trees	12/8/2022 12:24 PM
8	Extreme basement flooding and water pouring rough the foundation walls. Why do I have to spend vacation time (when I was still working) with a gallon of drylock plastering it on basement walls? Also a heavy late April Snow in 2022 caused my garage roof to collapse.	11/30/2022 9:35 AM
9	Basement flooding due to a storm drain not being properly cleaned	11/29/2022 7:41 PM
10	Basement flooding	10/19/2022 9:57 PM

Q5 If you answered 'yes' above, did you report the damages to your local police or fire departments or to an emergency management agency?

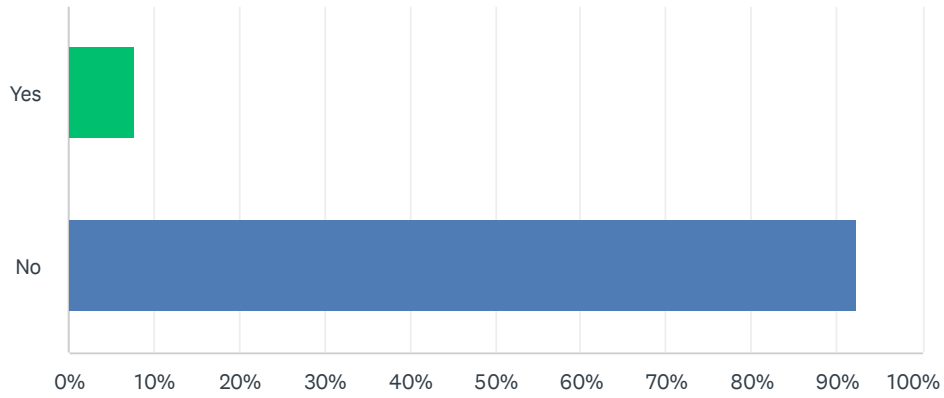
Answered: 21 Skipped: 6



ANSWER CHOICES	RESPONSES	
Yes	19.05%	4
No	80.95%	17
TOTAL		21

Q6 To the best of your knowledge, is your property located in a designated floodplain? If you do not know, click here to find out.

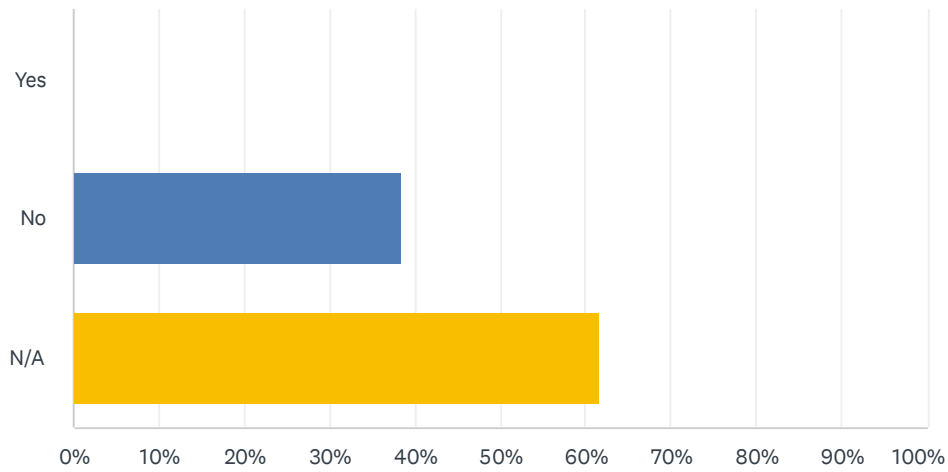
Answered: 26 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	7.69%	2
No	92.31%	24
TOTAL		26

Q7 If your property is in the floodplain, do you have flood insurance?

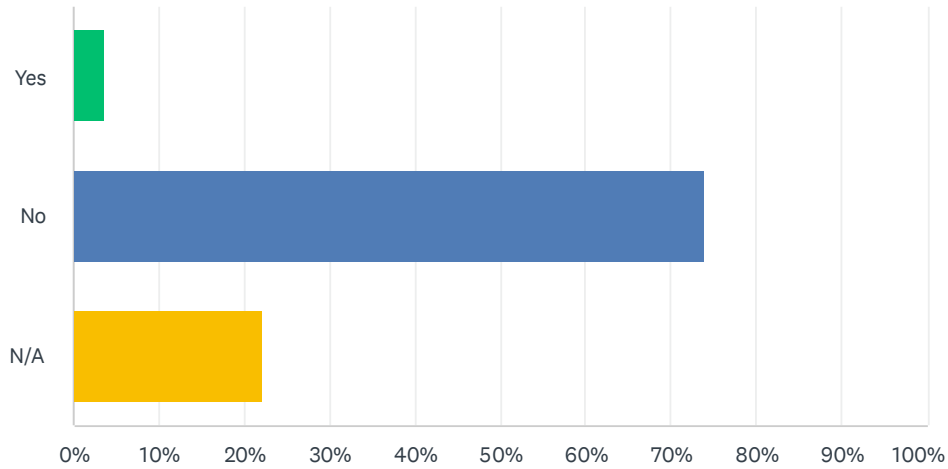
Answered: 26 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	38.46%	10
N/A	61.54%	16
TOTAL		26

Q8 If your property is located outside of the floodplain, do you have flood insurance?

Answered: 27 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	3.70%	1
No	74.07%	20
N/A	22.22%	6
TOTAL		27

Q9 Please identify any specific vulnerabilities that you are aware of in your city/town/village (e.g. floodprone areas or specific properties, critical facilities that lack backup power, etc.). Please list street names and other specific identifiers if possible.

Answered: 14 Skipped: 13

#	RESPONSES	DATE
1	Flooding along German Street, poor Stormwater drainage throughout Village of Herkimer	1/6/2023 9:56 AM
2	The State Canal and Water Impounding Structures.	1/6/2023 6:36 AM
3	Flooding of West Canada Creek at Poland fishing area and in village of Newport. Power outages happen frequently in the area.	12/21/2022 2:51 PM
4	Water and Elctric treatment utility plants	12/21/2022 7:48 AM
5	N/a	12/14/2022 7:07 PM
6	unknown	12/14/2022 5:05 PM
7	North Main Street in Dolgeville	12/14/2022 3:49 PM
8	Poland schools does not have a generator	12/14/2022 1:42 PM
9	unknown	12/14/2022 1:18 PM
10	From my perspective our biggest vulnerability in the valley is the location of the villages substations most of which are located near creeks or the river	12/8/2022 12:31 PM
11	This is not about flooding...but public safety! The Frankfort Schuyler bridge is in need of serious repair. WhyWhyWhy hasn't it been addressed?	12/3/2022 11:25 AM
12	Because the City of Little Falls is so hilly, the water frequently just cascades down the sidewalk like a small creek.	11/30/2022 9:39 AM
13	Culvert pipes too small or clogged. Not enough equipment or resources to attend to the needs of all who may be affected by a natural or other disaster. Space to help house people in the event of a disaster.	10/19/2022 10:02 PM
14	All streets along Steele Creek that runs thru the center of the village and anything within reach of the Mohawk River/Erie Canal	8/11/2022 9:50 AM

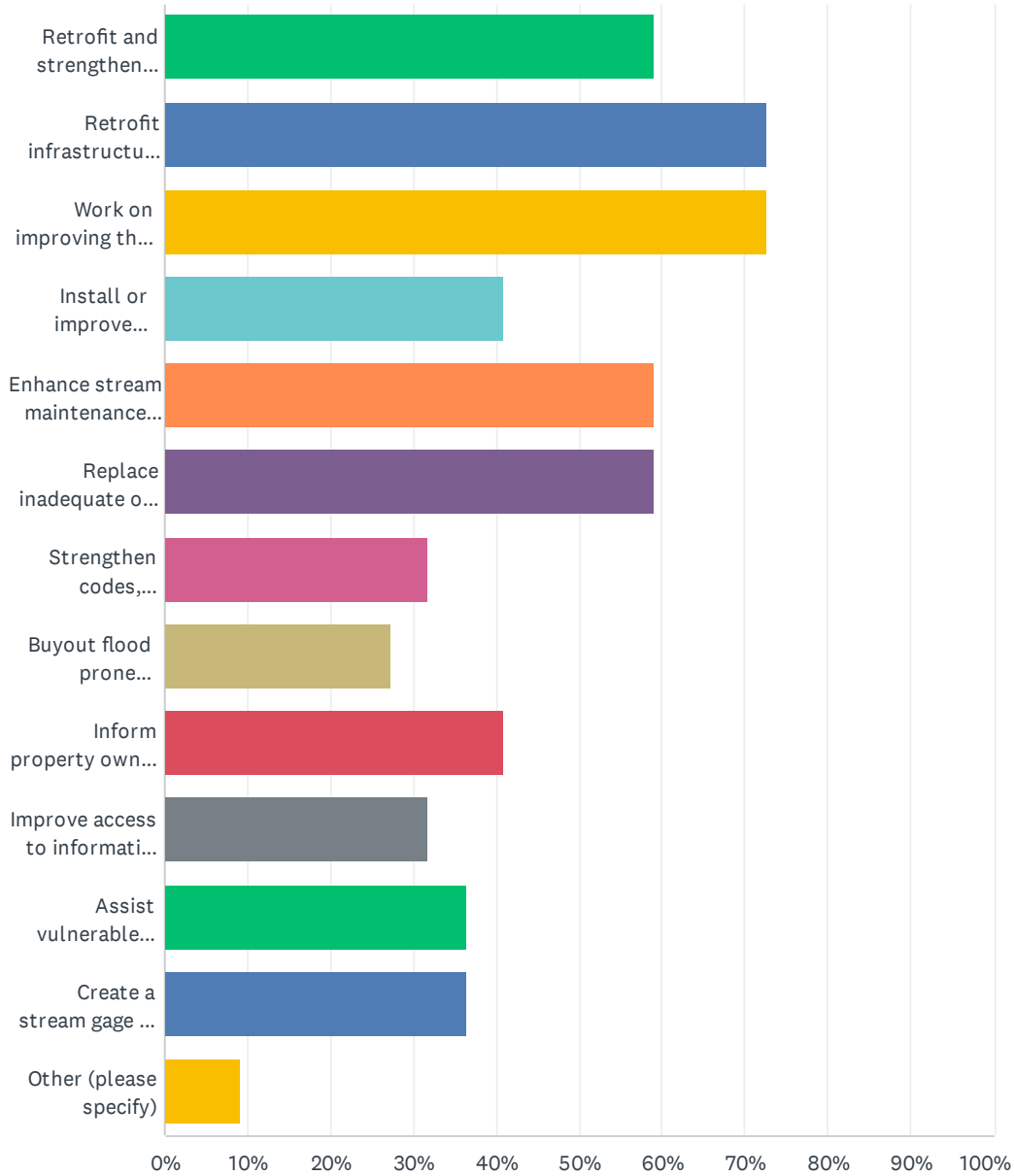
Q10 Please identify any specific vulnerable areas outside of your city/town/village (e.g. floodprone areas or specific properties, critical facilities that lack backup power, etc.). Please list the city/town/village, street names, and other specific identifiers if possible.

Answered: 9 Skipped: 18

#	RESPONSES	DATE
1	See Above	1/6/2023 6:36 AM
2	Unsure	12/14/2022 7:07 PM
3	unknown	12/14/2022 5:05 PM
4	West Canada Creek has major flooding every 3 to 5 years	12/14/2022 1:42 PM
5	unknown	12/14/2022 1:18 PM
6	Frankfort Schuyler bridge	12/3/2022 11:25 AM
7	I don't have any engineering background so can't really answer this question	11/30/2022 9:39 AM
8	Unsure	10/19/2022 10:02 PM
9	Village of Mohawk Village of Frankfort Village of Herkimer City of Little Falls Many other areas within Herkimer County limits	8/11/2022 9:50 AM

Q11 What types of projects do you believe local, county, state, or federal government agencies could be doing to reduce the damage and disruption of disasters in Herkimer County? Select your top three choices.

Answered: 22 Skipped: 5



Herkimer County Hazard Mitigation Plan Update - Public Survey

ANSWER CHOICES	RESPONSES	
Retrofit and strengthen essential facilities such as police, schools, and hospitals	59.09%	13
Retrofit infrastructure, such as elevating roadways and improving drainage systems	72.73%	16
Work on improving the damage resistance of utilities (electricity, communications, water/wastewater facilities etc.)	72.73%	16
Install or improve protective structures, such as floodwalls, levees, bulkheads, and firebreaks	40.91%	9
Enhance stream maintenance programs/projects	59.09%	13
Replace inadequate or vulnerable bridges and causeways	59.09%	13
Strengthen codes, ordinances and plans to require higher hazard risk management standards and/or provide greater control over development in high hazard areas	31.82%	7
Buyout flood prone properties and maintain as open space	27.27%	6
Inform property owners of ways they can mitigate damage to their properties	40.91%	9
Improve access to information about hazard risks and high-hazard areas	31.82%	7
Assist vulnerable property owners with securing funding to mitigate their properties	36.36%	8
Create a stream gage and weather monitoring program to provide more accurate data and warnings	36.36%	8
Other (please specify)	9.09%	2
Total Respondents: 22		

#	OTHER (PLEASE SPECIFY)	DATE
1	Community solar	12/14/2022 7:07 PM
2	If there is a buyout program utilized, the municipality needs to be able to sell that property, with language in the transfer that doesn't allow any building or structures to be placed on the property that is bought out. The municipalities are being hurt financially due to loss of tax revenue and that's causing major issues within these areas	8/11/2022 9:50 AM

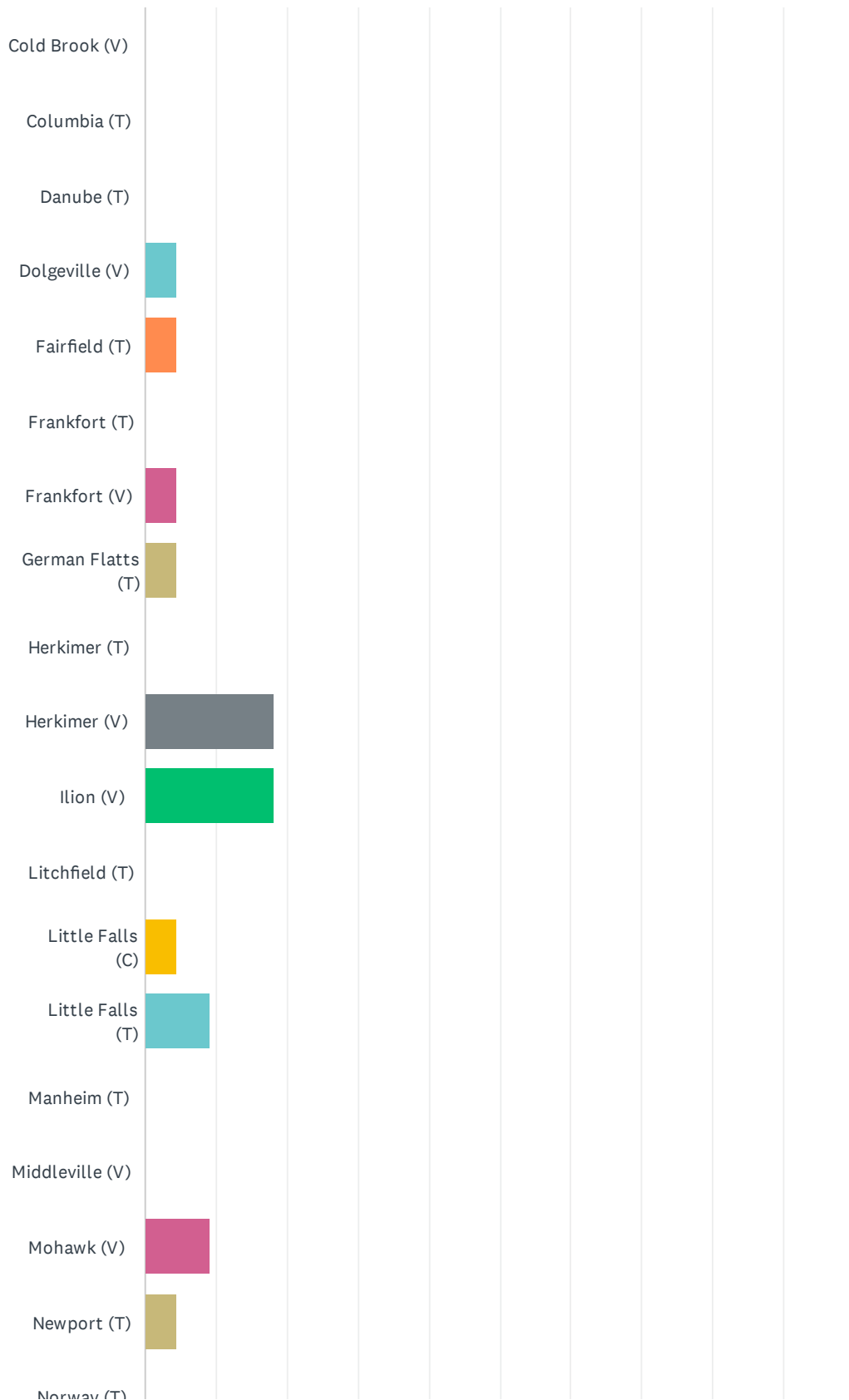
Q12 Do you have any other comments, questions, or concerns regarding hazard mitigation in Herkimer County?

Answered: 11 Skipped: 16

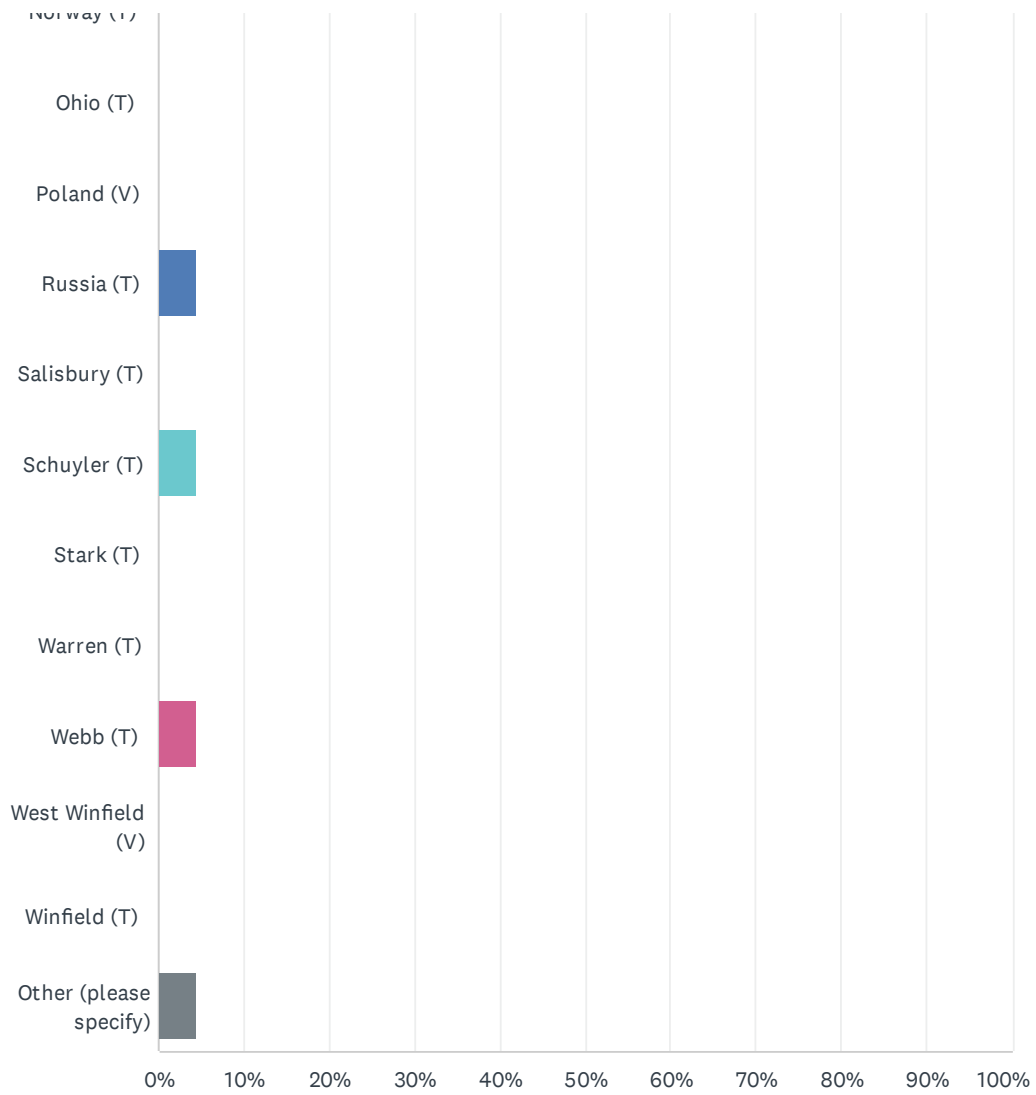
#	RESPONSES	DATE
1	We work closely with HCOEM available to discuss if required.	1/6/2023 6:36 AM
2	Not at this time	12/14/2022 7:07 PM
3	The link given for the Flood Map service lists Ilion as having " no digital data available."	12/14/2022 5:05 PM
4	No	12/14/2022 3:49 PM
5	No	12/14/2022 1:42 PM
6	no	12/14/2022 1:18 PM
7	No	12/7/2022 7:08 PM
8	Focus on the safety of the public...fix the Frankfort Schuyler Bridge!	12/3/2022 11:25 AM
9	No	11/30/2022 9:39 AM
10	No	10/19/2022 10:02 PM
11	no	7/14/2022 7:54 PM

Q13 Please indicate the municipality in which you live:

Answered: 22 Skipped: 5



Herkimer County Hazard Mitigation Plan Update - Public Survey



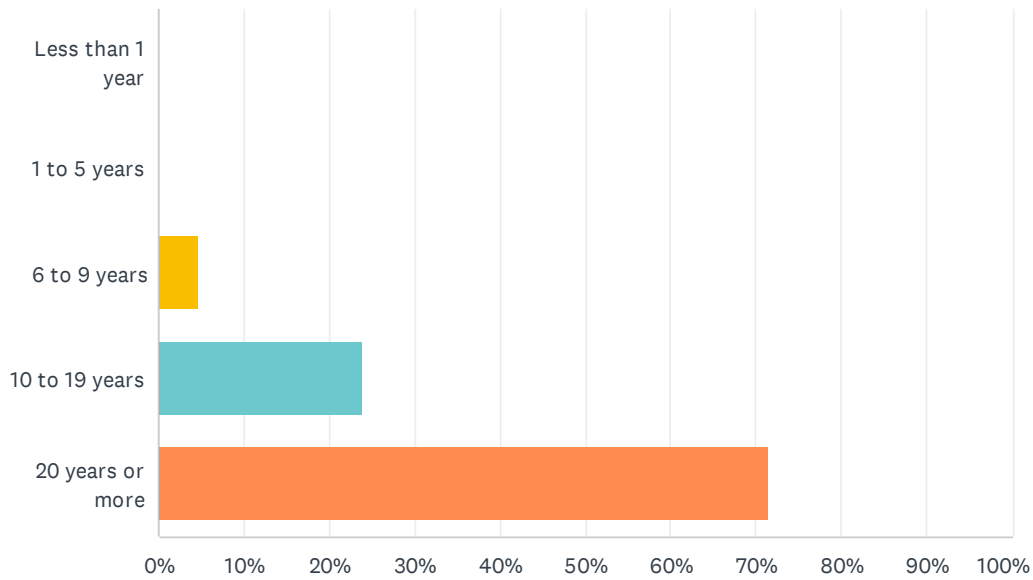
Herkimer County Hazard Mitigation Plan Update - Public Survey

ANSWER CHOICES	RESPONSES	
Cold Brook (V)	0.00%	0
Columbia (T)	0.00%	0
Danube (T)	0.00%	0
Dolgeville (V)	4.55%	1
Fairfield (T)	4.55%	1
Frankfort (T)	0.00%	0
Frankfort (V)	4.55%	1
German Flatts (T)	4.55%	1
Herkimer (T)	0.00%	0
Herkimer (V)	18.18%	4
Ilion (V)	18.18%	4
Litchfield (T)	0.00%	0
Little Falls (C)	4.55%	1
Little Falls (T)	9.09%	2
Manheim (T)	0.00%	0
Middleville (V)	0.00%	0
Mohawk (V)	9.09%	2
Newport (T)	4.55%	1
Norway (T)	0.00%	0
Ohio (T)	0.00%	0
Poland (V)	0.00%	0
Russia (T)	4.55%	1
Salisbury (T)	0.00%	0
Schuyler (T)	4.55%	1
Stark (T)	0.00%	0
Warren (T)	0.00%	0
Webb (T)	4.55%	1
West Winfield (V)	0.00%	0
Winfield (T)	0.00%	0
Other (please specify)	4.55%	1
Total Respondents: 22		

#	OTHER (PLEASE SPECIFY)	DATE
---	------------------------	------

Q14 How long have you lived here?

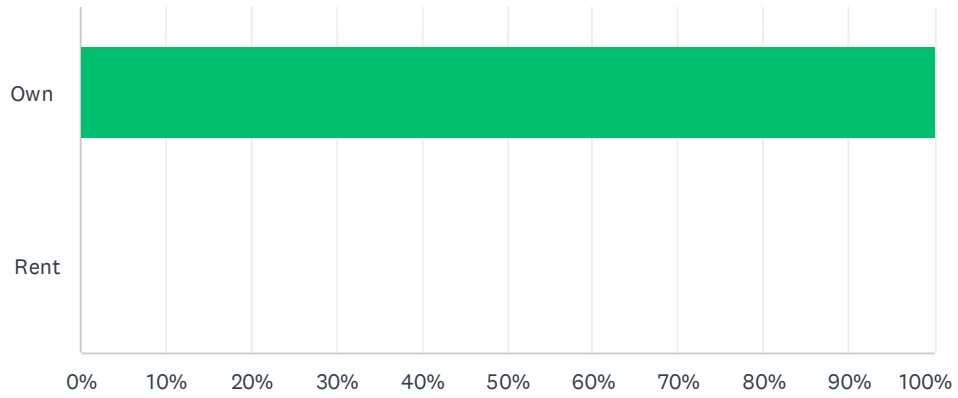
Answered: 21 Skipped: 6



ANSWER CHOICES	RESPONSES	
Less than 1 year	0.00%	0
1 to 5 years	0.00%	0
6 to 9 years	4.76%	1
10 to 19 years	23.81%	5
20 years or more	71.43%	15
TOTAL		21

Q15 Do you own or rent your place of residence?

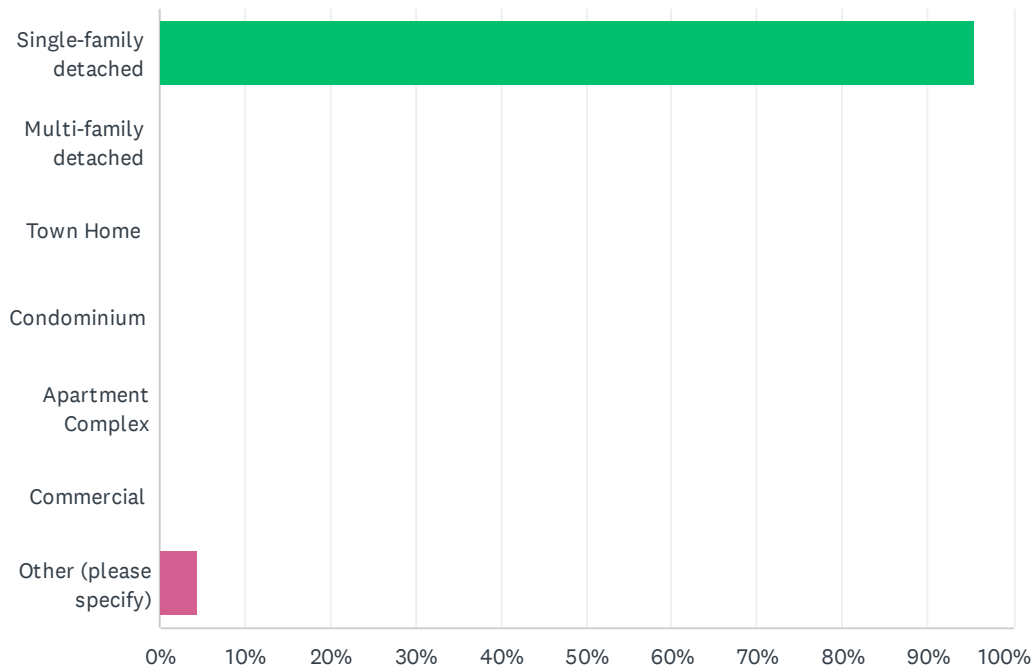
Answered: 21 Skipped: 6



ANSWER CHOICES	RESPONSES	
Own	100.00%	21
Rent	0.00%	0
TOTAL		21

Q16 What type of residence do you live in?

Answered: 22 Skipped: 5



ANSWER CHOICES	RESPONSES	
Single-family detached	95.45%	21
Multi-family detached	0.00%	0
Town Home	0.00%	0
Condominium	0.00%	0
Apartment Complex	0.00%	0
Commercial	0.00%	0
Other (please specify)	4.55%	1
TOTAL		22

#	OTHER (PLEASE SPECIFY)	DATE
1	State Infrastructure	1/6/2023 6:38 AM

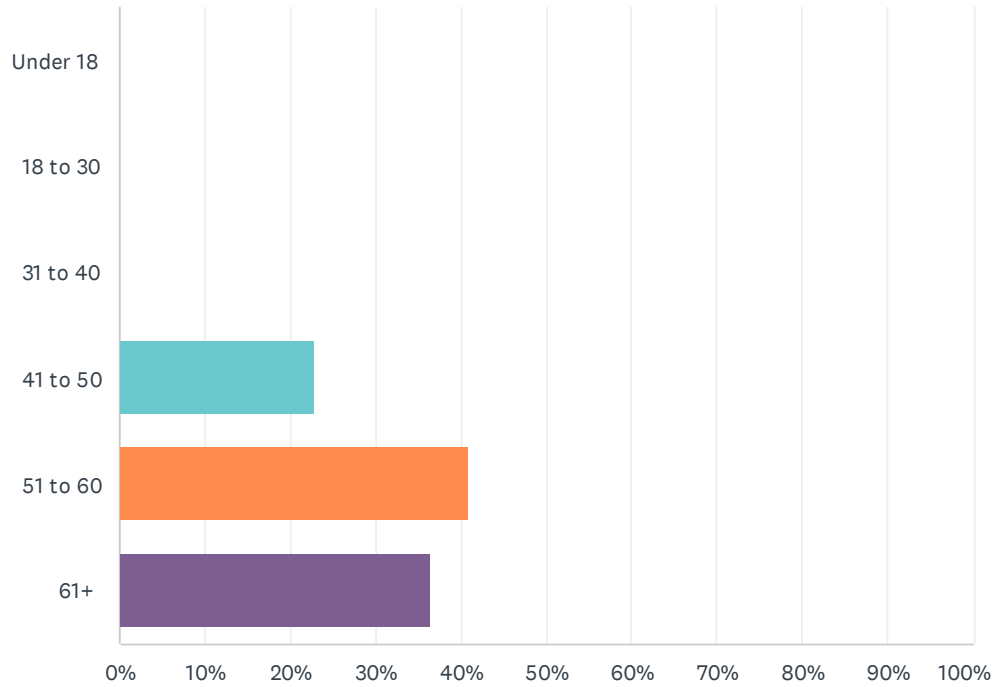
Q17 What street is your property on? (optional, will be kept confidential - only used to identify hazard areas such as flooding)

Answered: 17 Skipped: 10

#	RESPONSES	DATE
---	-----------	------

Q18 Please indicate your age range:

Answered: 22 Skipped: 5



ANSWER CHOICES	RESPONSES	
Under 18	0.00%	0
18 to 30	0.00%	0
31 to 40	0.00%	0
41 to 50	22.73%	5
51 to 60	40.91%	9
61+	36.36%	8
TOTAL		22



D.2 STAKEHOLDER SURVEYS

In addition to collecting information from residents of Herkimer County, surveys were developed for the agencies and stakeholders in the county. Unlike steering committee or planning partnership members, stakeholders may not be involved in all stages of the planning process, but they may have information or input to provide. In order to gather that information, the surveys were sent to the following stakeholders: law enforcement, firefighters, emergency medical services, highway and public works, business and commerce, hospitals and health care providers, and utilities. Results of the surveys are provided in the following pages, with personal information redacted.



Herkimer County Hazard Mitigation Plan - Stakeholder Survey

Herkimer County, along with its cities, towns, and villages, are in the process of updating the Hazard Mitigation Plan (HMP) in order to be eligible for federal grant funding for public and private mitigation projects. The HMP provides a “blueprint” by which participating jurisdictions can make coordinated, cost-effective efforts towards reducing losses from natural and human-caused disasters.

The following survey is designed to help identify general needs for hazard mitigation and resiliency within Herkimer County from your perspective, as well as to identify specific projects that may be included in the mitigation plan. Given the current COVID-19 pandemic, there are questions specific to this hazard at the end of the survey to help inform future decision making.

Please take a few minutes to answer the following questions and provide feedback on potential mitigation that affects your assets, infrastructure, and/or services within Herkimer County. Provide as much details as possible to support your choice in the comments box. Where possible, identify specific areas that need to be improved and your suggestions for possible improvements. If there are other important issues that you feel are not covered by this survey.

More information about this planning process and additional mitigation resources may be found at the Herkimer County HMP website by going to: <https://www.herkimercountynyhmp.com/>

Thank you for supporting the update of this planning process!



Herkimer County Hazard Mitigation Plan - Stakeholder Survey

General Information

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan. Please note that individual answers will not be published in the plan.

1. Name of your department/office/institution

2. Name and Title of Respondent

3. What is your position/title/role with your department/office/institution?

4. Please provide your contact information.

Email Address

Phone Number



Herkimer County Hazard Mitigation Plan - Stakeholder Survey

What is your/your organization's role in Herkimer County?

5. What category does your facility operation/service fall under?

Other (please specify)

6. Based on the above category, please provide additional description and information as to what your organization does or offers (please explain)

7. Please identify the location of your facility(ies) and/ or primary service area. You may choose more than one if your service area covers multiple communities, or "Herkimer County (entire area)" if your service area is county-wide:

- | | | |
|--|---|--|
| <input type="checkbox"/> Herkimer County (entire area) | <input type="checkbox"/> Herkimer (V) | <input type="checkbox"/> Ohio (T) |
| <input type="checkbox"/> Cold Brook (V) | <input type="checkbox"/> Ilion (V) | <input type="checkbox"/> Poland (V) |
| <input type="checkbox"/> Columbia (T) | <input type="checkbox"/> Litchfield (T) | <input type="checkbox"/> Russia (T) |
| <input type="checkbox"/> Danube (T) | <input type="checkbox"/> Little Falls (C) | <input type="checkbox"/> Salisbury (T) |
| <input type="checkbox"/> Dolgeville (V) | <input type="checkbox"/> Little Falls (T) | <input type="checkbox"/> Schuyler (T) |
| <input type="checkbox"/> Fairfield (T) | <input type="checkbox"/> Manheim (T) | <input type="checkbox"/> Stark (T) |
| <input type="checkbox"/> Frankfort (T) | <input type="checkbox"/> Middleville (V) | <input type="checkbox"/> Warren (T) |
| <input type="checkbox"/> Frankfort (V) | <input type="checkbox"/> Mohawk (V) | <input type="checkbox"/> Webb (T) |
| <input type="checkbox"/> German Flatts (T) | <input type="checkbox"/> Newport (T) | <input type="checkbox"/> West Winfield (V) |
| <input type="checkbox"/> Herkimer (T) | <input type="checkbox"/> Norway (T) | <input type="checkbox"/> Winfield (T) |
| <input type="checkbox"/> Other (please specify) | | |

8. Does your organization maintain or manage any of the following within your designated service area? If not, answer "No" at the bottom, otherwise check all that apply.

Buildings

Water/Sewer

Roads

Stormwater

Bridges

No

Other (please specify)



Herkimer County Hazard Mitigation Plan - Stakeholder Survey

Hazard/Damage Identification

9. Looking back at previous hazard events, have buildings/facilities/structures you have worked in and/ or are responsible for been impacted by a hazard (ex. damage/closures/etc.)?

- Yes
- No
- Don't Know

10. If you answered "Yes" to the above question, in your own words please describe the event that caused or is causing (if recurring) damage and loss of service/ property. If quantifiable data is available, please provide that as well (number of damaged structures, monetary loss, etc.) (please explain)

11. Looking at where your facilities or services are located in Herkimer County, what areas do you believe to be the most vulnerable to hazards? What are these hazards? (please explain).



Preparedness

12. Is your organization covered by any of the following plans? Check all that apply

- | | |
|--|---|
| <input type="checkbox"/> Continuity of Operations Plan | <input type="checkbox"/> Business Continuity Plan |
| <input type="checkbox"/> Continuity of Government Plan | <input type="checkbox"/> None |
| <input type="checkbox"/> Emergency Operations Plan | <input type="checkbox"/> Don't Know |
| <input type="checkbox"/> Other (please specify) | |

13. Do you believe the facilities and infrastructure for your organization are equipped to handle a disaster and/or resilient to damages?

- Yes
- No
- Maybe
- Don't Know
- Other (please specify)



Herkimer County Hazard Mitigation Plan - Stakeholder Survey

Project Identification

14. Can you identify projects or programs that will reduce your facility/organization's vulnerability to damages and losses, including loss of operation/service, to hazard events?
(Please explain)

15. Can you identify projects or programs that have been recently been implemented to reduce your facility's/organization's vulnerability, damage and losses, including loss of operation/service, to hazard events? (please explain)



Herkimer County Hazard Mitigation Plan - Stakeholder Survey

Final Thoughts

16. Do you have any questions or comments for Herkimer County?

Q1 Name of your department/office/institution

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	NYS Canal Corporation	1/7/2023 12:53 PM
2	National Grid	1/6/2023 10:36 AM
3	New York State Electric & Gas (NYSEG)	1/6/2023 9:55 AM
4	Montgomery County office of economic development and planning	10/27/2022 11:56 AM

Q3 What is your position/title/role with your department/office/institution?

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	Regional Canal Engineer	1/7/2023 12:53 PM
2	Customer & Community relationships.	1/6/2023 10:36 AM
3	Program Manager for Government and Community Relations in the Oneonta Divison, which includes Herkimer County	1/6/2023 9:55 AM
4	Senior Planner / GIS Specialist	10/27/2022 11:56 AM

Q4 Please provide your contact information.

Answered: 4 Skipped: 0

ANSWER CHOICES	RESPONSES
Name	0.00% 0
Company	0.00% 0
Address	0.00% 0
Address 2	0.00% 0
City/Town	0.00% 0
State/Province	0.00% 0
ZIP/Postal Code	0.00% 0
Country	0.00% 0
Email Address	100.00% 4
Phone Number	100.00% 4

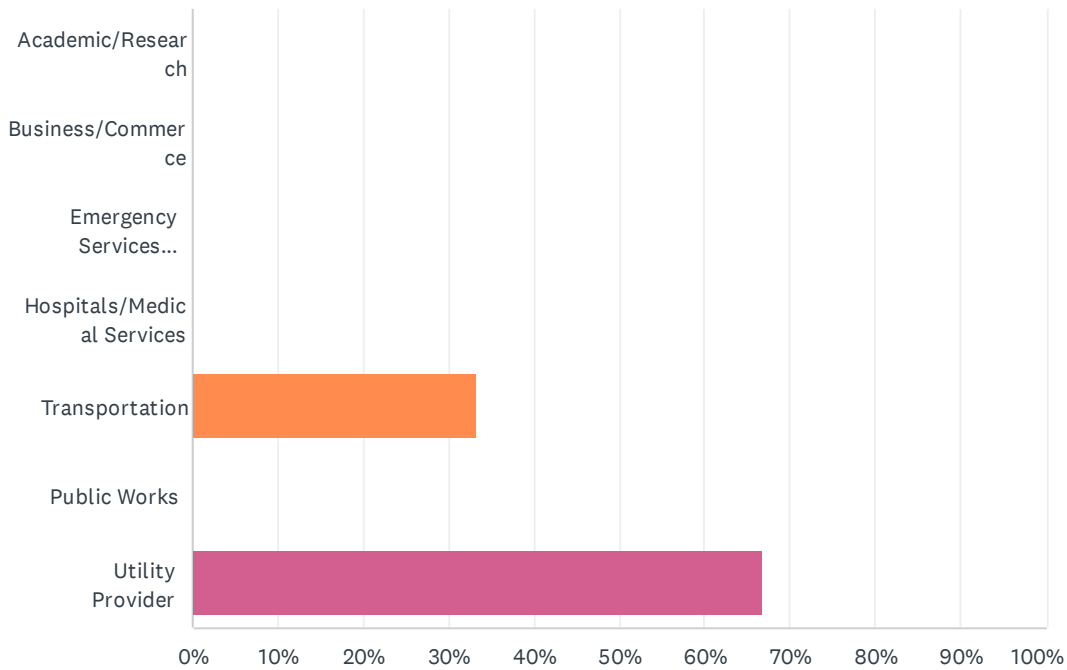
#	NAME	DATE
	There are no responses.	
#	COMPANY	DATE
	There are no responses.	
#	ADDRESS	DATE
	There are no responses.	
#	ADDRESS 2	DATE
	There are no responses.	
#	CITY/TOWN	DATE
	There are no responses.	
#	STATE/PROVINCE	DATE
	There are no responses.	
#	ZIP/POSTAL CODE	DATE
	There are no responses.	
#	COUNTRY	DATE
	There are no responses.	
#	EMAIL ADDRESS	DATE
█	██	██████████
█	████████████████████████████████████	██████████
█	████████████████████████████████	██████████
█	████████████████████████████████████	████████████████
#	PHONE NUMBER	DATE

Herkimer County Hazard Mitigation Plan - Stakeholder Survey

1	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

Q5 What category does your facility operation/service fall under?

Answered: 3 Skipped: 1



ANSWER CHOICES	RESPONSES
Academic/Research	0.00% 0
Business/Commerce	0.00% 0
Emergency Services (police, fire, EMS)	0.00% 0
Hospitals/Medical Services	0.00% 0
Transportation	33.33% 1
Public Works	0.00% 0
Utility Provider	66.67% 2
TOTAL	3

#	OTHER (PLEASE SPECIFY)	DATE
1	Planning	10/27/2022 11:59 AM

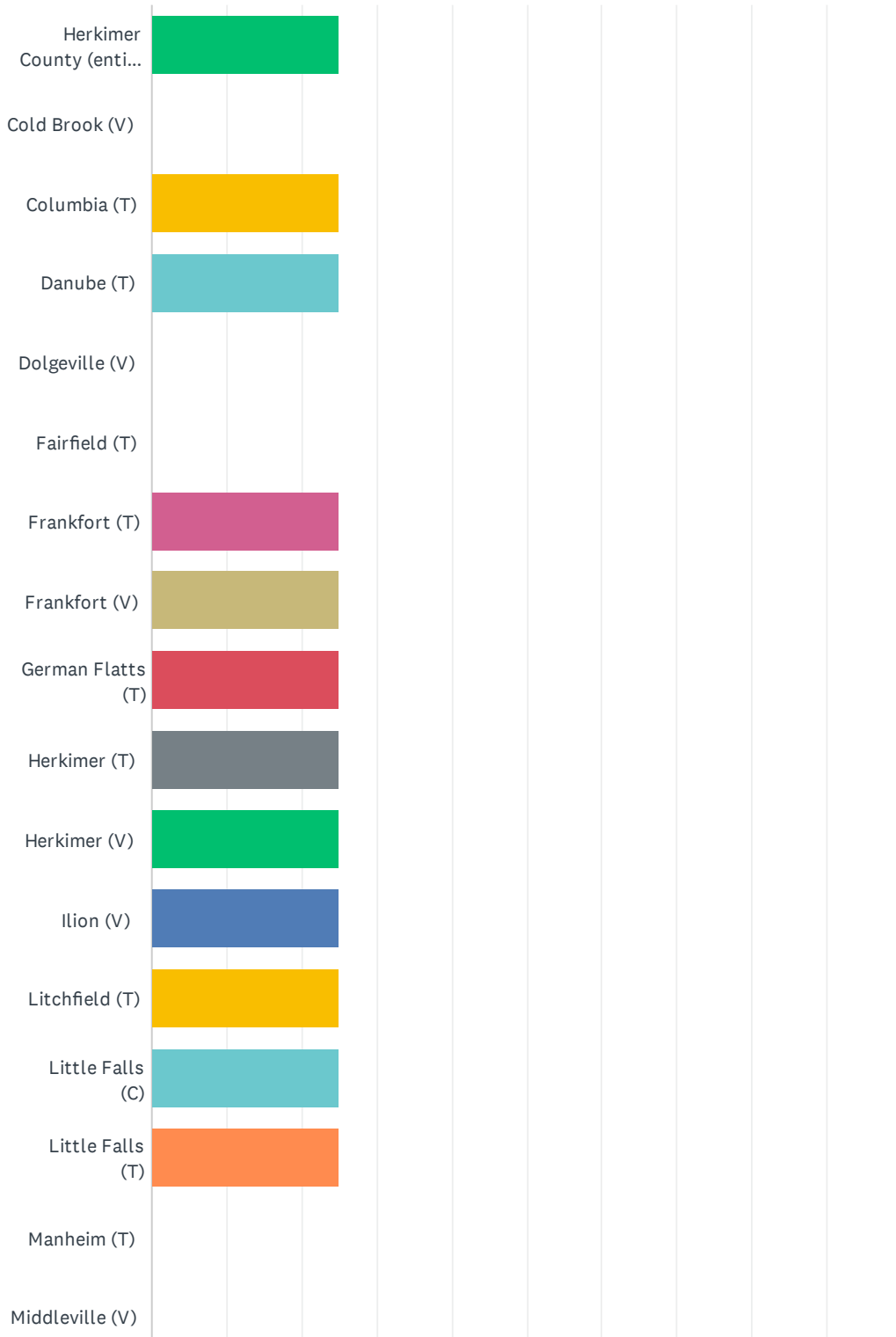
Q6 Based on the above category, please provide additional description and information as to what your organization does or offers (please explain)

Answered: 4 Skipped: 0

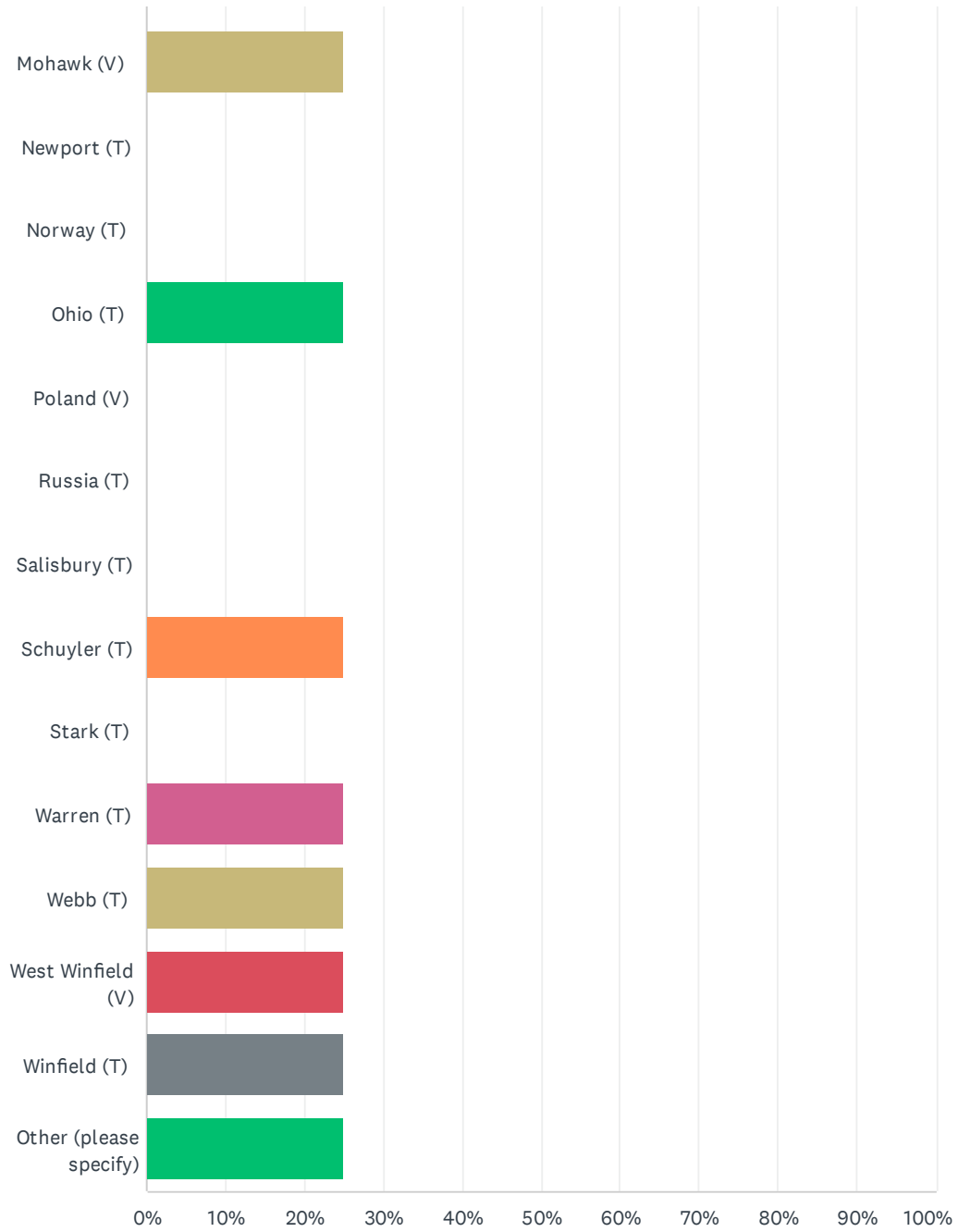
#	RESPONSES	DATE
1	Operates NYS Barge Canal, reservoirs, and portions of Empire State Trail	1/7/2023 12:55 PM
2	Electric & Gas Utility	1/6/2023 10:37 AM
3	Deliver electric service to our customers in towns/villages served by our company	1/6/2023 10:23 AM
4	Planning, grant writing and admin, community development, hazard mitigation planning, brownfield redevelopment, parks & trails planning, planning board referrals, GIS	10/27/2022 11:59 AM

Q7 Please identify the location of your facility(ies) and/ or primary service area. You may choose more than one if your service area covers multiple communities, or "Herkimer County (entire area)" if your service area is county-wide:

Answered: 4 Skipped: 0



Herkimer County Hazard Mitigation Plan - Stakeholder Survey



Herkimer County Hazard Mitigation Plan - Stakeholder Survey

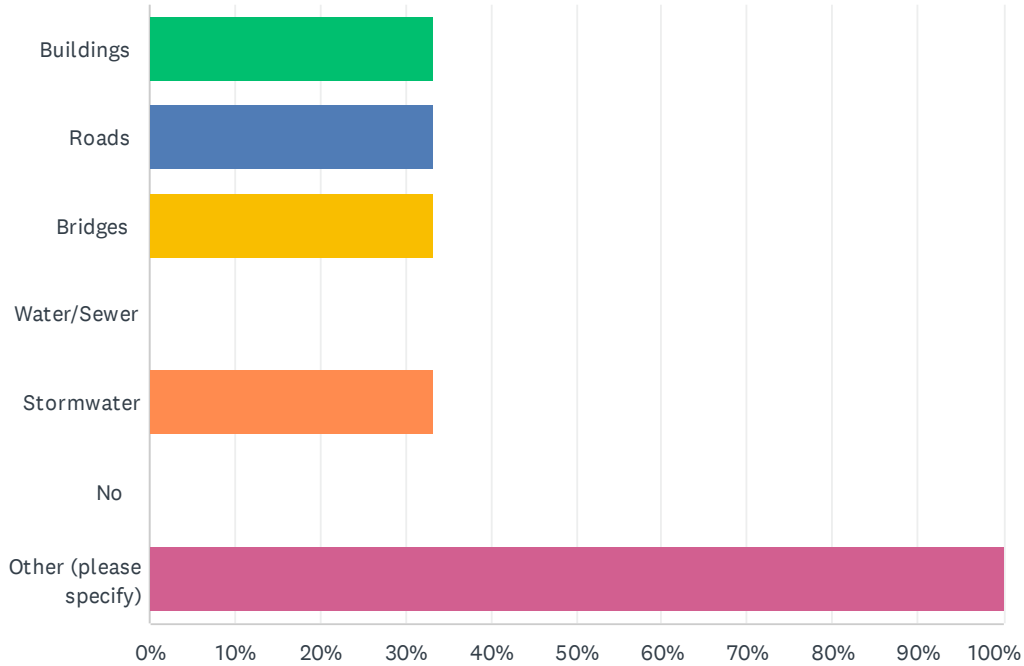
ANSWER CHOICES	RESPONSES	
Herkimer County (entire area)	25.00%	1
Cold Brook (V)	0.00%	0
Columbia (T)	25.00%	1
Danube (T)	25.00%	1
Dolgeville (V)	0.00%	0
Fairfield (T)	0.00%	0
Frankfort (T)	25.00%	1
Frankfort (V)	25.00%	1
German Flatts (T)	25.00%	1
Herkimer (T)	25.00%	1
Herkimer (V)	25.00%	1
Ilion (V)	25.00%	1
Litchfield (T)	25.00%	1
Little Falls (C)	25.00%	1
Little Falls (T)	25.00%	1
Manheim (T)	0.00%	0
Middleville (V)	0.00%	0
Mohawk (V)	25.00%	1
Newport (T)	0.00%	0
Norway (T)	0.00%	0
Ohio (T)	25.00%	1
Poland (V)	0.00%	0
Russia (T)	0.00%	0
Salisbury (T)	0.00%	0
Schuyler (T)	25.00%	1
Stark (T)	0.00%	0
Warren (T)	25.00%	1
Webb (T)	25.00%	1
West Winfield (V)	25.00%	1
Winfield (T)	25.00%	1
Other (please specify)	25.00%	1
Total Respondents: 4		

Herkimer County Hazard Mitigation Plan - Stakeholder Survey

#	OTHER (PLEASE SPECIFY)	DATE
1	Montgomery County	10/27/2022 11:59 AM

Q8 Does your organization maintain or manage any of the following within your designated service area? If not, answer “No” at the bottom, otherwise check all that apply.

Answered: 3 Skipped: 1

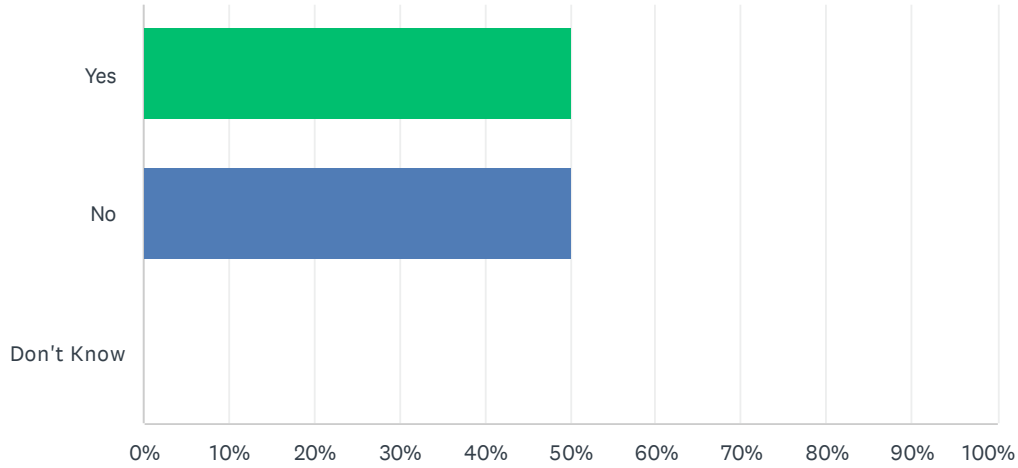


ANSWER CHOICES	RESPONSES	
Bu d ngs	33.33%	1
Roads	33.33%	1
B dges	33.33%	1
Water/Sewe	0.00%	0
Stormwate	33.33%	1
No	0.00%	0
Othe (p ease spec fy)	100.00%	3
Total Respondents: 3		

#	OTHER (PLEASE SPECIFY)	DATE
1	Rese vo s and Dams	1/7/2023 12:55 PM
2	Gas & E ect c	1/6/2023 10:37 AM
3	substaton	1/6/2023 10:23 AM

Q9 Looking back at previous hazard events, have buildings/facilities/structures you have worked in and/ or are responsible for been impacted by a hazard (ex. damage/closures/etc.)?

Answered: 4 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	50.00%	2
No	50.00%	2
Don't Know	0.00%	0
TOTAL		4

Q10 If you answered “Yes” to the above question, in your own words please describe the event that caused or is causing (if recurring) damage and loss of service/ property. If quantifiable data is available, please provide that as well (number of damaged structures, monetary loss, etc.) (please explain)

Answered: 2 Skipped: 2

#	RESPONSES	DATE
1	Flooding - 2006, 2013, 2017, 2019, 2021	1/7/2023 12:57 PM
2	flooding, ice damming	10/27/2022 11:59 AM

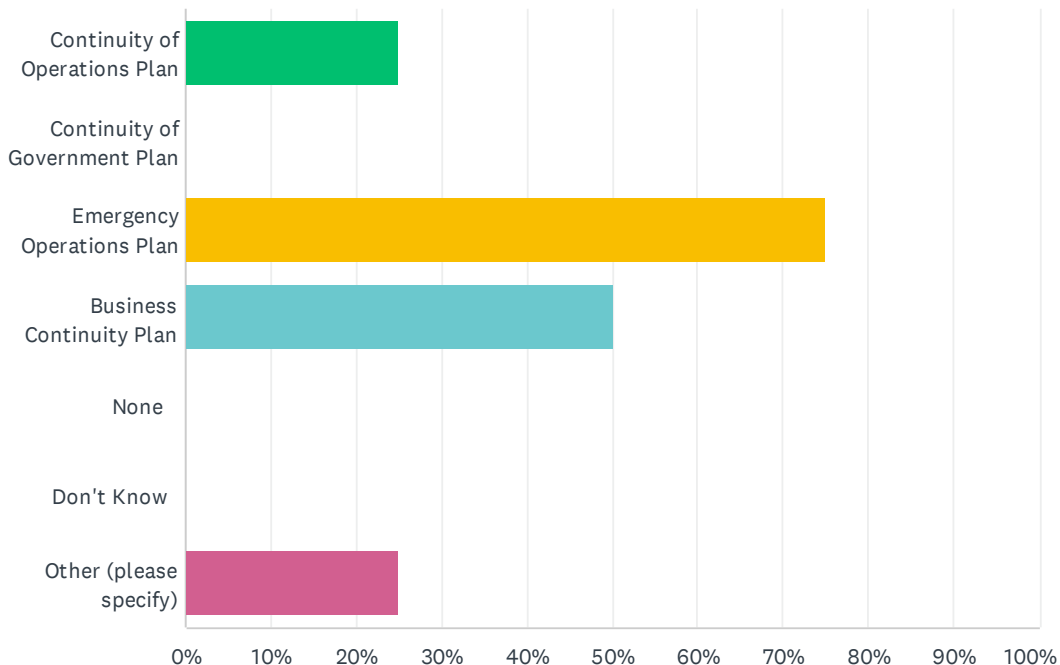
Q11 Looking at where your facilities or services are located in Herkimer County, what areas do you believe to be the most vulnerable to hazards? What are these hazards? (please explain).

Answered: 3 Skipped: 1

#	RESPONSES	DATE
1	Erie Canal and associated facilities are highly susceptible to flooding.	1/7/2023 12:57 PM
2	n/a	1/6/2023 10:37 AM
3	distribution poles and wires subject to weather hazards	1/6/2023 10:27 AM

Q12 Is your organization covered by any of the following plans? Check all that apply

Answered: 4 Skipped: 0

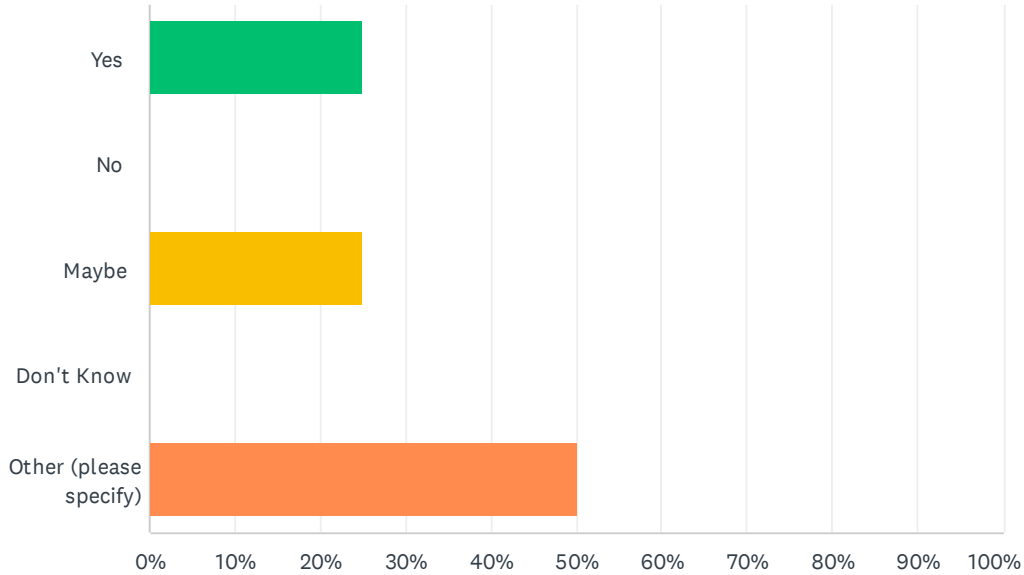


ANSWER CHOICES	RESPONSES
Continuity of Operations Plan	25.00% 1
Continuity of Government Plan	0.00% 0
Emergency Operations Plan	75.00% 3
Business Continuity Plan	50.00% 2
None	0.00% 0
Don't Know	0.00% 0
Other (please specify)	25.00% 1
Total Respondents: 4	

#	OTHER (PLEASE SPECIFY)	DATE
1	We have our own nte na p ans unsue e of coverage n county p ans	1/6/2023 10:30 AM

Q13 Do you believe the facilities and infrastructure for your organization are equipped to handle a disaster and/or resilient to damages?

Answered: 4 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	25.00% 1
No	0.00% 0
Maybe	25.00% 1
Don't Know	0.00% 0
Other (please specify)	50.00% 2
TOTAL	4

#	OTHER (PLEASE SPECIFY)	DATE
1	Mostly yes; some structures less so	1/7/2023 12:57 PM
2	to a certain degree yes	1/6/2023 10:30 AM

Q14 Can you identify projects or programs that will reduce your facility/organization’s vulnerability to damages and losses, including loss of operation/service, to hazard events? (Please explain)

Answered: 3 Skipped: 1

#	RESPONSES	DATE
1	System hardening	1/6/2023 10:39 AM
2	Patrol of distribution and transmission lines within the county and outside lines that service the county, maintenance of right-of-ways to reduce tree damage	1/6/2023 10:32 AM
3	Climate Smart grant to move county services buildings out of flood plain. Hazard mitigation planning.	10/27/2022 12:01 PM

Q15 Can you identify projects or programs that have been recently been implemented to reduce your facility's/organization's vulnerability, damage and losses, including loss of operation/service, to hazard events? (please explain)

Answered: 2 Skipped: 2

#	RESPONSES	DATE
1	Remote work capabilities.	1/6/2023 10:39 AM
2	Climate Smart grant to move county services buildings out of flood plain. Hazard mitigation planning.	10/27/2022 12:01 PM

Q16 Do you have any questions or comments for Herkimer County?

Answered: 1 Skipped: 3

#	RESPONSES	DATE
1	No	1/6/2023 10:39 AM



D.3 NEIGHBORING COUNTY SURVEY

A neighboring county survey was sent to the surrounding counties of Herkimer due to their proximity to the County and because the effects of hazard events that impact Herkimer County would be like that of their neighbors. A summary of the results is included on the following pages.



Herkimer County Hazard Mitigation Plan - Neighboring Community Survey

Herkimer County, NY is in the process of updating the Hazard Mitigation Plan (HMP). Hazard mitigation is any action taken to reduce the loss of life and property by lessening the impact of disasters (natural, technological, and man-made). These include drought, flooding, hail, winter storms, etc. The HMP provides a “blueprint” by which participating jurisdictions can make coordinated efforts toward reducing losses from natural hazards. It is required by the Federal Emergency Management Agency (FEMA) to be eligible for federal grant funding for public and private mitigation projects.

Due to your proximity to Herkimer County, the effects of many of these disasters would be similar in your community, and your involvement in this process could reap mutual benefits. By participating in the review of this plan, you will be engaging in the regional coordination of disaster mitigation planning, which is one of the intents of the Mitigation Planning Regulations (44 CFR 201).

The following survey is designed to help Herkimer County gain a better understanding of how their neighboring communities operate day-to-day and during an emergency and helps our neighbors be included in the planning process.

More information about this planning process and additional mitigation resources may be found on the project website: <https://www.herkimercountynyhmp.com/>

Thank you for supporting the update on this planning process!



Herkimer County Hazard Mitigation Plan - Neighboring Community Survey

Risk and Vulnerability

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.

5. Does your community share risk and vulnerability assessments (flood mapping, HAZUS, etc.) with Herkimer County?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain



Herkimer County Hazard Mitigation Plan - Neighboring Community Survey

Evacuation and Sheltering

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.

6. Do you collaborate with Herkimer County on establishing evacuation routes and alternate evacuation routes?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

7. Do you and Herkimer County consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain

8. Are evacuation routes maintained to the same level of protection across jurisdictional lines?

- Yes
- No
- Don't Know
- N/A
- Other (please specify)

9. Do you collaborate with Herkimer County on establishing shelters?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

10. Do you and Herkimer County consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

11. Do you and Herkimer County share any spaces suitable for temporary housing? This includes locations suitable to place temporary housing units to house residents displaced by a disaster.

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.



Herkimer County Hazard Mitigation Plan - Neighboring Community Survey

Projects, Grants, Education, and Outreach

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.

12. Are you aware of any projects for the following that requires cross-collaboration between jurisdictional boundaries?

- | | |
|--|---|
| <input type="checkbox"/> Stormwater projects | <input type="checkbox"/> Connected roadway improvements |
| <input type="checkbox"/> Watershed projects or planning | <input type="checkbox"/> Natural infrastructure restoration |
| <input type="checkbox"/> Floodplain projects or planning | <input type="checkbox"/> Outreach (education and outreach campaigns, programs for public information, etc.) |
| <input type="checkbox"/> Other (please specify) | |

13. If you selected anything above, please explain.

14. Have your community and Herkimer County collaborated on grant applications?

- Yes
 No
 Don't Know
 N/A
 If yes, please explain.

15. Are you aware of any organizations that carry out education and outreach regarding hazards in both your community and Herkimer County?

- Yes
 No
 Don't Know
 N/A
 If yes, please explain.

16. What are opportunities or ideas to optimize cooperation with Herkimer County on emergency management operations and hazard mitigation projects?



Herkimer County Hazard Mitigation Plan - Neighboring Community Survey

Emergency Operations and Continuity of Operations Planning

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.

17. Do you have any shared service agreements or mutual aid agreements in place with Herkimer County for the following?

- Equipment and staff for debris cleanup and removal
- Emergency staff for evacuations/disaster response
- Damage assessments
- Sheltering
- Other
- If you checked any of the above, please explain.

18. Is Herkimer County involved in your community's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

19. Is your community involved in Herkimer County's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

20. Is Herkimer County involved in your community's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of your community's essential functions for a period of time?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

21. Is your community involved in Herkimer County's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of Herkimer County's essential functions for a period of time?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

22. Thinking about emergency operations and disaster response, please explain how these actions are communicated between communities.



Herkimer County Hazard Mitigation Plan - Neighboring Community Survey

Information Sharing

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.

23. Does your community have access to contact information for Herkimer County's emergency operation centers?

- Yes
- No
- Don't Know
- N/A
- If yes, please explain.

24. Please describe any situations or hazards that are of concern to both your community and Herkimer County. For example, would flooding along a particular waterway impact both jurisdictions, or are there any facilities or infrastructure that would affect both jurisdictions if it/they failed?

25. Please explain how information is shared between communities regarding mitigation projects.

26. Is information regarding mitigation shared during the planning and implementation phases of the projects?

- Yes
- No
- Don't Know
- N/A

If yes, please explain.



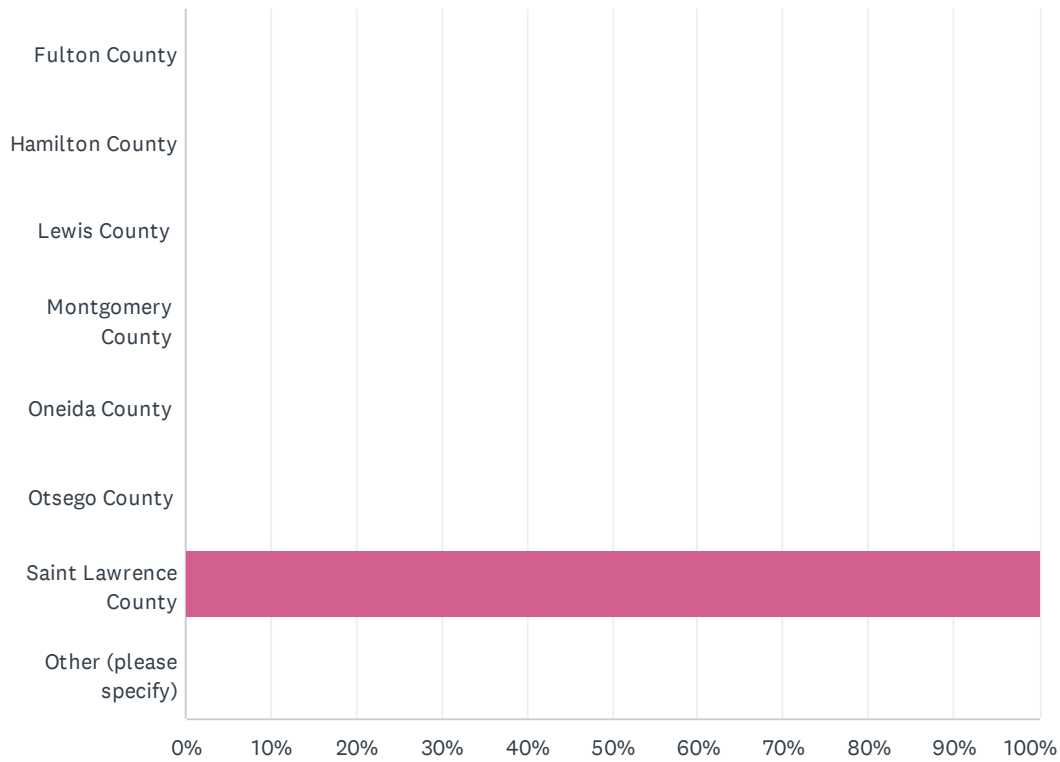
Herkimer County Hazard Mitigation Plan - Neighboring Community Survey

Final Thoughts

27. Do you have any relevant questions or comments for Herkimer County?

Q1 Please indicate the community in which you represent

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Fulton County	0.00% 0
Hamilton County	0.00% 0
Lewis County	0.00% 0
Montgomery County	0.00% 0
Oneida County	0.00% 0
Otsego County	0.00% 0
Saint Lawrence County	100.00% 1
Other (please specify)	0.00% 0
TOTAL	1

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

Q2 Name and Title of Respondent

Answered: 1 Skipped: 0

#	RESPONSES	DATE
1	[REDACTED]	[REDACTED]

Q3 What department do you represent?

Answered: 1 Skipped: 0

#	RESPONSES	DATE
1	OES	1/6/2023 10:14 AM

Q4 Please provide your contact information.

Answered: 1 Skipped: 0

ANSWER CHOICES	RESPONSES
Name	0.00% 0
Company	0.00% 0
Address	0.00% 0
Address 2	0.00% 0
City/Town	0.00% 0
State/Province	0.00% 0
ZIP/Postal Code	0.00% 0
Country	0.00% 0
Email Address	100.00% 1
Phone Number	100.00% 1

#	NAME	DATE
---	------	------

There are no responses.

#	COMPANY	DATE
---	---------	------

There are no responses.

#	ADDRESS	DATE
---	---------	------

There are no responses.

#	ADDRESS 2	DATE
---	-----------	------

There are no responses.

#	CITY/TOWN	DATE
---	-----------	------

There are no responses.

#	STATE/PROVINCE	DATE
---	----------------	------

There are no responses.

#	ZIP/POSTAL CODE	DATE
---	-----------------	------

There are no responses.

#	COUNTRY	DATE
---	---------	------

There are no responses.

#	EMAIL ADDRESS	DATE
---	---------------	------

█

████████████████████

████████████████████

#	PHONE NUMBER	DATE
---	--------------	------

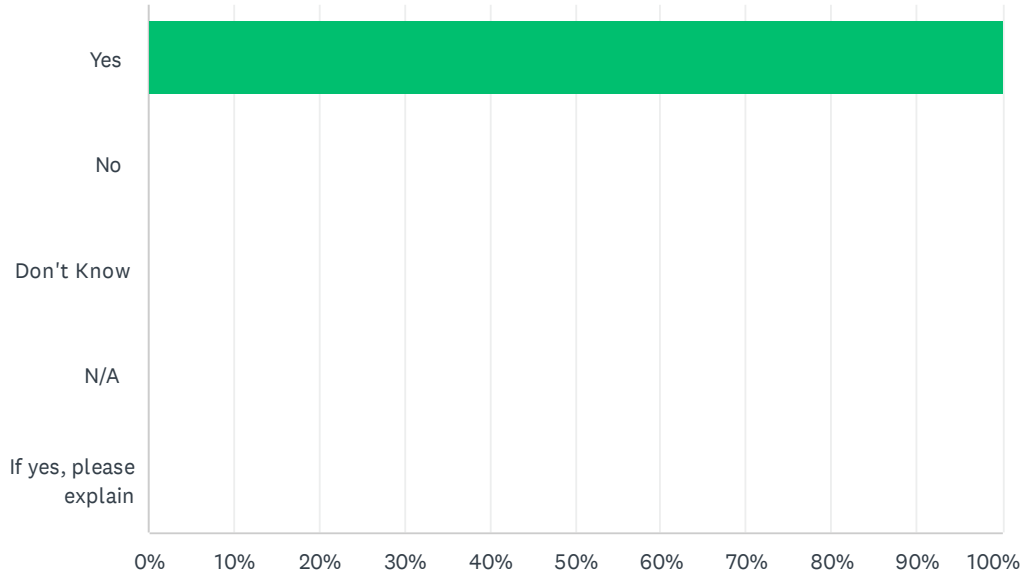
█

██████████

████████████████████

Q5 Does your community share risk and vulnerability assessments (flood mapping, HAZUS, etc.) with Herkimer County?

Answered: 1 Skipped: 0

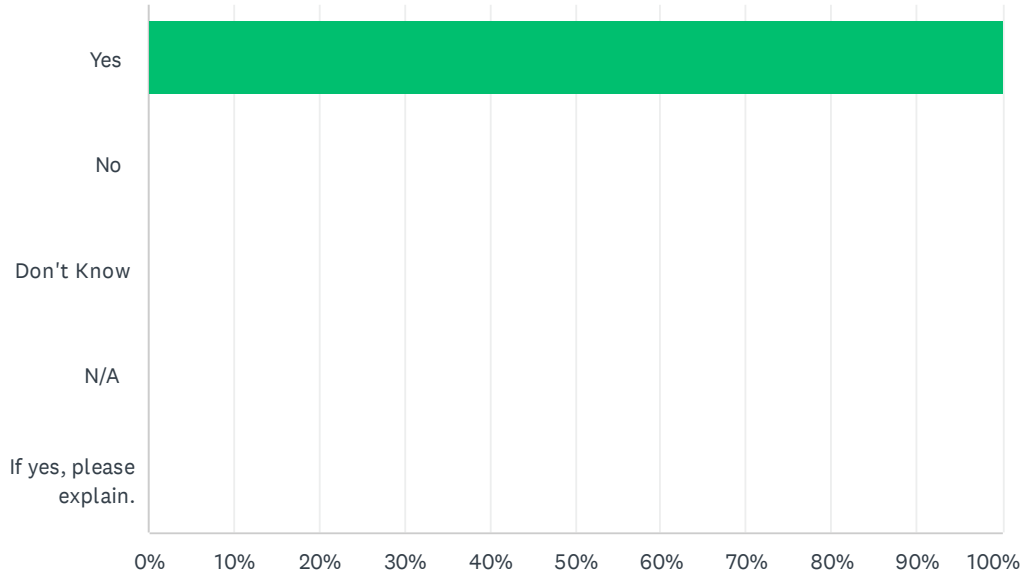


ANSWER CHOICES	RESPONSES
Yes	100.00% 1
No	0.00% 0
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN	DATE
	There are no responses.	

Q6 Do you collaborate with Herkimer County on establishing evacuation routes and alternate evacuation routes?

Answered: 1 Skipped: 0

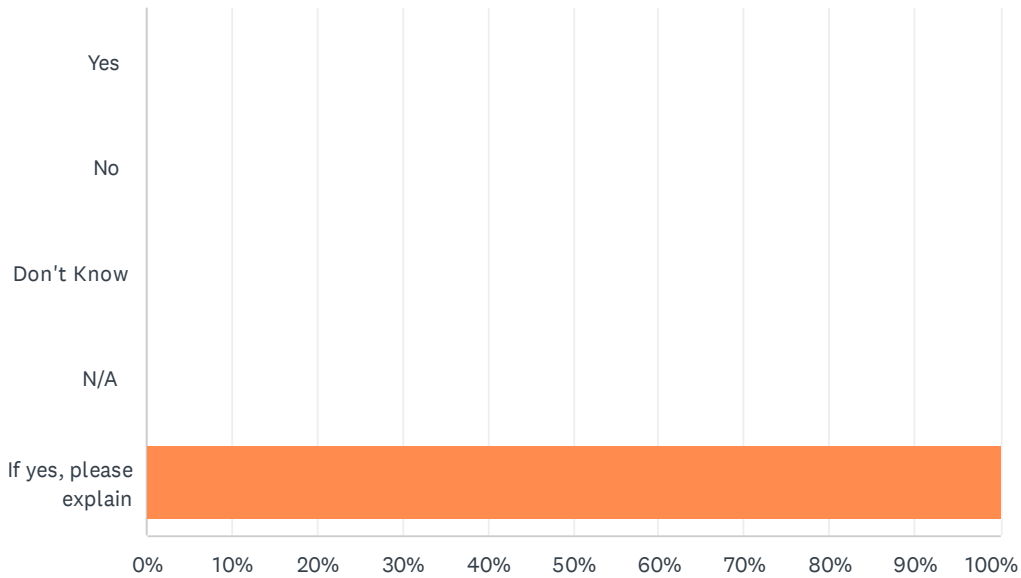


ANSWER CHOICES	RESPONSES
Yes	100.00% 1
No	0.00% 0
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q7 Do you and Herkimer County consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?

Answered: 1 Skipped: 0

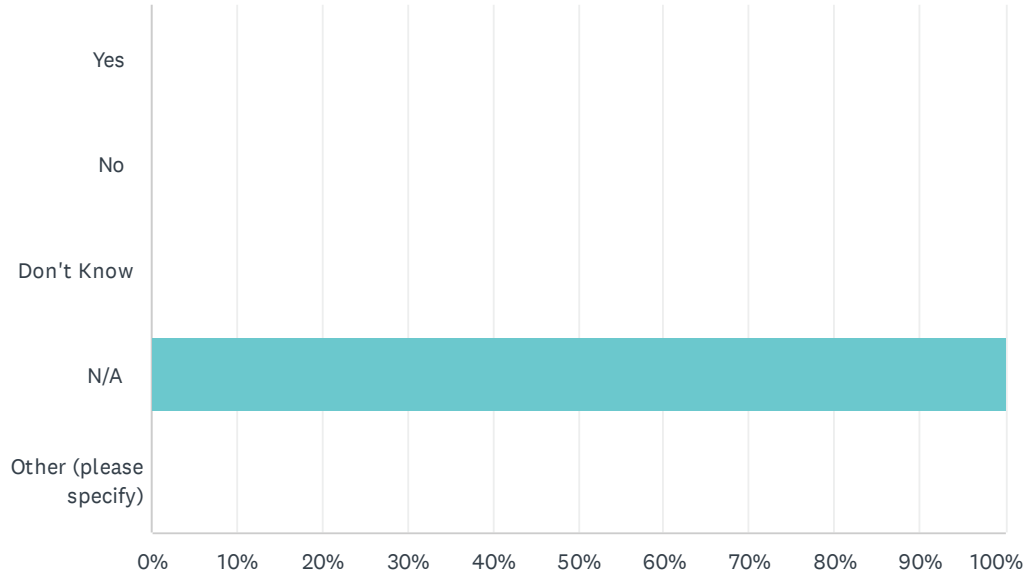


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	0.00% 0
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain	100.00% 1
TOTAL	1

#	IF YES, PLEASE EXPLAIN	DATE
1	we do not have any roads into each other's county	1/6/2023 10:15 AM

Q8 Are evacuation routes maintained to the same level of protection across jurisdictional lines?

Answered: 1 Skipped: 0

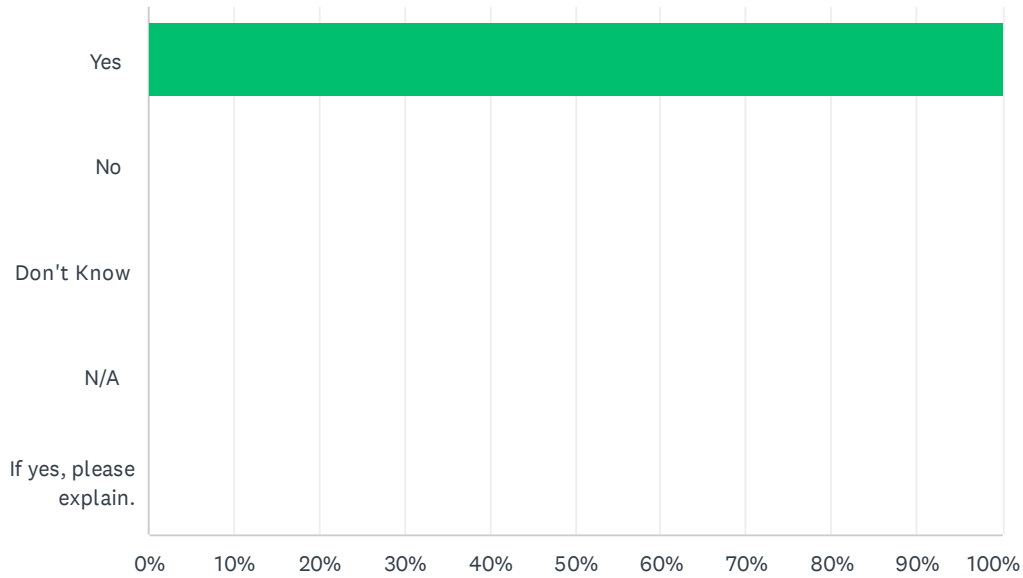


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	0.00% 0
Don't Know	0.00% 0
N/A	100.00% 1
Other (please specify)	0.00% 0
TOTAL	1

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

Q9 Do you collaborate with Herkimer County on establishing shelters?

Answered: 1 Skipped: 0

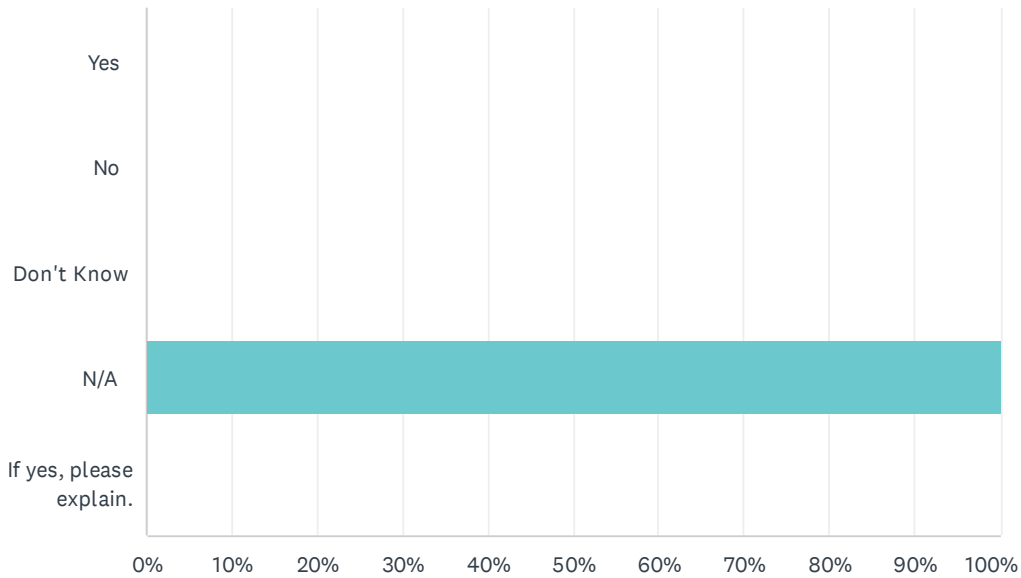


ANSWER CHOICES	RESPONSES	
Yes	100.00%	1
No	0.00%	0
Don't Know	0.00%	0
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q10 Do you and Herkimer County consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?

Answered: 1 Skipped: 0

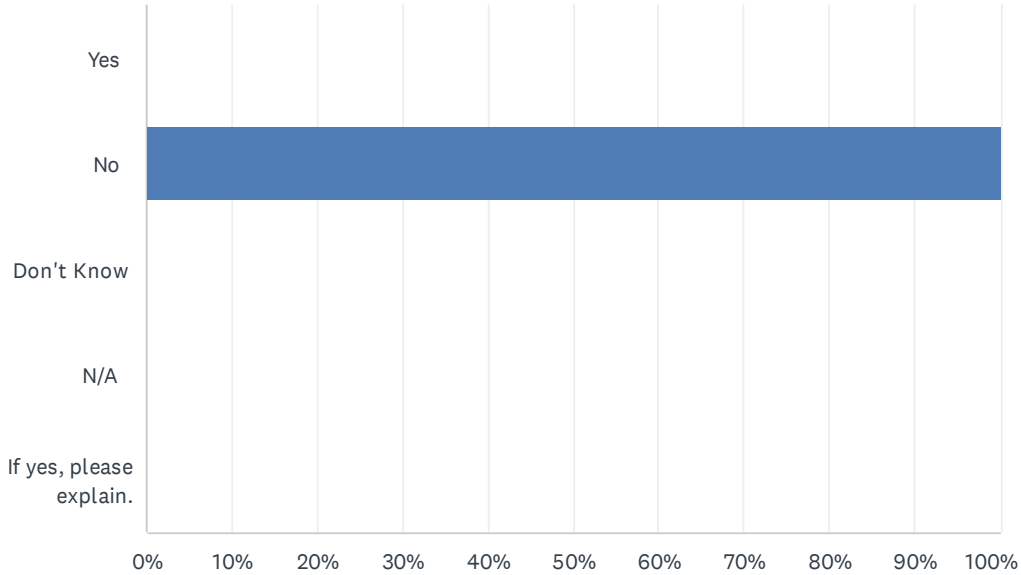


ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	0.00%	0
Don't Know	0.00%	0
N/A	100.00%	1
If yes, please explain.	0.00%	0
TOTAL		1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q11 Do you and Herkimer County share any spaces suitable for temporary housing? This includes locations suitable to place temporary housing units to house residents displaced by a disaster.

Answered: 1 Skipped: 0

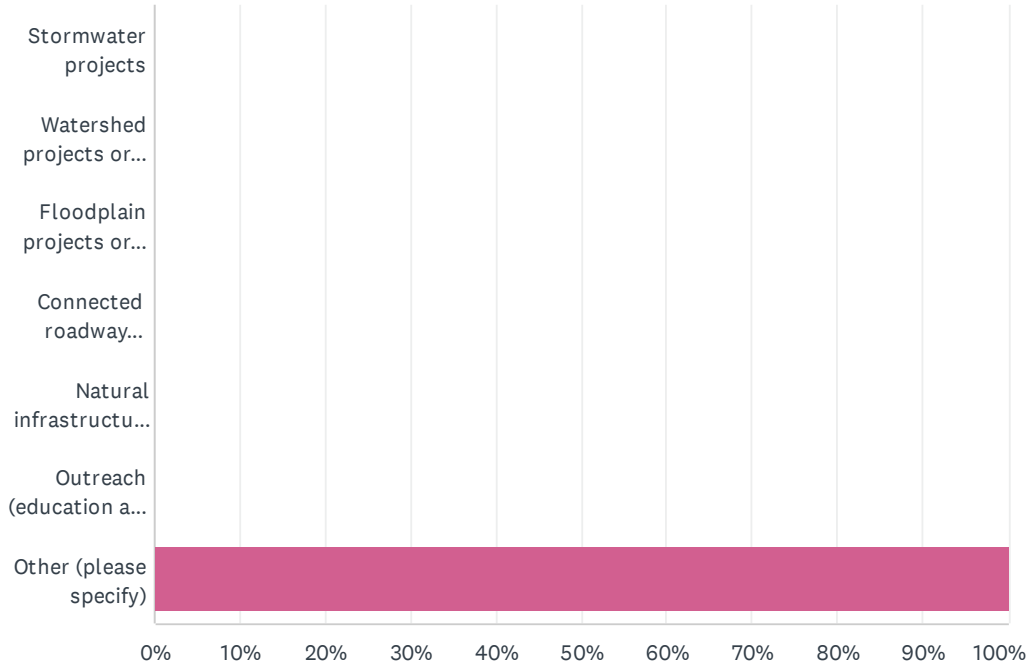


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	100.00% 1
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q12 Are you aware of any projects for the following that requires cross-collaboration between jurisdictional boundaries?

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Stormwater projects	0.00% 0
Watershed projects or planning	0.00% 0
Floodplain projects or planning	0.00% 0
Connected roadway improvements	0.00% 0
Natural infrastructure restoration	0.00% 0
Outreach (education and outreach campaigns, programs for public information, etc.)	0.00% 0
Other (please specify)	100.00% 1
Total Respondents: 1	

#	OTHER (PLEASE SPECIFY)	DATE
1	no	1/6/2023 10:16 AM

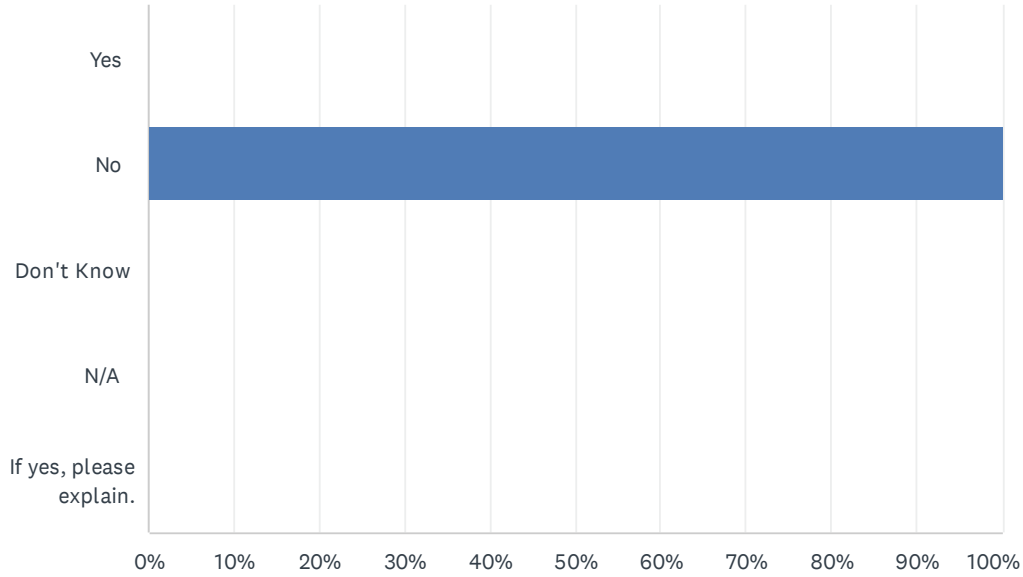
Q13 If you selected anything above, please explain.

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

Q14 Have your community and Herkimer County collaborated on grant applications?

Answered: 1 Skipped: 0

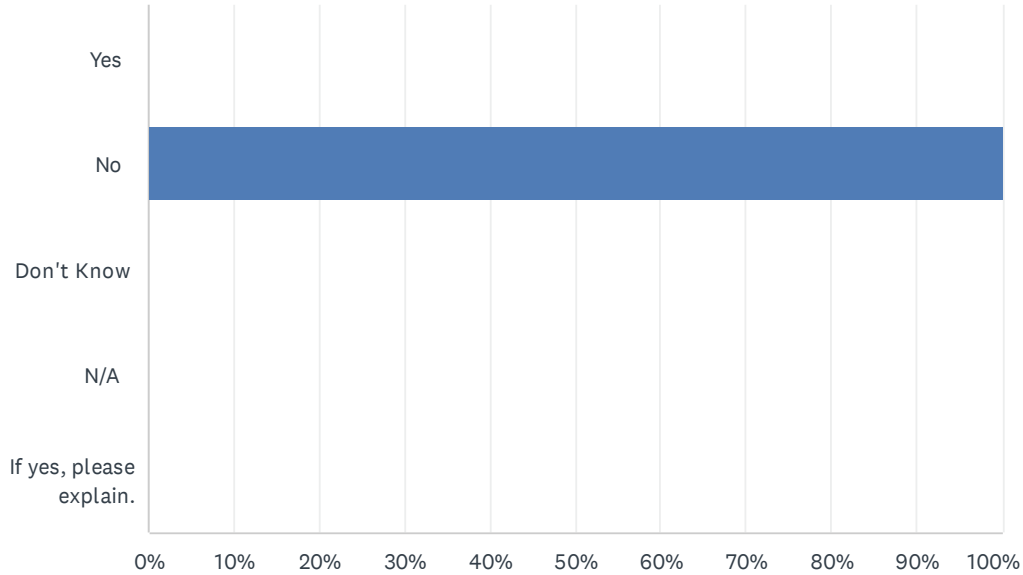


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	100.00% 1
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q15 Are you aware of any organizations that carry out education and outreach regarding hazards in both your community and Herkimer County?

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	100.00% 1
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

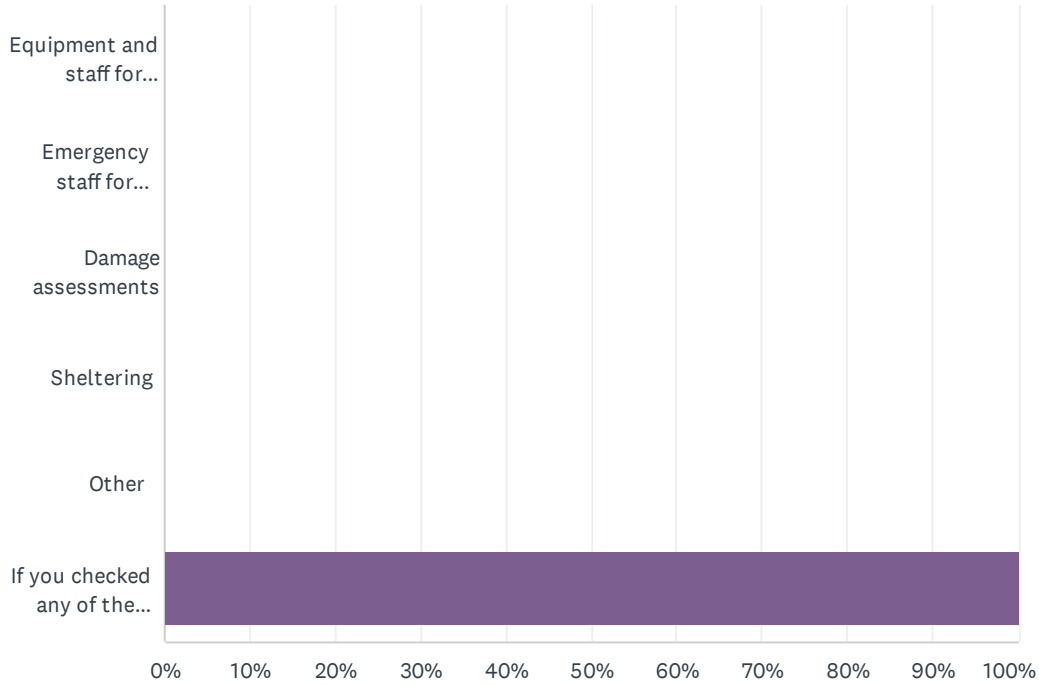
Q16 What are opportunities or ideas to optimize cooperation with Herkimer County on emergency management operations and hazard mitigation projects?

Answered: 1 Skipped: 0

#	RESPONSES	DATE
1	Don't have any	1/6/2023 10:16 AM

Q17 Do you have any shared service agreements or mutual aid agreements in place with Herkimer County for the following?

Answered: 1 Skipped: 0

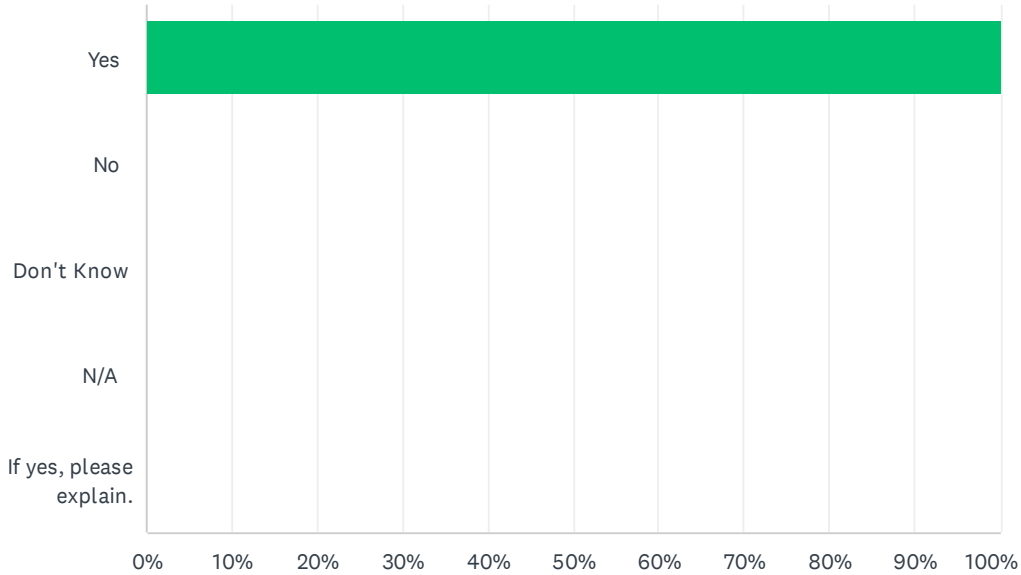


ANSWER CHOICES	RESPONSES
Equipment and staff for debris cleanup and removal	0.00% 0
Emergency staff for evacuations/distance response	0.00% 0
Damage assessments	0.00% 0
Sheltering	0.00% 0
Other	0.00% 0
If you checked any of the above, please explain.	100.00% 1
Total Respondents: 1	

#	IF YOU CHECKED ANY OF THE ABOVE, PLEASE EXPLAIN.	DATE
1	not to my knowledge	1/6/2023 10:17 AM

Q18 Is Herkimer County involved in your community's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

Answered: 1 Skipped: 0

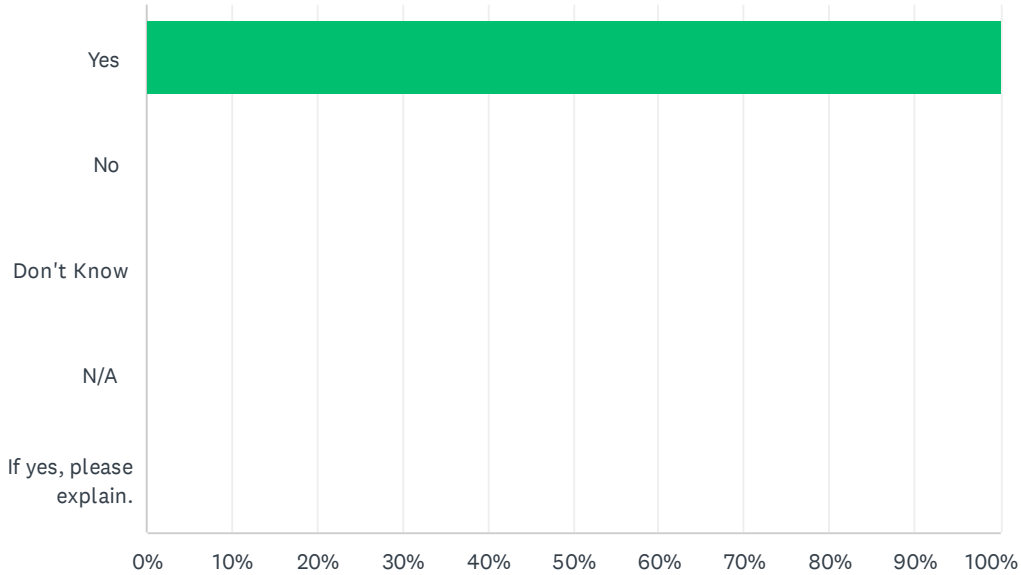


ANSWER CHOICES	RESPONSES
Yes	100.00% 1
No	0.00% 0
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q19 Is your community involved in Herkimer County's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

Answered: 1 Skipped: 0

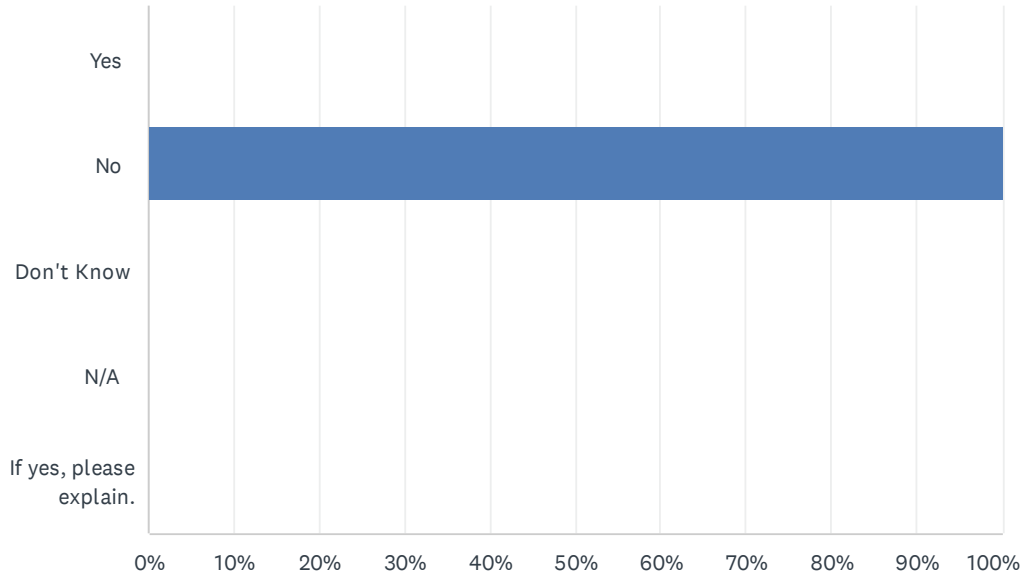


ANSWER CHOICES	RESPONSES	
Yes	100.00%	1
No	0.00%	0
Don't Know	0.00%	0
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q20 Is Herkimer County involved in your community’s Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of your community's essential functions for a period of time?

Answered: 1 Skipped: 0

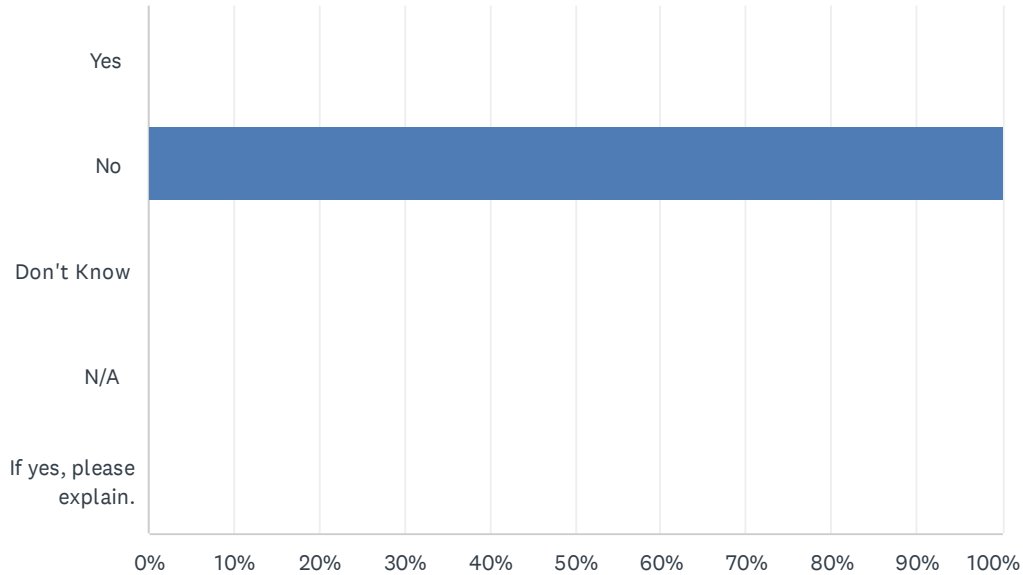


ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	1
Don't Know	0.00%	0
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q21 Is your community involved in Herkimer County's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of Herkimer County's essential functions for a period of time?

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	1
Don't Know	0.00%	0
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

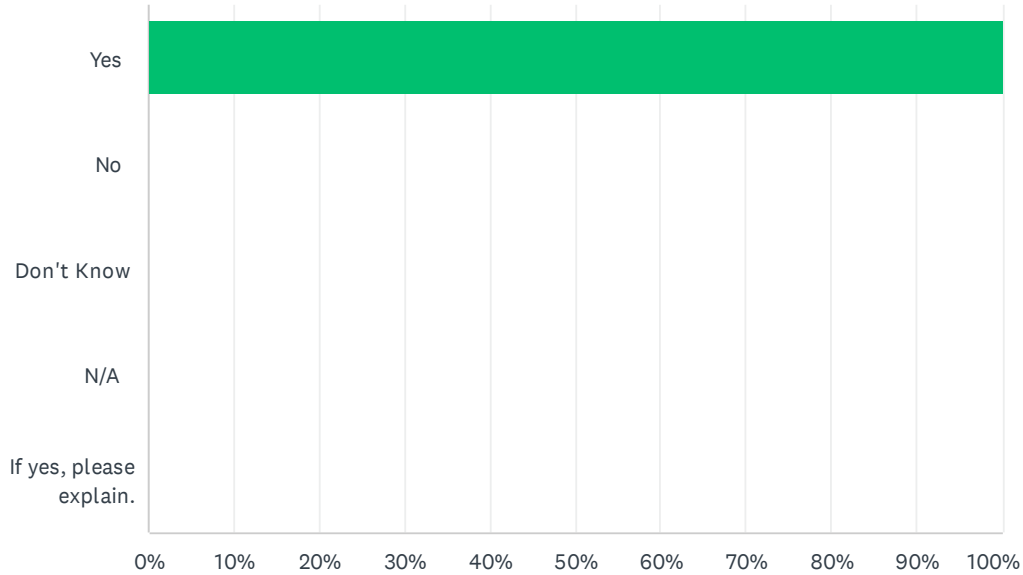
Q22 Thinking about emergency operations and disaster response, please explain how these actions are communicated between communities.

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

Q23 Does your community have access to contact information for Herkimer County’s emergency operation centers?

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	100.00% 1
No	0.00% 0
Don't Know	0.00% 0
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q24 Please describe any situations or hazards that are of concern to both your community and Herkimer County. For example, would flooding along a particular waterway impact both jurisdictions, or are there any facilities or infrastructure that would affect both jurisdictions if it/they failed?

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

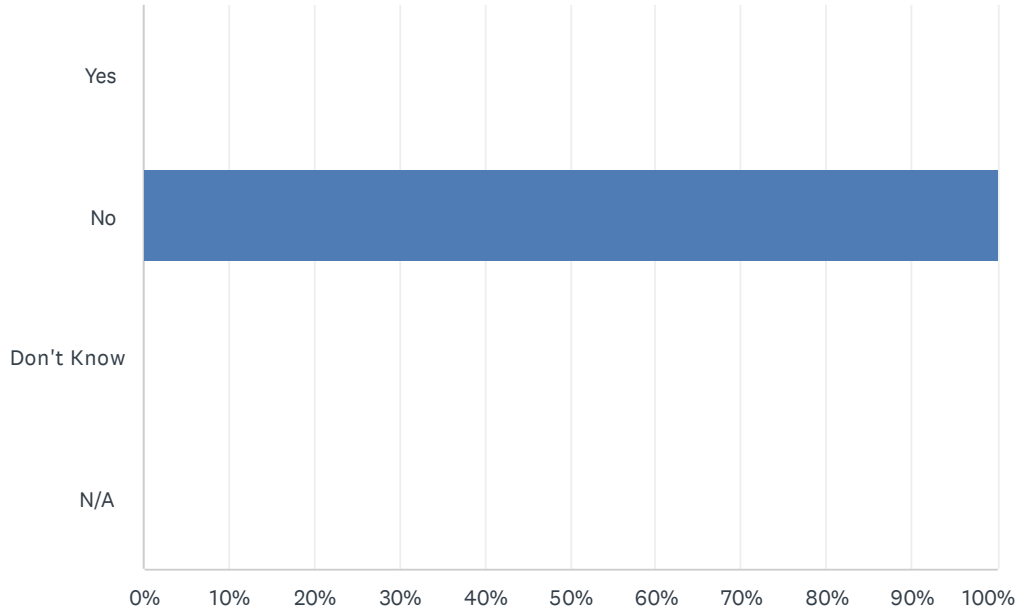
Q25 Please explain how information is shared between communities regarding mitigation projects.

Answered: 1 Skipped: 0

#	RESPONSES	DATE
1	Your EM and me talk all the time and share information	1/6/2023 10:18 AM

Q26 Is information regarding mitigation shared during the planning and implementation phases of the projects?

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	100.00% 1
Don't Know	0.00% 0
N/A	0.00% 0
TOTAL	1

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q27 Do you have any relevant questions or comments for Herkimer County?

Answered: 1 Skipped: 0

#	RESPONSES	DATE
1	no	1/6/2023 10:18 AM



D.4 WEBSITE AND SOCIAL MEDIA POSTS

The following provides screenshots of websites, news articles, and social media posts

Throughout the course of the planning process the Herkimer County Hazard Mitigation Plan website provided and opportunity for the public to access meeting calendar, agendas, minutes, and resources to enable participation and input. Screenshots of the website and social media content is provided to demonstrate the various methods of outreach used throughout the process.

Figure D-1. Herkimer County Website Home Page





Figure D-2. Herkimer County Website Home Page Update

The screenshot shows the home page of the Herkimer County Hazard Mitigation Plan 2023 Update website. The header features the Herkimer County seal and the title 'Herkimer County Hazard Mitigation Plan 2023 Update'. A navigation menu includes 'Home', 'About', 'What is Mitigation', 'Meetings', 'Explore the Plan', and 'Additional Information'. The main content area has a dark blue banner with the text: 'The draft Herkimer County Hazard Mitigation Plan -2023 is in the process of being finalized for submittal to FEMA for review and approval. Click here to review the plan.' Below this, a welcome message states: 'Welcome to the Herkimer County Hazard Mitigation Plan (HMP) Website. This website provides project updates, resources, and links to hazard mitigation in support of the HMP update.' The goal of the project is described as saving lives and property through hazard reduction. Contact information for John J. Raymond and Cynthia Addonizio-Bianco is provided.

Figure D-3. Herkimer County Website 'About' Page

The screenshot shows the 'About' page of the Herkimer County Hazard Mitigation Plan 2023 Update website. The header is identical to the home page. The main heading is 'About the Project'. Under 'Purpose', it states that the Herkimer County Office of Emergency Services is leading the update of the HMP for the County and its jurisdictions, aiming to identify projects that can reduce damages from future natural and non-natural hazards. Under 'Steering Committee', it explains that the committee's purpose is to guide the planning process and provide input. A list of responsibilities follows:

- Providing guidance and oversight of the planning process on behalf of the general planning partnership.
- Attending and participating in Steering Committee meetings.
- Assisting with the development and completion of certain planning elements, including:
 - Reviewing and updating the hazards of concern.
 - Developing a public and stakeholder outreach program.
 - Assuring that the data and information used in the plan update process are the best available.
 - Reviewing and updating the hazard mitigation goals.
 - Identifying and screening of appropriate mitigation strategies and activities.
- Reviewing and commenting on plan documents prior to submission to NYS DHSES and FEMA.



Figure D-4. Herkimer County Website Mitigation Page

Herkimer County Hazard Mitigation Plan 2023 Update

Home About What is Mitigation Meetings Explore the Plan Additional Information

What is Hazard Mitigation?

Hazard mitigation is an action to help reduce long-term risks caused by hazards or disasters, such as flooding, earthquakes, or wildfires. The purpose of hazard mitigation is to protect people and structures, and minimize the costs of disaster response and recovery. Hazard mitigation can take many forms: capital projects, policies, education, and environmental protection.

Proactive mitigation leads to more cost-effective projects. By contrast, reactive mitigation, tends to lead to severe damage and often more costly fixes; it simply costs too much to address the effects of disasters only after they happen. A surprising amount of damage can be prevented if we can anticipate where and how disasters occur, and take steps to prevent those damages.

What is a Hazard Mitigation Plan?

A hazard mitigation plan (HMP) is "the representation of the jurisdiction's commitment to reduce risks from natural hazards, serving as a guide for decision makers as they commit resources to reducing the effects of natural hazards" (44 CFR 201.6). HMPs establish and maintain eligibility for grant funds. The planning process is as important as the plan itself because it creates a framework for governments to reduce the negative impacts from future disasters on lives, property, and the economy.

Hazard mitigation planning can significantly reduce the physical, financial, and emotional losses caused by disasters. The Disaster Mitigation Act of 2000 is federal legislation that establishes a pre-disaster hazard mitigation program and new requirements for the national post disaster Hazard Mitigation Grant Program (HMGP). It encourages and rewards state and local pre-disaster planning and promotes sustainability. Completion of an HMP will result in more effective risk reduction projects and in a faster and more efficient allocation of funding.

Hazard Mitigation Breaks the Cycle

When recurrent disasters, such as riverine flooding, take place, repeated damage and reconstruction can occur. This reconstruction becomes more expensive as the years go by. Hazard mitigation breaks this expensive cycle of repetitive damage and increasing reconstruction costs by taking a long-term view of rebuilding and recovering from disasters.

What Are the Benefits?

Figure D-5. Herkimer County Website Meetings Page

Herkimer County Hazard Mitigation Plan 2023 Update

Home About What is Mitigation Meetings Explore the Plan Additional Information

Meetings

Steering Committee Meeting #1 – August 9, 2022

- Herkimer County HMP – Steering Committee #1 – Agenda [Download](#)
- Herkimer County HMP – Steering Committee #1 – Presentation [Download](#)
- Herkimer County HMP – Steering Committee #1 – Meeting Minutes [Download](#)

Planning Partnership Meeting #1 – September 26, 2022

- Herkimer County HMP – Planning Partnership #1 – Agenda [Download](#)
- Herkimer County HMP – Planning Partnership #1 – Presentation [Download](#)
- Herkimer County HMP – Planning Partnership #1 – Meeting Minutes [Download](#)

Planning Partnership Support Workshop – October 12, 2022

- Herkimer County HMP – Municipal Support Workshop – Agenda [Download](#)
- Herkimer County HMP – Municipal Support Workshop – Meeting Minutes [Download](#)

Steering Committee Meeting #2 – September 27, 2022

- Herkimer County HMP – Steering Committee #2 – Agenda [Download](#)



Figure D-6. Herkimer County Website 'Explore the Plan' Page

Figure D-7. Herkimer County Website 'Additional Information' Page



Figure D-8. Local Public Outreach via My Little Falls

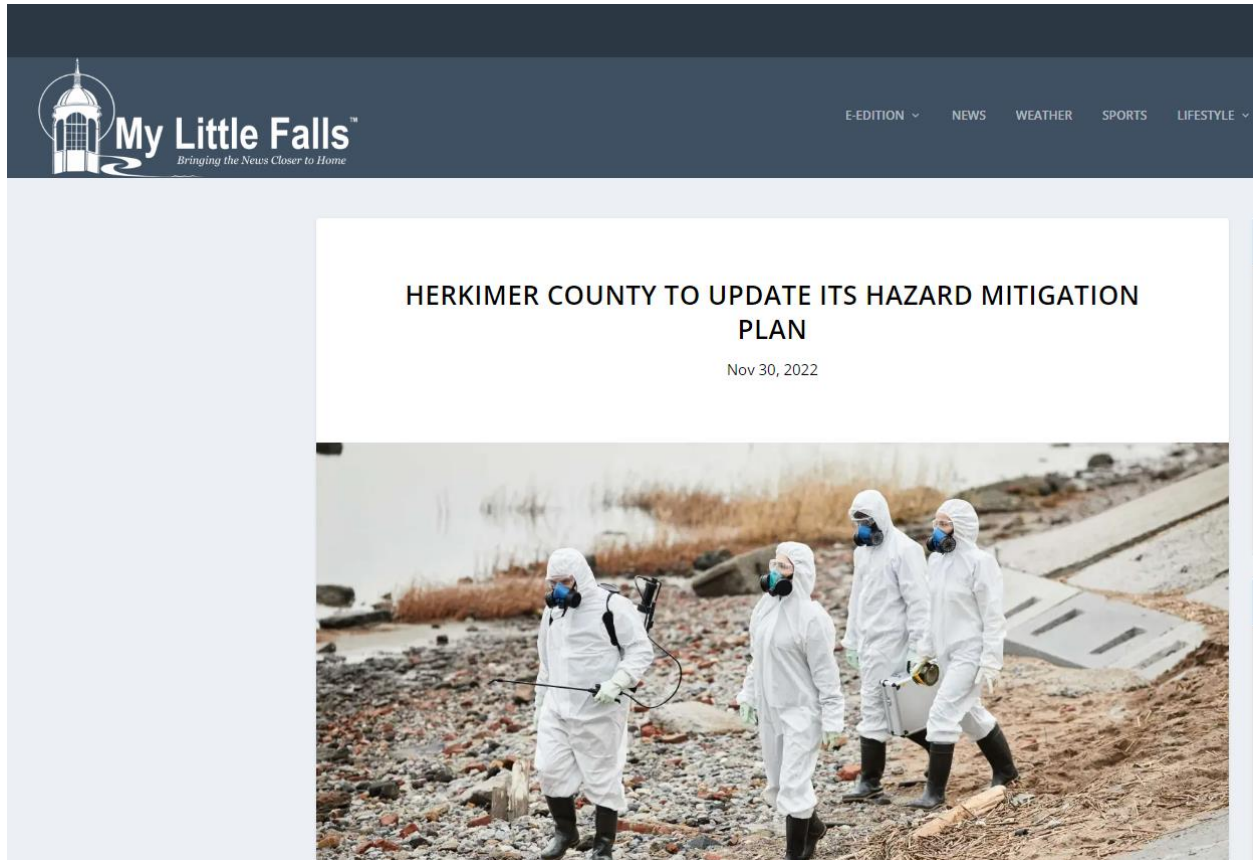




Figure D-9. Local Public Outreach via Town of Frankfort website

MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN IS BEING UPDATED. CALL CODES DEPARTMENT WITH QUESTIONS OR CONCERNS 315-894-0922
OFFICES WILL BE CLOSED NOV. 24TH & 25TH
NEXT TOWN BOARD MEETINGS NOV 28TH @ 6PM,

Welcome to the Town of
FRANKFORT
NEW YORK

[HOME](#) [OUR TOWN](#) [DEPARTMENTS](#) [TOWN DOCUMENTS](#) [AROUND TOWN](#) [COMMUNITY](#) [CONTACT](#)

TOWN DOCUMENTS

2022 TOWN MINUTES



Figure D-10. Public Outreach via WKTV

Herkimer County seeking public input on hazard mitigation plan updates

By: WKTV Nov 29, 2022 Updated Dec 1, 2022 2



The Herkimer County Office of Emergency Services is updating the county's hazard mitigation plan from 2017 and is seeking input from the community during the process.

The Multi-Jurisdictional Hazard Mitigation Plan helps communities assess and reduce the risk of significant impacts from natural disasters or other hazards. The plan also allows the county to be eligible for funding from FEMA if necessary.

The planning team hopes to involve the entire community in the update process, including local businesses, nonprofits and residents.

In an effort to get the public's feedback, the county has posted an anonymous Public Preparedness Survey, which can be completed online here.



Figure D-11. Public Outreach via Herkimer County website

The screenshot shows the Herkimer County website at https://www.herkimercounty.org. The navigation bar includes links for Government, Services/Departments, Employment, Business & Agriculture, Visitors, and Education. The main content area is titled "Bulletin Information" and lists three items:

- AUTO MECHANIC ANTICIPATED JOB OPENING**
December 12, 2023 - Herkimer County Highway Department Posting Anticipated Opening for Full-time Auto Mechanic Position [» Read More](#)
- NOVEMBER 7, 2023 – GENERAL ELECTION – UNOFFICIAL RESULTS WITH WRITE-INS**
November 07, 2023 - [» Read More](#)
- HERKIMER COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN**
October 30, 2023 - The 2023 update of the Herkimer County Hazard Mitigation Plan is available for public review. [» Read More](#)

A "View All" button is located below the list. The bottom of the page features a "Current News" section.



Figure D-12. Facebook Outreach to Gather Public Input-1

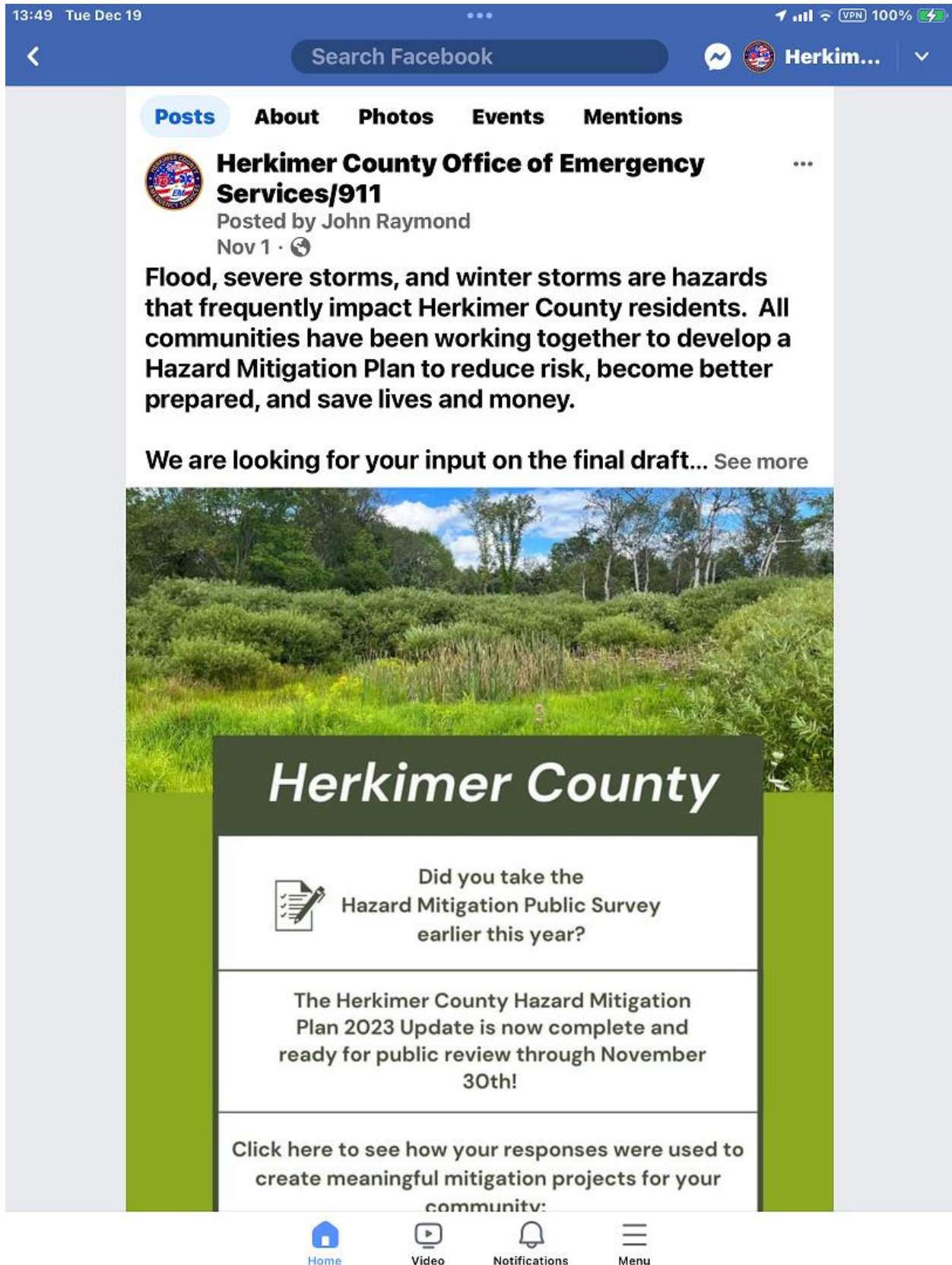




Figure D-13. Facebook Outreach to Gather Public Input-2





D.5 HARD-COPY INFORMATIONAL BROCHURE

The Herkimer County Department of Emergency Services placed hard copies of informational brochures in several locations around the county including local libraries, municipal halls, and community centers. In this manner, residents without access to internet services were informed of the planning process. The brochure is included in the following pages.



HERKIMER COUNTY HAZARD MITIGATION PLAN

2023 Update

What is a Hazard Mitigation?

Hazard mitigation is an action to help reduce long-term risks caused by hazards or disasters, such as flooding, earthquakes, or wildfires. The purpose of hazard mitigation is to protect people and structures, and minimize the costs of disaster response and recovery. Hazard mitigation can take many forms: capital projects, policies, education, and environmental protection.

Proactive mitigation leads to more cost-effective projects. By contrast, reactive mitigation, tends to lead to severe damage and often more costly fixes; it simply costs too much to address the effects of disasters only after they happen. A surprising amount of damage can be prevented if we can anticipate where and how disasters occur, and take steps to prevent those damages.

What is a Hazard Mitigation Plan?

Hazard Mitigation Plans (HMP) are prepared and adopted by counties and municipalities with the primary purpose of identifying, assessing, and reducing the long-term risk to life and property from hazard events. HMPs are most effective when they are based on a comprehensive, long-term plans developed before a disaster occurs.

Effective mitigation planning can break the cycle of disaster damage, reconstruction, and repeated damage. There are four key elements of an HMP: 1) a risk assessment, 2) capability assessment, 3) mitigation strategy, and 4) plan maintenance procedures.

The purpose of mitigation planning is to identify local policies and actions that can be implemented over the long term to reduce risk and future losses from hazards. These mitigation policies and actions are identified based on an assessment of hazards, vulnerabilities, and risks and the participation of a wide range of stakeholders and the public in the planning process.

Purpose

The Herkimer County Office of Emergency Services is leading the update of the countywide HMP. This plan is an opportunity to detail a variety of potential hazards that could affect some or all of our residents and will also allow the county and participating municipalities to be eligible for future mitigation funding from the Federal Emergency Management Agency (FEMA).

The goal of the plan is to identify projects that can reduce damages from future hazards. The plan will include a risk assessment and a hazard mitigation strategy. The primary hazards of concern in Herkimer County include: dam/levee failure, disease outbreak/pandemic, drought, extreme temperature, flood, invasive and nuisance species, severe storm, and severe winter weather.

The study will focus on existing buildings and potential future development, infrastructure, and lifelines that might be impacted. Lifelines include but are not limited to municipal buildings and infrastructure such as power-generation facilities, water utilities, roadways, railroads and communication systems.



What are the benefits of Hazard Mitigation?

Mitigation planning will help the County and the municipalities prepare for disasters, before they happen, to reduce impacts when a disaster occurs.

Benefits include:

- Identifying actions for risk reduction that are agreed upon by stakeholders and the public,
- Focusing resources on the greatest risks and vulnerabilities,
- Building partnerships by involving citizens, organizations, and businesses,
- Increasing education and awareness of threats and hazards, as well as their risks,
- Communicating priorities to state and federal officials, and
- Aligning risk reduction with other community objectives.

What is required in a Hazard Mitigation Plan?

FEMA regulations require that the public must be engaged in all phases of the plan's development. The HMP should review and incorporate existing plans and programs that can support or enhance hazard mitigation. The plan must assess the risk to natural hazards that may impact the planning area and identify and prioritize mitigation actions that can be taken. The HMP must also include a strategy for maintaining the plan, which must be updated every 5 years.

FAQs

What is mitigation? Any sustained action taken to reduce/ eliminate long-term risk to life and property from a hazard event.

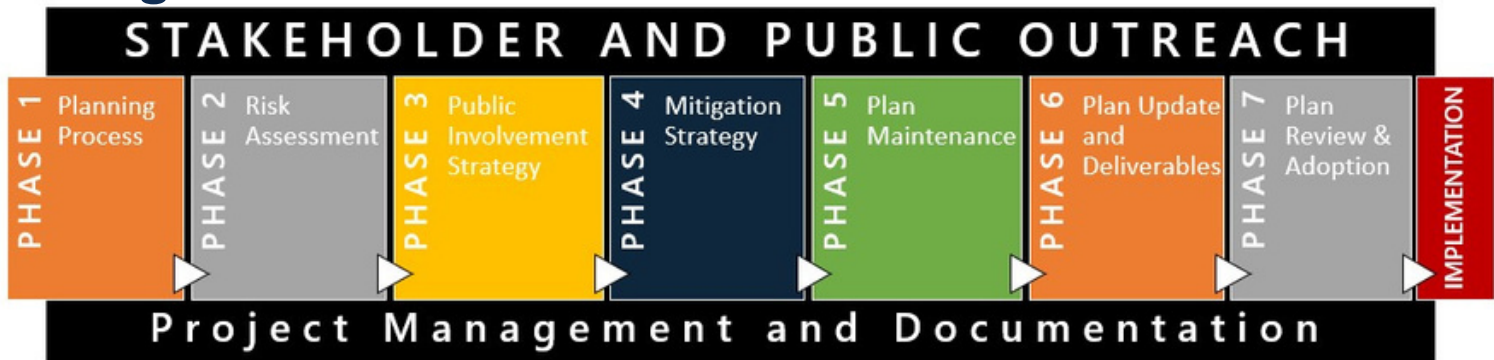
How can you reduce/eliminate risk? Identify mitigation actions/ projects/activities or processes that can include 1) Local plans and regulations; 2) Structure and infrastructure projects; 3) Natural systems protection; 4) Education and awareness programs.

What grant funding is available? FEMA Hazard Mitigation Assistance grant funding is available with a FEMA-approved Hazard Mitigation Plan (annual and post-disaster opportunities).

How can I support the plan? Take the public survey! This will help us obtain input and get a better understanding of public preparedness for hazard events.

Where can I see the 2023 plan? Sections of the draft plan will be available late-2022 for download, review and comment on the Herkimer County HMP website at: <https://www.herkimercountynyhmp.com/>

Planning Process



For more information, please visit our website:
<https://www.herkimercountynyhmp.com/>

For more information about this process, please contact:



Herkimer County Office of Emergency Services
315-867-1212

Live or work in Herkimer County? Take our survey!
<https://www.surveymonkey.com/r/HerkimerCountyHMPPublic>

-or-

scan the QR code to complete the survey





APPENDIX E. SUPPLEMENTARY DATA

This appendix contains information and details to support information provided in Section 5 (Risk Assessment).

E.1 HISTORY OF HAZARD EVENTS WITHIN THE COUNTY

To supplement the information provided in this plan, events prior to the update of this plan included in the 2017 plan are provided below by hazard of concern type. Many sources provided historical information regarding previous occurrences and losses associated with hazards throughout New York and Herkimer County. It is noted that, with a number of sources reviewed for the purpose of this HMP, loss and impact information for many events could vary depending on the sources.

For more information on past events and impacts, refer to the 2017 Herkimer County Hazard Mitigation Plan.

Earthquake

Known earthquakes events that have impacted New York State and Herkimer County between 1840 and 2011 are identified in Table E.1. Many sources were researched for historical information regarding earthquake events in Herkimer County. However, Table E.1 may not include all earthquake events that have impacted the County.

Table E.1. Earthquake History in New York State, 1840-2011

Dates of Event	Event Type	Location	FEMA Declaration Number	County Designated?	Losses / Impacts
January 16, 1840	Earthquake 3.7	Herkimer	N/A	N/A	No reference and/or no damage reported.
January 19, 1982	Earthquake 4.7	Unknown	N/A	N/A	The epicenter was 173.9 miles from Herkimer County.
October 7, 1983	Earthquake 5.3, Moderate Intensity: VI-VII	Adirondacks	N/A	N/A	The epicenter was 20 km east of Blue Mountain Lake, or 71.9 miles from Herkimer, NY. The initial shock and tremors were felt in Herkimer County. Damages included a rotated, cracked chimneys and walls, and broken windows. No record of injury or damage in Herkimer County.
June 17, 1991	Earthquake 4.0, Light Intensity: IV-V	Richmondville	N/A	N/A	The epicenter was 31.7 miles from Herkimer. No record of injury or damage in the county.
April 20, 2000	Earthquake 4.0, (8:46 a.m.), Earthquake 5.2 (10:50 a.m.)	Adirondacks	N/A	N/A	Two earthquakes were recorded on the same day. The epicenter of the first was registered at 73.7 miles from Herkimer County, the second quake in the Town of Newcomb in Essex County, 119.4 miles from Herkimer. The event was felt in 12 states and Canada. No injuries or major damage were reported.



Dates of Event	Event Type	Location	FEMA Declaration Number	County Designated?	Losses / Impacts
April 20, 2002	Earthquake 5.1	“North County” Earthquake	DR-1415	N/A	The largest earthquake since 1983 to affect northeastern New York, with some affects in Herkimer County. The President authorized a FEMA declaration, with total eligible damages of \$2+ million counted in Washington, Warren, Hamilton, Franklin, Essex, and Clinton counties. No record of injury or damage in Herkimer County.
August 23, 2011	Earthquake 5.8	Mineral, Virginia	N/A	N/A	The strongest earthquake since the 1944 earthquake in Massena, NY. Impacted several states and caused precautionary evacuations at New York City airports. There were no documented injuries, but minor property damage was reported, including partial chimney collapses. No record of injury or damage in Herkimer County.

Source(s): *New York State Hazard Mitigation Plan, 2014 (additional statistics extracted from the NYS Statistical Yearbook 2006); Herkimer County All-Hazards Mitigation Plan, (2014 DRAFT); <http://www.city-data.com/city/Herkimer-New-York.html#ixzz4QTfyHyrU>*

- DR Major Disaster Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- N/A Not Applicable
- NY New York
- USGS U.S. Geological Survey

Extreme Temperature

Information regarding specific details of temperature extremes in Herkimer County is scarce; therefore, previous occurrences and losses associated with extreme temperature events are limited. Table H.2 summarizes the extreme temperature events in the County reported in the 2013 plan through 2016.

Table E.2. Extreme Temperature Events in Herkimer County, 2013 and 2016

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 22-24, 2013	Winter Weather (Extreme Cold)	N/A	N/A	Herkimer County
January 21, 2014	Winter Weather (Extreme Cold)	N/A	N/A	Northern Herkimer County
January 26-29, 2014	Winter Weather (Extreme Cold)	N/A	N/A	Herkimer County
January 7, 2015	Winter Weather (Extreme Cold)	N/A	N/A	Northern Herkimer County. An arctic cold front brought bitter cold air into the region, with lows below zero and temperatures at -10 to -30°F in the Adirondacks. Winds caused wind chill values to run as low as -40°F. Communities opened shelters and warming stations for residents needing overnight accommodations. Many school districts delayed start times.
January 30, 2015	Winter Weather (Extreme Cold)	N/A	N/A	Herkimer County



February 5, 2015	Winter Weather (Extreme Cold)	N/A	N/A	Herkimer County
February 13-15, 2015	Winter Weather (Extreme Cold)	N/A	N/A	Herkimer County
February 19-23, 2015	Winter Weather (Extreme Cold)	N/A	N/A	Herkimer County
February 13, 2016	Winter Weather (Extreme Cold)	N/A	N/A	Herkimer County

Sources: NOAA-NCDC 2014; NWS 2014, Herkimer HMP 2017

Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

NOAA-NCDC National Oceanic Atmospheric Administration – National Climatic Data Center
 NWS National Weather Service



Flood

Known flooding events that occurred from 1889 to 2014 are identified in Table E.3. With the extensive amount of flooding documentation for New York State and Herkimer County, not all sources have been identified nor researched. Therefore, Table E.3 may not include all events that have occurred in the County.

Table E.3. Flooding Events in Herkimer County Between 1889 and 2014

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
July 26, 1889	Flood	N/A	N/A	Floods water rose 14' within minutes in Newville. Total cost was \$20-25,000
March 18-19, 1905	Flood	N/A	N/A	Moyer Creek flood, Newspaper article documenting flood event.
April 19, 1905	Flood	N/A	N/A	Moyer Creek flood, Village of Frankfort
August 17, 1908	Flood	N/A	N/A	Location at Dolgeville, Beaver Brook. Bridge destroyed on Beaver Brook. South Main St. submerged, and lightning struck the Priam & Bullick mill. Total cost of \$10,000.
February 28-March 3, 1910	Flood	N/A	N/A	Herkimer County. Severe winter conditions: thick ice, heavy snow, and heavy rainfall. Ice buildup blocked channels. Flooding on major streets in Herkimer crossed canal into the Village. Total cost of \$500,000+
April 4, 1910	Flood: Ice Jam	N/A	N/A	Location of Moyer Creek. Ice jam flooded part of Frankfort village and had to be dynamited. (Coincided with 1910 Herkimer flood, when downtown Herkimer was under water).
January 11, 1912	Flood: Ice Jam	N/A	N/A	Located in Dolgeville. Ice piled to the "top of hip boots."
1910, 1913, and 1914	Flood	N/A	N/A	Steele Creek location. USACE Floodplain database.
March 1, 1913	Flood	N/A	N/A	Herkimer County. Flooding in the northeast. Mohawk River at Little Falls at 19'.
March 27, 1913	Flood	N/A	N/A	Herkimer County. West Canada Creek at Herkimer was "swept away"; railroad washouts and landslides at St. Johnsville, Yost, and Dugway. East Canada Creek at its highest level in a dozen years. River at Little Falls reported to be highest in 50 years. Herkimer streets submerged include Dewey Ave. and Williams, South Main, Steel and Stimson Streets.
Spring 1921	Flood	N/A	N/A	Located in Fulmer Creek. Newspaper reported that the State Senate and Assembly will finance a \$25,000 dredging and concrete embankment project to prevent flooding.
September 1921	Flood	N/A	N/A	Located in Fulmer Creek. Recorded Flood Event.
June 11, 1922	Flood	N/A	N/A	Located in Steele Creek. USACE Floodplain database – 18% of the Village of Ilion inundated. Philips and Whitney St. bridges destroyed.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
March 1936	Flood	N/A	N/A	Fulmer Creek location. Recorded Flood Event
September 21, 1938	Flood	N/A	N/A	Moyer Creek location. Greatest flood of record [pre-2004]. Village required a "certificate of Indebtedness" for cleanup and repairs to sewers, streets, and village property
February 21, 1939	Flood: Ice Jam	N/A	N/A	Herkimer County location. Most streets in Herkimer were partially or fully submerged in water. Fulmer Creek (in Mohawk) and Steele Creek saw high flood waters.
October 2-3, 1945	Flood	N/A	N/A	Located in Dolgeville, East Canada Creek, and West Canada Creek. East Canada Creek at Dolgeville was noted by local reports to have reached 15.1', with max discharge was 24,000 with Max Gauge height of 9' nearly destroyed Daniel Green Factory at Dolgeville (289 sq. mi. drainage area). The Max Gauge Height of West Canada Creek at Kast Bridge was 8.08'. Statewide cost of \$1 million (property); \$100,000 (roads)
July 6, 1948	Flood	N/A	N/A	Located in Ilion, Mohawk. Property damage from flash flood on three creeks in Ilion and Mohawk (Tory, Miller, and an unnamed creek). Water backed up from under-sized culverts under W. Main St. and flowed over the road to the Erie Canal. Rainfall 3.14" in Ilion. Cost of \$2,000
August 31, 1950	Flood	N/A	N/A	Located in Fulmer Creek. Possibly the largest flood event recorded on Fulmer Creek.
September 9-10, 1950	Flood	N/A	N/A	Location of Herkimer County, Herkimer, Frankfort, Ilion, Moyer Creek, and Bellinger Brook. Washouts reported on Frankfort Gorge Road. Conditions in Herkimer described as the worst since 1910. Rte. 20 flooded for a quarter mile east of the Rte. 8 intersection at bridge. Village of Frankfort streets were flooded, families evacuated, significant property damage. Bridge washed out in East Frankfort; other bridges were impassable. Rte. 5S between Ilion and East Frankfort was closed for 10 hours due to washout, damage, and debris. Flow from Bellinger Brook in the Village of Herkimer cut a new channel across an athletic field, depositing debris across the west section of the village. In Herkimer, rainfall totaled 2.65 inches in several hours; Ilion and Frankfort received 3.29". Cost of \$50,000+, State roads/ bridges); \$50,000+ property
March 1952	Flood	N/A	N/A	Location of Fulmer Creek. Recorded Flood Event.
January 27, 1954	Flood	N/A	N/A	Location of Herkimer Creek. Heavy rains and ice damage caused 5 creeks to clog and overflow: Sterling Creek, Oriskany Creek, Big Creek, Sauquoit Creek and West Canada Creek.
March 2, 1955	Flood: Ice Jam	N/A	N/A	Location of East Canada Creek, Dolgeville, Little Falls. Water levels at Little Falls 4' above normal, causing a landslide at Oriskany Bluff and washouts on the Thruway. Ice jam at Stratford sent 4' of water onto roads.
January 29-30, 1957	Flood	N/A	N/A	Location of Herkimer County. Herkimer water system was down for 3 days, streetlights and gas supply for 2 days. The river channel was dynamited several multiple times to clear ice and debris.
January 15, 1962	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. 50 property owners filed claims against the State seeking more than \$100,000 in damages. Cost of \$100,000



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 17, 1962	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Ice jamming reported at the "Old Rte. 55" bridge
March 13, 1962	Flood	N/A	N/A	Location of Moyer Creek. Newspaper article documenting flood event
August 13, 1963	Flood	N/A	N/A	Location of Moyer Creek. Village completes channel modifications with a donation of equipment from NYSDOT
March 5, 1964	Flood	N/A	N/A	Location of Moyer Creek. Extended rain event (12 hour "downpour") causes flooding
February 6, 1965	Flood	N/A	N/A	Herkimer County. West Canada Creek flooded in Herkimer, impacting 20 homes in Pullman Flats. High water was due to ice jam at the junction of West Canada Creek and the Mohawk River.
December 14, 1965	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Newspaper reports that DOT is dredging deeper channel under Main Street bridge to allow ice to pass.
February 13, 1971	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Roads and 125 homes affected on West Main, East Main, Harter, Charles, Devendorf, Lock, and Erie Streets. 300 locations without power for 6 hours. Rte. 55 closed.
February 13, 1971	Flood	N/A	N/A	Location of Moyer Creek. Flood required NYSDOT to clear bridge.
February 13, 1971	Flood	N/A	N/A	Location of Steele Creek. Roads closed because of rain and snowmelt.
May 1972	Flood	N/A	N/A	Herkimer County. No additional information available.
May 30, 1973	Flood	N/A	N/A	Herkimer County. Thunderstorm north of Herkimer destroyed the Kast Bridge Inn foundation and a railroad bridge. The 5-ft. drain pipe for the brook was exceeded by 10-12 ft. deep water.
February 13, 1974	Flood	N/A	N/A	Location of Fulmer Creek. Newspaper article documents erosion problems on residential properties.
July 3, 1974	Flood	N/A	N/A	Moyer Creek location. Storm event damages village sewer and water systems.
July 23, 1974	Severe Storms and Flooding	DR-447	N/A	Damage information unavailable
July 21, 1976	Severe Storms & Flooding (7 counties) Herkimer - IA	DR-515	N/A	NWS – NY Total Flood Damages for 1976 & 1977 in 2013 Dollars: 1976 - \$38 million 1977 - \$10.6 million
September 23, 1976	Flood	N/A	N/A	Moyer Creek location. State agrees to clean out Moyer Creek to alleviate ice jams.
February 1, 1977	Flood: Ice Jam	N/A	N/A	Moyer Creek location. Documented ice jam at railroad bridge.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
March 1, 1979	Flood-ice jam	N/A	N/A	Location of Mohawk River. Ice jam on the Mohawk River caused flooding.
March 6, 1979	Flood: Ice Jam	N/A	N/A	Location of Dolgeville, Herkimer. East Canada Creek ice jam impacted Dolgeville- Stratford areas and other areas in the Mohawk Valley.
February 11, 1981	Flood: Ice Jam	N/A	N/A	Moyer Creek flooded from ice jam at West Main Street bridge. Lock, Mill and Main Streets, 100 people evacuated. Damage to residential and commercial structures.
February 16, 1981	Flood: Ice Jam	N/A	N/A	Location of Moyer Creek. NYSDOT crews cleared ice from Rte. 5 and 5S bridges. Fire Department hosed blockage from under Main Street bridge. Village crews dredged 2 ft. of sediment from under bridge.
April 1, 1982	Flood	N/A	N/A	Location of Steele Creek, Ilion. Families along Gorge Road in southern Ilion concerned about flooding and high-water damming driveway bridge. Tree trunks, branches and litter from Steel Creek.
June 29, 1982	Flood	N/A	N/A	Location of Fulmer Creek, Moyer Creek and Steele Creek. Flooding from Fulmer Creek impacted Holt Brothers and sewage treatment plant. Moyer Creek flooded residential cellars near the gorge (Rte. 171). Sandbags at Otsego St. bridge 5' above arch.; at Steele Creek.
February 17, 1983	Flood: Ice Jam	N/A	N/A	Location of Steele Creek. High pressure hoses used to clear Rte. 51 bridge.
September 4, 1984	Flood	N/A	N/A	Location of Steele Creek. Newspaper articles note clean-up of Ilion Gorge Rd., 3 miles south to Ilion.
August 29, 1985	Flood	N/A	N/A	Location of Steele Creek. Newspaper article reported Small Cities grant for retaining wall.
July 22, 1986	Flood	N/A	N/A	Location of Dolgeville. Ten families evacuated. A temporary river flowed down Spofford Ave, causing the road to peel up. Beaver Brook overflowed its banks, causing Beaver St. to be submerged in 4' of water. Three-mile section between Rtes. 28 and 169 closed due to debris from timber and mud from West Canada Creek overflow.
March 8, 1987	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Ice jam south of Main Street bridge.
1988	Flood	N/A	N/A	Location of Steele Creek. Newspaper reports sandbags needed for Otsego St. bridge.
1988	Flood	N/A	N/A	Location of Steele Creek. Reports of Rte. 51/Otsego St. bridge could overtop.
January 24, 1990	Flood	N/A	N/A	Location of Moyer Creek. Village requested DEC approval dredge Moyer Creek at Main Street.
January 26, 1990	Flood	N/A	N/A	Location of Mohawk. The Village Board recorded bank erosion on Tory Creek near Catherine Street.
Fall 1990	Flood	N/A	N/A	Location of Fulmer Creek. Newspaper article noted sediment dredging near Holt Bros.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
December 23, 1990	Flood	N/A	N/A	Location of Moyer Creek. Recurrent flooding on Fifth Avenue Extension and Kernan Avenue.
May 9, 1991	Flood	N/A	N/A	Location of Fulmer Creek. Newspaper article noted SWCD study of erosion on Rte. 168.
March 31, 1993	Flood-Snow Melt	N/A	N/A	Rain compounded by snow melt caused flooding areawide. The Mohawk River flooded between Utica and Mohawk. Cost of \$50,000.
April 10-22, 1993	Flood	N/A	N/A	Flooding continued across much of northern New York from earlier rain runoff. West Canada Creek among hardest hit areas <i>[May be related to two previous listings for March and April 1993.]</i> Cost of \$500,000
May 3, 1993	Flood	N/A	N/A	Location of Fulmer Creek. Newspaper article notes two NRCS (SCSI) projects totaling \$80,000 for bank stabilization projects, debris removal, removal of sediments, etc. Total Cost of \$500,000
December 22, 1993	Flood	N/A	N/A	Location of German Flatts. The Town Board noted multiple resident properties experiencing bank/bridge erosion.
February 21, 1994	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Flooding and ice jamming caused great damage: Herkimer Co. sewage treatment plant (\$107,000); NYS Thruway Authority (\$84,000); NYSDOT (\$316,000); County Highway Department (\$171,000); Repair peeled pavement from Lock, Charles, Erie, and Harter St. (\$19,000); Water system, sanitary sewer and electrical system damage estimate (\$112,000); repair and rebuild 4 catch basins (\$6,700); Village requests for state assistance - labor, materials, equipment (\$18,000); Mohawk Police Dept. - labor and equipment (\$1,000). Main St. closure affected 35 businesses. Over 70 homes affected, 40 structures evacuated because there was no power, 20 homes with water in the basements. Cost of \$834,700.
February 21, 1994	Flood: Ice Jam	N/A	N/A	Location of Moyer Creek. Ice 2' thick covered 300 ft. of West Main Street. Cost of \$687,000.
April 13-17, 1994	Flood	N/A	N/A	Location of Herkimer, Frankfort. No additional information available. Cost of \$50,000.
May 6, 1994	Flood	N/A	N/A	Location of Fulmer Creek. Herkimer County SWCD requested a Public Law 566 erosion/flood study.
June 15, 1994	Flood	N/A	N/A	Location of Fulmer Creek. The Village of Mohawk received \$385,625 Emergency Management grant for February flood damage.
June 27, 1994	Flood	N/A	N/A	Flash flooding occurred along Ferguson Creek when 3.6" of rain fell in a 50-minute period. A total of 4.2" fell in a 3-hour period. Cost of \$5,000.
July 8-9, 1994	Flood	N/A	N/A	Location of Mohawk, Ilion, Herkimer, Newport, Ohio, Frankfort, Russia, Little Falls. No additional information available. Cost of \$5,000.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
November 5, 1994	Flood	N/A	N/A	Location of Fulmer Creek. Newspaper reported that NYSDOT and the county began annual program of dredging under Main St. bridge. "Several hundred yards" of material removed on each side of the bridge.
December 8, 1994	Flood	N/A	N/A	Location of Steele Creek. DEC correspondence notes drainage/flooding on Weston property, North Street
January 7, 1995	Flood	N/A	N/A	Location of Fulmer Creek. Newspaper reported that Village of Mohawk will receive a \$100,000 DEC Aid to Locations grant for wall reconstruction and other projects.
March 7, 1995	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Smaller ice jam "threatening" the Village of Mohawk at 5S bridge. Village declares state of emergency. County Highway Department provided crane to remove ice jams. Mud slide on Tory Creek near Catherine St.
June 11, 1995	Flood	N/A	N/A	Location of German Flatts. Thunderstorms ahead of a cold front caused flash flooding from 3" to 4" of rainfall. Roads accumulated up to 2' of standing water from creek overflow. Cost of \$2,000.
July 17, 1995	Flood: Urban	N/A	N/A	Ilion. Heavy rains caused urban from backed up as storm drains. Cost of \$20,000.
July 20, 1995	Flood	N/A	N/A	The Village of Frankfort requests permit from state to clean up Moyer Creek.
October 1995	Flood	N/A	N/A	Location of Fulmer Creek. Newspaper reported that dredging of sediment and debris from Main Street bridge channel is under way.
October 21-22, 1995	Flood	N/A	N/A	East Canada Creek flooded in Dolgeville, moderate flooding reported on Moose River.
January 19, 1996	Flood: Ice Jam	N/A	N/A	Location of Herkimer County, Mohawk River, Fulmer Creek, Moyer Creek. FEMA assistance approved. Cost of \$2.8 million countywide.
January 20, 1996	Flood: Ice Jam	N/A	N/A	Location of Mohawk River, Fulmer Creek. Rapid snow melt countywide. Roads washed out and homes destroyed. \$1.25+ million in damage at Burrows Paper Co. in Little Falls. Major highways closed.
January 23, 1996	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Ice jamming and overbank flooding impacted Emrich property and nearby trailer park. Town hired track-hoe for Rte. 168 bank stabilization. Cost of \$775,000 (est.)
January 24, 1996	Severe Storm & Flooding (41 counties) Herkimer - PA	DR-1095	N/A	Road closures, property damages, closed businesses and ten (10) deaths. Total Eligible Damages: \$160 million. NWS – NY Total Flood Damages for 1996 in 2013 Dollars: \$220 million
January 31, 1996	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Newspapers reported that NCRS has approved a \$30,000 grant for 280 feet of erosion control. Town of German Flatts share is \$10,000.
		N/A	N/A	Minor flooding along the Mohawk River in Herkimer County when the river went 1' above flood stage at Little Falls. Roads at the industrial park near Little Falls were flooded. West Canada



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
February 2, 1996	Flood			Creek flooded in southern Herkimer County from the Hinckley Reservoir downstream to the Mohawk River. Flooding was confined to low-lying areas. Minor flooding at McKeever from the Moose River.
February 9, 1996	Flood	N/A	N/A	Location of Fulmer Creek and Steele Creek. USACE secures authorization of \$300,000 for Flood Control Feasibility Studies.
February 21, 1996	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Ice jam forms under Rte. 5S bridge but clears itself.
February 24-26, 1996	Flood: Ice Jam	N/A	N/A	Location of Dolgeville, East Canada Creek. Ice jam on East Canada Creek causes flooding of streets and basements in Dolgeville. Cost of \$8,000.
February 28, 1996	Flood: Ice Jam	N/A	N/A	An ice jam developed along the East Canada Creek at State Rte. 29 bridge in Dolgeville. Water backed into cellars of nearby buildings. Cost of \$4,000
March 15, 1996	Flood: Ice Jam	N/A	N/A	Location of Fulmer Creek. Ice jam forms under Main St. Rte. 5S bridges but clears itself.
May 10, 1996	Flood	N/A	N/A	Location of Moyer Creek. Hazard grant obtained to remove RR bridge in lower reach, the site of frequent jams.
July 23, 1996	Flood	N/A	N/A	Location of Fulmer Creek. Reconstruction activities begin from Feb. 1994 storm with FEMA and NYS funds; reconstruction of Lock Street, Erie Street with full curbing and storm drains (\$110,000 SEMO grant); reconstruction of northeastern retaining wall (\$13,15[7] FEMA and State Funds).
August 27, 1996	Flood	N/A	N/A	Stationary showers and thunderstorms with torrential downpours resulted in flash flooding at Ilion. Numerous streets flooded, including: East and West Main Streets, Central Avenue, and Otsego St., including side streets. Several homes and businesses were flooded. The Ilion Post Office, Lennox Brothers Pharmacy, and Remington Arms Credit Union sustained flood damage. Cost of \$150,000.
November 9, 1996	Flood	N/A	N/A	Low pressure system produced 4-5" of rain over most of central New York, with resulting runoff causing minor flooding along the Mohawk River.
January 19, 1997	Flood: Ice Jam	N/A	N/A	Small jam at Main St. bridge on Steele Creek.
January 7-11, 1998	Flood	N/A	N/A	Moose River crested 2.5' over flood stage. Hinckley Dam overflow caused flooding on West Canada Creek, Spencer Creek, East Canada Creek.
April 2, 1998	Flood	N/A	N/A	Rapid snowmelt caused the Hinckley Reservoir to overtop. 2' of water spilled over for several days.
June 20, 1998	Flood	N/A	N/A	Location of Schuyler, Newport, Fairfield. Thunderstorms with torrential rain produced flash flooding in southern Herkimer County. Roads washed out in the Towns of Schuyler and Newport. Livestock killed in Fairfield. Cost of \$6,000.
January 26, 1999	Flood	N/A	N/A	Flooding occurred on the Moose River.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
July 4, 1999	Flood	N/A	N/A	Three storms brought from 5-7" of rain in < 12-hour period. Flash flooding in Ilion. Spencer and Tory Creeks overflowed in Mohawk. Roads and bridges were closed. People were reported trapped in floating cars and had to be rescued. Prospect St. Bridge and the Fifth Ave. Extension, which caused extensive flooding in 1996, were affected. A small home in Little Falls was badly damaged by a mudslide. A large gabion wall along Maltanner Creek in Middleville near Arnold's Restaurant collapsed. State of Emergency declared in Ilion and German Flatts. Mohawk River crested slightly over flood stage of 15' at Little Falls. Cost of \$250,000.
January 23, 2000	Flood: Ice Jam	N/A	N/A	Flood watch declaration, 6 ft. of ice buildup on Steel Creek creek bed.
February 26, 2000	Flood	N/A	N/A	Moose River exceeded flood stage at McKeever by 4/10'.
April 9, 2000	Flood	N/A	N/A	The Mohawk River exceeded flood stage at the Little Falls gauge, rising to 15.8', nearly a foot above flood stage. Cost of \$50,000.
April 13, 2000	Flood	N/A	N/A	Widespread 1 – 2" rainfall in the Adirondack Watershed resulted in rapid snowmelt. The combination of rain and melting snow led to runoff, causing streams and rivers to rise above flood stage. The Moose River crested at 12.07' exceeding the 11.0' flood stage. West Canada Creek exceeded its 12.27' flood stage.
May 10, 2000	Flood	N/A	N/A	The Mohawk River crested at 17.5' at Little Falls and 1.4' above the 280-foot flood stage at Tribes Hill. Torrential rains caused both the West and East Canada Creeks to overflow, washing out roads in western Herkimer County. Rain caused drainage systems in Middleville to back up, leading to flash flooding. A culvert under Park St. near Reservoir Rd in Herkimer became clogged with debris and resulted in runoff flooding roads and basement. Some residents were forced to evacuate. Cost of \$55,000.
May 13, 2000	Flood, Severe Weather: High Wind	N/A	N/A	A swath of 2 – 4" rain fell in about a 36-hour period. Wind damage was noted in Ephratah with gusts est. to 70 mph downing streets; dime-sized hail. Roads closed in Middleville near Newport; State Rte. 28 closed between Herkimer and Middleville. West Canada Creek spilled over banks and washed away a bridge near Middleville. Street flooding noted in Dolgeville. Moyer Creek overtopped at Columbia Center; other roads washed out; pavement torn apart. State of Emergency declared for Herkimer County. Cost of \$200,000.
July 14, 2000	Flood	N/A	N/A	County Rte. 51 (Ilion) closed due to flooding and mudslides. Roads were closed in the towns of Mohawk and Herkimer. Steel Creek overflowed its banks near the town of Ilion. Cost of \$75,000.
September 2, 2000	Flood	N/A	N/A	Series of slow-moving thunderstorms produced brief heavy rainfall up to 4" in south-central Herkimer Co. Resulting flash flooding occurred on the streets of Herkimer. Carden Creek (East Herkimer) overflowed onto a nearby road and flooded nearby basements. Parts of State Rte. 5 in Little Falls were closed due to 2' of water and mud. Cost of \$29,000.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
May 28, 2002	Flood	N/A	N/A	Scattered thunderstorm produced torrential rainfall in Herkimer County, with local amounts of up to 3' accumulated near Old Forge, causing flash flooding and numerous road wash-outs. Cost of \$10,000.
January 24, 2003	Flood: Ice Jam	N/A	N/A	An ice jam on Steele Creek near Ilion caused water to briefly exceed bank full. The jam was specifically located at the Phillip St. bridge, causing some basements to take in water. The jam broke up with no further problems.
February 2, 2003	Flood: Ice Jam	N/A	N/A	An ice jam formed on West Canada Creek near Rte. 5. More ice settled under the jam, causing it to lift and build in place. Low-lying fields were flooded upstream of the jam.
August 6, 2003	Flood	N/A	N/A	For the fourth straight day, torrential rains brought flooding with 4" of rain between Mohawk and Ilion. Tory and Spencer Creeks overflowed, flood water reached to the car hoods and filled basements in both towns. State of Emergency declared in Mohawk. Most flooding occurred in the area between the Holt Brothers car dealership on West Main St. near Petrie Ave., and Warren Rd. Cost of \$25,000.
March 3, 2004	Flood: Ice Jam	N/A	N/A	A jam on the Mohawk River at Herkimer moved out and headed downstream. No additional information available.
May 24, 2004	Flood	N/A	N/A	The Mohawk River exceeded flood stage by 1.25' at the Lake Delta gauge. Peak lake level at the gauge on the upper Mohawk River was the highest ever recorded, estimated by USGS as a 100-year event. West Canada Creek left its banks in low-lying areas between Newport and Herkimer, topped flood stage by 1.15' at the Hinckley gauge. Flooding occurred along Acme Rd. in Ilion. Maltanner Creek overflowed.
June 29, 2004	Flood	N/A	N/A	Flood waters washed a Dolgeville restaurant on Main St. into East Canada Creek, washed out a bridge on Otsego St. near the high school. In Mohawk, Fulmer Creek flooded, causing evacuation of population using pay loaders. A trailer park was evacuated due to flooding of the West Canada Creek. Other impacted areas include Manheim, Newport, Salisbury, Stark, and Inghams Mills.
August 3, 2004	Severe Storms & Flooding 14 counties) Herkimer – PA	DR-1534	N/A	FEMA Obligated Dollars as of 2014 NYSHMP update: PA – 18.7 million
November 28, 2004	Flood	N/A	N/A	Water across Rte. 5S in Frankfort.
November 17, 2005	Flood	N/A	N/A	Hinckley Reservoir began to flood, remaining above flood stage until early morning of 11/18/2005. Water crested at 1227.31', .31' above flood stage.
June 28-29, 2006	Flood	N/A	N/A	Creek Road residents were evacuated for fear that Robinson Rd. Pond dam would break. Steele Creek was the third bridge in Ilion to collapse. Mohawk River was 4.5' above flood stage, closing the Thruway from Syracuse to Schenectady. 3,000+ National Grid customers were without power, and two power substations were washed away. In June 2007, a newspaper article noted that the storm was the largest in 100 years and indicated problems such as creek walls in German Flatts and landslides west of Little



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				Falls still needed to be addressed. Flooding on Main St. in Dolgeville resulted in evacuations with water level to the bottom of the Route 29 bridge. Building (restaurant), including power and gas lines, washed downstream into East Canada Creek at Dolgeville. A house was lifted off its foundation in Little Falls, due to a mud slide. Rtes. 5 and 168 were closed due to flooding and mudslides. Estimated cost of \$20 million.
July 1, 2006	Severe Storms & Flooding (12 counties) Herkimer – IA	DR-1650	N/A	Damages: \$246.3 million FEMA Obligated Dollars as of 2014 NYSHMP update: IA - \$31.5 million PA - \$211.1 million
July 4, 2006	Flood	N/A	N/A	47 of Erie’s 52 locks closed.
July 22-24, 2006	Flood	N/A	N/A	State of Emergency declared for southern Herkimer Co. due to widespread flash flooding. Fulmer Creek flooded Route 168. Mobile home park evacuated. 200 people were evacuated from Ilion, Dolgeville, Mohawk and Frankfort. Sandbags placed throughout the Town and City of Little Falls. The road to Fischer Elementary School was washed away, as were portions of Rtes. 51 and 168. Herkimer Co. received 3.9” of rain. Steele Creek caused the 3 rd St. bridge in Ilion to collapse. Rte. 28s was closed. In German Flatts, Rte. 5s was flooded and covered with branches and debris. Flash flooding in Middleville.
November 16, 2006	Flood	N/A	N/A	East Canada Creek at Dolgeville exceeded flood stage of 10.0’ and crested at 10.05’ Rte. 5 near Little Falls and Rte. 5S near German Flatts closed due to flooding. Two mudslides closed Rte. 28 between Newport and Middleville.
November 17, 2006	Landslide, Flood	N/A	N/A	Seventy-five feet of bank on the side of the highway opposite West Canada Creek slid across the road, taking five telephone poles, bending the guardrail and making the road impassable. DOT put a detour in place. Sections of German St. in Herkimer were blocked off as water rose to a foot.
November 26, 2006	Flood	N/A	N/A	West Canada Creek at Kast Bridge exceeded flood stage.
December 12, 2006	Severe Storms & Flooding (9 counties) Herkimer – PA	DR-1670	N/A	FEMA Obligated Dollars as of 2014 NYSHMP update: IA \$3 million and PA - \$30 million
March 15, 2007	Flood	N/A	N/A	Roads and bridges were closed in Newport, in the Ilion Gorge, and near State Road 16.
April 24, 2007	Flood	N/A	N/A	Snowmelt caused moderate flooding at Hinckley Reservoir, which exceeded flood stage by 1.11’.
August 29, 2009	Flood	N/A	N/A	Jordanville Road closed from flash flooding in southern Herkimer County. A basement wall collapsed, and a driveway washed out on Shoemaker Rd. in Mohawk.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 25, 2010	Flood: Ice Jam	N/A	N/A	A large ice jam was reported on the East Canada Creek up to the Route 29 bridge in Dolgeville.
July 31, 2010	Flood	N/A	N/A	Moderate residential, government, and commercial damage
June 10, 2011	Severe Storms, Flooding, Tornadoes, and Straight-line Winds (23 counties) Herkimer – PA	DR-1993	N/A	FEMA Obligated Dollars as of 2014 NYSHMP update: PA - \$25.9 million
July 12, 2013	Severe Storms and Flooding (16 counties) Herkimer – PA	DR-4129	N/A	FEMA Obligated Dollars as of January 2017 - PA-\$56.5 million
May 8, 2014	Flood	DR-4180	N/A	Severe storm system, widespread flooding and damage to homes, businesses, and infrastructure. Cost of \$500,000+.

Source: *NCDC Storm Events Database, 2014 NYS HMP, Herkimer HMP 2017*

Note (1): *Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.*

- DR* Federal Disaster Declaration
- EM* Federal Emergency Declaration
- FEMA* Federal Emergency Management Agency
- IA* Individual Assistance
- K* Thousand (\$)
- M* Million (\$)
- MARFC* Middle Atlantic River Forecast Center
- N/A* Not applicable
- NCDC* National Climate Data Center
- NOAA* National Oceanic Atmospheric Administration
- NWS* National Weather Service
- NYS DHSES* New York State Division of Homeland Security & Emergency Services
- PA* Public Assistance
- SHELDUS* Spatial Hazard Events and Losses Database for the U.S.
- USACE* U.S. Army Corps of Engineer



Severe Storm

Known severe storm events that occurred from 1970 to 2016 are identified in Table H.4. With the extensive documentation of severe storm for New York State and Herkimer County, not all sources have been identified nor researched. Therefore, Table H.4 may not include all events that have occurred in the County.

Table E.4. Severe Storm Events between 1970 and 2016

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
June 18, 1970	Severe Weather: Hail	N/A	N/A	The magnitude of hail was 1".
June 19, 1970	Severe Weather: High Wind/ Tornado	N/A	N/A	Located in Newport, Poland. An F1 tornado with a width of 33 yards traveled 2 miles. A woman in Poland was killed when one of several trees fell onto a parked car. A man was electrocuted in Westmoreland due to a downed power line. 10,000+ homes without after 8 5mph wind leveled 1,000 trees.
August 29, 1977	Severe Weather: Hail	N/A	N/A	The magnitude of hail was 1.75".
July 31, 1983	Severe Weather: Hail	N/A	N/A	Herkimer County. The magnitude of hail was 1".
July 11, 1984	Severe Weather: High Wind/ Tornado	N/A	N/A	An F0 tornado passed through the county, traveling 15 miles with a width of 100 yards. Cost of \$3,000.
August 7, 1986	Severe Weather: Hail	N/A	N/A	The magnitude of hail was .75".
May 17, 1990	Severe Weather: High Wind/ Tornado	N/A	N/A	Herkimer County. An F0 tornado passed through the county, traveling 1 mile with a width of 13 yards. One 1 person injured. Cost of \$250,000.
June 21, 1990	Severe Weather: Hail	N/A	N/A	Herkimer County. The magnitude of hail was 1.75".
August 28, 1990	Severe Weather: High Wind/ Tornado	N/A	N/A	Herkimer County. An F1 tornado with a width of 57 yards traveled two miles through the county. Cost of \$2,500,000 and 3 injuries
June 12, 1991	Severe Weather: Hail	N/A	N/A	Herkimer County. The magnitude of hail was .88"
August 4, 1992	Severe Weather: High Wind/ Tornado	N/A	N/A	An F0 tornado ten yards wide passed through the county. Cost of \$50,000.
April 16, 1993	Severe Weather: High Wind	N/A	N/A	Frankfort. No additional information available. Cost of \$5,000.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
August 2, 1993	Severe Weather: High Wind	N/A	N/A	Ilion. No additional information available. Cost of \$5,000.
August 24, 1993	Severe Weather: High Wind, Hail	N/A	N/A	Location of Herkimer, Schuyler, Manheim. The magnitude of hail was .88". Cost of \$5,000.
August 31, 1993	Severe Weather: High Wind	N/A	N/A	Location of Middleville, Newport, Russia, Dolgeville, Webb, Old Forge, Fairfield, Norway, Little Falls. No additional information available. Cost of \$50,000.
August 31, 1993	Drought	N/A	N/A	Location of Mid-Hudson Valley. Prolonged drought caused \$50 million in crop damage throughout the mid-Hudson Valley. Cost of \$50 million.
June 29, 1994	Severe Weather: High Wind	N/A	N/A	No additional information available. Cost of \$1,000.
July 25, 1994	Severe Weather: High Wind	N/A	N/A	Location of Ilion, German Flatts, Fairfield. No additional information available. Cost of \$5,000.
July 30, 1994	Severe Weather: High Wind	N/A	N/A	Location of Dolgeville, Little Falls. No additional information available. Cost of \$5,000.
July 6, 1995	Severe Weather: High Wind	N/A	N/A	Location of Hinckley Reservoir. No additional information available. Cost of \$5,000.
July 15, 1995	Severe Weather: High Wind	N/A	N/A	Location of Herkimer County. No additional information available. Cost of \$50,000 (Herkimer Co.), \$10 million (statewide)
August 3, 1995	Severe Weather: High Wind	N/A	N/A	Location of Big Moose, Eagle Bay. No additional information available. Cost of \$5,000 (Big Moose) & \$7,000 (Eagle Bay)
August 31, 1995	Severe Weather: High Wind	N/A	N/A	Location of Schuyler. No additional information available. Cost of \$5,000.
September 3, 1995	Severe Weather: High Wind	N/A	N/A	Location of Schuyler. Severe thunderstorms downed trees and wires in several locations, one tree damaging two mobile homes. Cost of \$5,000.
September 14, 1995	Severe Weather: High Wind	N/A	N/A	Location of Schuyler. No additional information available. Cost of \$5,000.
April 22, 1996	Severe Weather: High Wind	N/A	N/A	Location of Little Falls. No additional information available. Cost of \$50,000.
May 10, 1996	Severe Weather: High Wind	N/A	N/A	Location of Cedarville. No additional information available. Cost of \$15,000.
July 14, 1996	Severe Weather: High Wind	N/A	N/A	Location of Newport. No additional information available. Cost of \$4,000.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
July 24, 1996	Severe Weather: High Wind	N/A	N/A	Herkimer County. No additional information available. Cost of \$5,000.
January 21, 1997	Severe Weather: Winter Weather	N/A	N/A	Location of Herkimer County. Light sleet and freezing rain cause treacherous driving conditions, resulting in school closures and traffic accidents. Route 28 in northern Herkimer County was closed from McKeever to Old Forge for part of the day. Cost of \$35,000.
February 22, 1997	Severe Weather: High Wind	N/A	N/A	Location of Little Falls, Salisbury. No additional information available. Cost of \$40,000.
July 15, 1997	Flood, Severe Weather: High Wind	N/A	N/A	Torrential rain across the northern portion of the Town of Herkimer caused flash flooding of several streams and road washouts. Frequent lightning strikes accompanied the storm, resulting in several fires. Cost of \$70,000.
July 17, 1997	Severe Weather: High Wind	N/A	N/A	Location of Frankfort. No additional information available. Cost of \$1,000.
July 18, 1997	Severe Weather: High Wind	N/A	N/A	Location of Big Moose, Old Forge. Winds downed trees and wires in northern Herkimer County. Cost of \$14,000.
August 27, 1997	Severe Weather: High Wind	N/A	N/A	Location of Salisbury. Thunderstorm winds downed trees, large limbs, and wires at Salisbury Center. Cost of \$6,000.
January 9, 1998	Severe Weather: Hail	N/A	N/A	Location of Little Falls. A severe thunderstorm produced nickel-sized hail.
May 19, 1998	Severe Thunderstorm: High Wind	N/A	N/A	Location of Dolgeville, Fairfield. A silo collapsed in high winds in North Winfield. Cost of \$3,000.
May 31, 1998	Severe Weather: High Wind	N/A	N/A	Location of Frankfort, Dolgeville, Litchfield/Cedarville. Residential and commercial damage, widespread power outages in eastern NY. Cost of \$80,000.
June 26, 1998	Severe Weather: High Wind	N/A	N/A	Location of Old Forge. Wind damage caused downed trees and power lines, resulting in power outages. Cost of \$5,000.
September 6, 1998	Severe Weather: High Wind	N/A	N/A	Widespread wind damage occurred across multiple counties. Wind in Herkimer County, estimated at 78 mph, downed scores of trees and power lines, leaving many without power.
September 7, 1998	Severe Weather: Hail, High	N/A	N/A	Location of Herkimer County, Ilion, Fairfield, Little Falls. Frequent horizontal lightning and strong NW winds uprooted trees and took down electric and phone lines. Wind speed



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
	wind, Lightning			was estimated at 78 mph. Power was not fully restored for 4 days in some areas. Golf-ball sized hail damaged crops. A farm lost more than 100 acres of silo corn. Herkimer County declared disaster. Cost of \$25,000.
September 11, 1998	Severe Storm	DR-1244	N/A	NY – Severe WX, Sept. 7, 1998
September 26, 1998	Severe Weather: High Wind	N/A	N/A	Location of Columbia Center, Greater Mohawk Valley. A microburst equivalent to an F1 tornado. Cost of \$50,000.
July 3, 1999	Severe Weather: High Wind	N/A	N/A	Location of West Winfield. Fallen trees. Cost of \$1,000.
July 6, 1999	Severe Weather: High Wind	N/A	N/A	Location of Little Falls, Poland, Salisbury. A microburst with wind clocked at 90 mph struck Little Falls, where a barn imploded. Many downed trees and power lines. Cost of \$40,000.
July 21, 2000	Severe Storm	DR-1335	N/A	Total Eligible Damages: \$34.6 million. FEMA Obligated Dollars as of 2014 NYSHMP update: PA - \$31 million
June 2, 2000	Severe Weather: High Wind	N/A	N/A	Located in Cedarville. No additional information available. Cost of \$17,000.
August 1, 2000	Severe Weather: High Wind	N/A	N/A	Downed trees and wires in Russia from 4” of rainfall. Fast-moving nearly 12” on Military Road in Poland. Cost of \$15,000.
August 9, 2001	Severe Weather: High Wind	N/A	N/A	A large storm system caused widespread damage, including downed trees and power poles in Russia, Ohio, Norway, Poland, Fairfield, Salisbury and Dolgeville. In Poland, a 2/10 mi. wide swath of snapped trees and six snapped power poles was found on Rte. 8. Winds estimated at 60 to 80 mph. Hail with 2” diameter also reported. On Rte. 28 (Newport), damage occurred from straight line winds at same estimated speed. One tree struck a house and car. Cost of \$65,000.
May 31, 2002	Severe Weather: High Wind	N/A	N/A	No additional information available. Cost of \$9,000.
June 27, 2002	Severe Weather: High Wind	N/A	N/A	Thunderstorm winds knocked down trees and power lines in Newport. Cost of \$20,000.
August 16, 2002	Severe Weather: Hail	N/A	N/A	Storms produced wind damage in Little Falls, bringing down large limbs. Cost of \$5,000.
May 1, 2003	Severe Weather: High Wind	N/A	N/A	Scattered wind damage reported: a wire was blown down to Rte. 28 in Old Forge; shingles were ripped from a home south of Mohawk; and a barn was destroyed in Mohawk. Cost of \$50,000.



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
April 29, 2004	Severe Weather: Hail	N/A	N/A	A single thunderstorm cell produced large hail ranging from nickel to quarter-size near Beaver River.
August 3, 2004	Severe Storm	DR-1534	N/A	Severe Storms and Flooding
June 9, 2004	Severe Weather: High Wind	N/A	N/A	Numerous trees down across the town of West Winfield; one car was flattened by a large tree. Cost of \$5,000.
July 1, 2004	Severe Weather: Hail	N/A	N/A	Nickel- and penny-sized hail observed in Poland; quarter sized hail covered the ground 2 miles south of McKeever.
July 1, 2006	Severe Storm	DR-1650	N/A	Severe Storms and Flooding
July 20, 2006	Severe Weather: High Wind	N/A	N/A	Law enforcement personnel reported trees and wire blown down over a widespread area near Ilion.
July 25, 2006	Severe Weather: High Wind	N/A	N/A	Trees and power lines were blown down along Rte. 29A near Red School House Rd. near Salisbury Center, with pea-sized hail reported.
December 12, 2006	Severe Storm	DR-1670	N/A	Severe Storms and Flooding
May 31, 2007	Severe Weather: Hail	N/A	N/A	Penny-sized hail reported during a thunderstorm in Russia.
August 25, 2007	Severe Thunderstorm: High Wind	N/A	N/A	Numerous trees and wires were reported down in Russia and West Winfield.
June 10, 2008	Severe Weather: High Wind	N/A	N/A	Trees and wires reported down near Old Forge.
June 22, 2008	Severe Weather: High Wind	N/A	N/A	Peak wind gusts of 60 mph were estimated near Dolgeville.
July 20, 2008	Severe Thunderstorm: High Wind	N/A	N/A	Trees and wires were reported down on Russia Road.
July 7, 2009	Severe Weather: High Wind	N/A	N/A	Thunderstorm downed trees onto wires in Mohawk.
July 11, 2009	Severe Weather: High Wind	N/A	N/A	Thunderstorm downed trees in Little Falls.
July 16, 2009	Severe Weather: High Wind	N/A	N/A	Thunderstorm winds downed a tree on Rte. 5 in Herkimer
August 18, 2009	Severe Weather: High Wind	N/A	N/A	Wires reported down on Spencer and Cline Streets in Dolgeville.
December 25, 2009	Severe Weather:	N/A	N/A	Ice accumulations of up to 4/10" and brisk winds created power outages, mainly in areas above 1,000' elevation. Most outages



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
	Winter Weather			in Dolgeville, but towns of Manheim, Salisbury and Frankfort were also affected.
August 31, 2011	Hurricane	DR-4020	N/A	Hurricane Irene
September 13, 2011	Severe Storm	DR-4031	N/A	Remnants of Tropical Storm Lee
August 31, 2012	<i>Hurricane Irene (28 counties)</i> Herkimer – IA and PA	DR-4020	N/A	FEMA Obligated Dollars as of 2014 NYSHMP update: IA - \$103 million and PA - \$362.5 million
October 30, 2012	<i>Remnants of Tropical Storm Lee (13 counties)</i> Herkimer – IA	DR-4031	N/A	FEMA Obligated Dollars as of 2014 NYSHMP update: IA - \$999 million and PA \$1.26 billion
January 20, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Southern Herkimer County
January 31, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Southern Herkimer County
May 21, 2013	Hail	N/A	N/A	.75 - 1.5 in, Mohawk, East Herkimer, Goodell Corners, Fairfield, Dolgeville
May 21, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Frankfort Hill, Frankfort Center, East Schuyler, Dolgeville
May 29, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Manheim Center, Dolgeville, Harbor, Frankfort, Ilion
June 1-2, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Old Forge, West Winfield
June 24, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Ohio, West Winfield
June 30, 2013	Hail	N/A	N/A	1.00 in., Manheim Center
June 30, 2013	High Wind/Strong Wind	N/A	N/A	50-60 knots, Little Falls, Manheim Center
July 19, 2013	Hail	N/A	N/A	1.00 in., East Frankfort
July 19, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Mohawk, Dolgeville, Russia, Norway, Middlefield
September 2, 2013	High Wind/Strong Wind	N/A	N/A	50-61 knots, Little Falls, Ingham Mills, Dolgeville
September 11, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Poland



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
November 1, 2013	High Wind/Strong Wind	N/A	N/A	50 knots, Herkimer County
June 3, 2014	Lightning	N/A	N/A	1k Property damage, Salisbury Center
June 17, 2014	High Wind/Strong Wind	N/A	N/A	50-60 knots, Old Forge, Beaver River, Eagle Bay, South Columbia, Poland, Middleville, Salisbury Center, Little Falls
July 2-3, 2014	High Wind/Strong Wind	N/A	N/A	50-701 knots, Poland, Newport, Columbia Center, West Winfield, East Winfield, Cedarville, South Columbia, Columbia Center, Jordanville, Ilion, Cullen, Norway, Newville
July 3, 2014	Hail	N/A	N/A	1.00 in., West Winfield
July 8, 2014	High Wind/Strong Wind	N/A	N/A	50 knots, Northwood, Woodin Corners, Wilmurt, Johnson Corners, Newport, Norway, Poland, Cold Brook, West Winfield, Cedarville, Dolgeville, Newville, Cullen
July 8, 2014	Severe Storm	DR-4180	N/A	Severe Storms and Flooding
July 31, 2014	Lighting	N/A	N/A	1k Prop Damage, Salisburg Center
April 20, 2015	High Wind/Strong Wind	N/A	N/A	39 knots/11k property damage, Herkimer County
June 12, 2015	High Wind/Strong Wind	N/A	N/A	50 knots, West Winfield, East Frankfort
December 15, 2015	High Wind/Strong Wind	N/A	N/A	39 knots / 5k property damage, Southern Herkimer County
January 1, 2016	High Wind/Strong Wind	N/A	N/A	43-52 knots, Herkimer County
March 2, 2016	High Wind/Strong Wind	N/A	N/A	43 knots, 10k property damage, Southern Herkimer County
June 20, 2016	High Wind/Strong Wind	N/A	N/A	50 knots, Eagle Bay, Johnson Corners, East Herkimer, Salisbury, Little Falls, Kelhi Corners
June 28, 2016	Hail	N/A	N/A	1.00 in., West Schuyler
June 28, 2016	High Wind/Strong Wind	N/A	N/A	50 knots, East Frankfort
July 1, 2016	High Wind/Strong Wind	N/A	N/A	50 knots, Minnehaha
July 15, 2016	High Wind/Strong Wind	N/A	N/A	50 knots, Eatonville, Mohawk
August 13, 2016	High Wind/Strong Wind	N/A	N/A	50 knots, Frankfort Center, Frankfort, Cedarlake, Middleville, Mohawk, Johnson Corners, Fairfield, Eatonville, Bull Hill, Fairfield, Columbia Center, South Columbia, Little Falls, Manheim Center, Salisbury Center,



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				Ingham Mills, Eagle Bay, Warren

Sources: NCDC Storm Events Database, Herkimer HMP 2017

Note: Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of inflation.

- DR Federal Disaster Declaration
- EM Federal Emergency Declaration
- FEMA Federal Emergency Management Agency
- IA Individual Assistance
- K Thousand (\$)
- M Million (\$)
- Mph Miles Per Hour
- NCDC National Climate Data Center
- NOAA National Oceanic Atmospheric Administration
- NYS New York State
- NWS National Weather Service
- PA Public Assistance
- SHELDUS Spatial Hazard Events and Losses Database for the U.S.
- TSTM Thunderstorms

Severe Winter Storm

Known severe winter storm events that occurred in Herkimer County between 1943 and 2016 are identified in Table E.5. With the extensive documentation of severe winter storm documentation for New York State and Herkimer County, not all sources have been identified nor researched. Therefore, Table E.5 may not include all events that have occurred in the County.



Table E.5. Winter Storm Events in Herkimer County, 1943 and 2016.

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 4, 1943	Severe Weather: Winter Weather	N/A	N/A	Located in Mohawk Valley, Mohawk, Ilion. Per the New York Telephone Company, 3,000 + Mohawk Valley poles were leveled by an ice storm. Eight thousand people were without phones and/or power for 10 days. Downed trees countywide damaged roof structures. Snow was hip deep and roads impassable on Rte. 28 between Mohawk and Richfield Springs. Ilion experienced heavier snowfall in the gorge than areas south due to elevation. Statewide cost of \$1 million.
December 7, 1968	Severe Weather: Winter Weather	N/A	N/A	An ice storm affected in Ilion Gorge, Paines Hollow, Thompson Road (Dolgeville) and Reservoir Road (Little Falls). Over 10,000 homes were without power in Herkimer and Oneida Counties.
February 25, 1995	Severe Weather: Winter Weather	N/A	N/A	A heavy mixture of snow and freezing rain occurred across the Adirondacks and other areas of the state. Snowfall exceeded 11 inches. Treacherous conditions caused man traffic accidents. Ice accumulations of downed tree limbs and power lines in southern Herkimer County left 1,000+ customers without power. Cost of \$50,000.
March 31-April 1, 1997	Winter Storm	N/A	N/A	A late season nor'easter produced rain that changed into heavy wet snow over the Mohawk Valley. Snowfall exceeded two feet in the mountains. Wet snow felled trees and power lines, causing widespread power outages and road closures. Property damage statewide was reported at \$200,000.
January 31, 2000	Winter Storm	N/A	N/A	This storm resulted in a snow accumulation of a foot or more throughout the western Adirondacks, sometimes falling more than three inches per hour. The storm caused \$23,000 in property damage and closed schools and businesses. Snow removal efforts were made more difficult by the presence of large amounts of snow left from previous storms.
March 30, 2001	Winter Storm	N/A	N/A	This storm was the fourth and final nor'easter of March, with an initial mix of snow, sleet and rain that resulted in 6 to 12 inches of snow over the western Adirondacks and elevated sections of the Mohawk Valley. Property damage was reported as \$45,000. Impacts in Herkimer County included downed limbs and trees. Power lines were knocked down on West German Street in the town of Herkimer when a large tree was uprooted.
December 25, 2009	Ice Storm	N/A	N/A	Snow and sleet accumulations of four-tenths of an inch affected southern Herkimer County, causing widespread power outages, mainly in areas above 1,000' elevation. Outages occurred in Dolgeville, Manheim, Salisbury, and Frankfort. No deaths, injuries, or property damage was recorded.
February 8, 2013	Winter Weather (Storm)	N/A	N/A	Herkimer County
December 10, 2013	Winter Weather (Lake-effect)	N/A	N/A	Northern Herkimer County



Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
January 1, 2014	Winter Weather (Heavy Snow)	N/A	N/A	Southern Herkimer County
January 2, 2014	Winter Weather (Storm, Cold)	N/A	N/A	Herkimer County
January 6-7, 2014	Winter Weather (Snow, Cold)	N/A	N/A	Herkimer County
February 5, 2014	Winter Weather (Snow, Cold)	N/A	N/A	Herkimer County
February 13, 2014	Winter Weather	N/A	N/A	Herkimer County
March 12, 2014	Winter Weather (Heavy Snow)	N/A	N/A	Herkimer County
November 18-20, 2014	Winter Weather (Lake-effect)	N/A	N/A	Northern Herkimer County
November 26, 2014	Winter Weather (Storm)	N/A	N/A	Herkimer County
December 9, 2014	Winter Weather	N/A	N/A	Herkimer County
January 1, 2015	Winter Weather (Lake-effect)	N/A	N/A	Northern Herkimer County
January 3, 2015	Winter Weather	N/A	N/A	Southern Herkimer County
January 9, 2015	Winter Weather (Lake-effect)	N/A	N/A	Northern Herkimer County
February 2, 2015	Winter Weather (Heavy Snow)	N/A	N/A	Herkimer County
February 7, 2015	Winter Weather	N/A	N/A	Herkimer County
December 19, 2015	Winter Weather (Lake-effect)	N/A	N/A	Northern Herkimer County
December 28, 2015	Winter Weather	N/A	N/A	Herkimer County
January 1, 2016	Winter Weather (Lake-effect)	N/A	N/A	Northern Herkimer County
January 27, 2016	Winter Weather (Lake-effect)	N/A	N/A	Northern Herkimer County
March 18-19, 2016	Winter Weather (Storm, Snow)	N/A	N/A	Herkimer County

Sources: NCDC, 2017, Herkimer HMP 2017

Note: Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of inflation.



- DR *Disaster Declaration*
- EM *Emergency Declaration*
- FEMA *Federal Emergency Management Agency*
- HMP *Hazard Mitigation Plan*
- N/A *Not Applicable*
- NCDC *National Climatic Data Center*
- NOAA *National Oceanic and Atmospheric Administration*
- NWS *National Weather Service*
- PA *Public Assistance*

Wildfire

A known wildfire event that impacted Herkimer County in 2002 is identified in Table E.6. While there have been previous occurrences of wildfires in Herkimer County, the hazard was previously identified as a moderately low concern in the 2017 Hazard Mitigation Plan. Additionally, there may be small fires that were not previously reported. Therefore, Table E.6 may not include a complete record of all wildfire events that have occurred within the county.

Table E.6. Wildfire Events in Herkimer County, 2002

Dates of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
July 5, 2002	Wildfire	N/A	N/A	A wildfire event impacted the Northern and Southern Herkimer zones due to smoke from a wildfire in northern Quebec, Canada which became trapped under the atmosphere in the Herkimer area.

Sources: *Herkimer HMP 2017*

Note: *Monetary figures within this table were U.S. Dollar (USD) figures calculated during or following the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of inflation.*

FEMA *Federal Emergency Management Agency*

K *Thousand (\$)*

M *Million (\$)*

N/A *Not applicable*



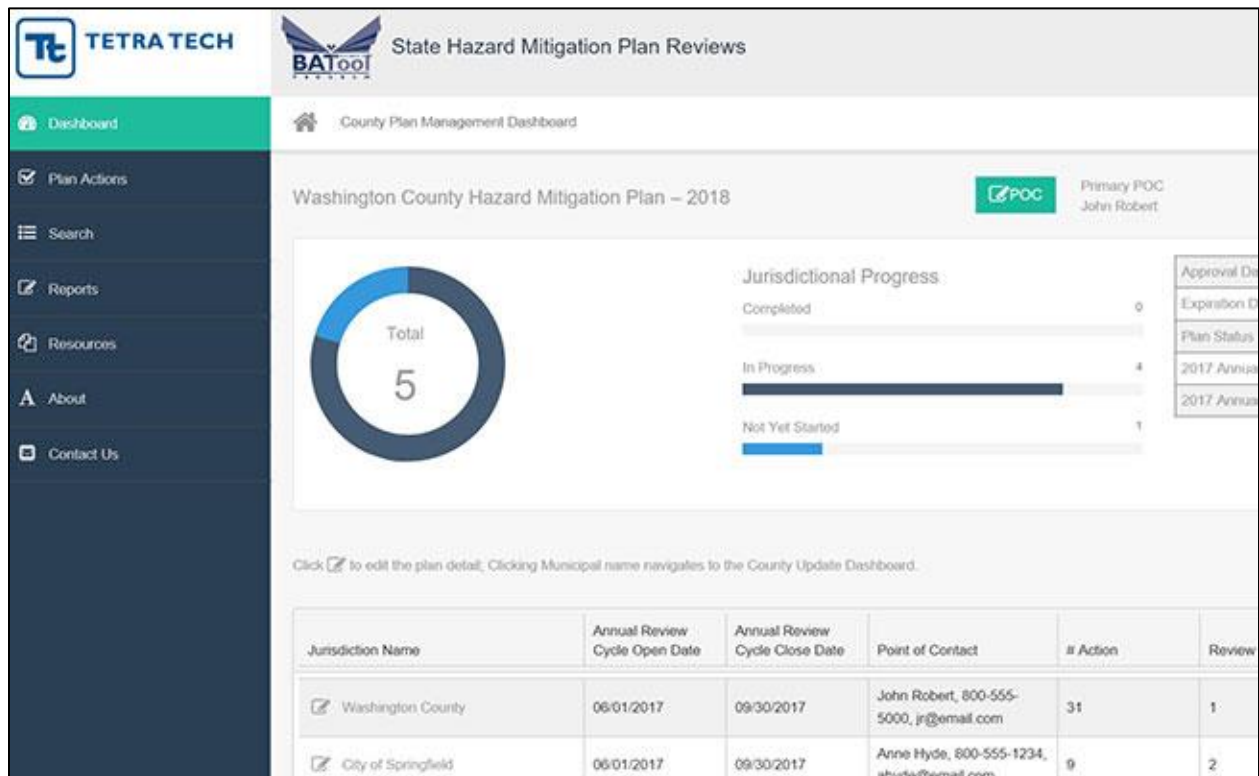
APPENDIX F. PLAN MAINTENANCE TOOLS

This appendix includes tools and worksheets to facilitate plan maintenance and review by the Herkimer County Steering and Planning Committees.

In the first year of the performance period, an online performance progress reporting system, the BAToolSM will provide municipal and county representatives direct access to their mitigation initiatives to easily update the status of each project, document successes or obstacles to implementation, add or delete projects to maintain mitigation project implementation. This online program will capture information and roll all input into a report to summarize mitigation strategy progress.



Figure G-1. BAToolSM Screenshot



The FEMA 386-4 guidance worksheets are also available to assist with progress reporting. These worksheets are provided in this section for ease of access to the HMP Coordinator and Planning Partnership to maintain the 2023 HMP throughout its period of performance.



Plan Goal(s)/Objective(s) Addressed:

Goal: _____

Objective: _____

Indicator of Success (e.g., losses avoided as a result of the acquisition program):

In most cases, you will list losses avoided as the indicator. In cases where it is difficult to quantify the benefits in dollar amounts, you will use other indicators, such as the number of people who now know about mitigation or who are taking mitigation actions to reduce their vulnerability to hazards.

Status (Please check pertinent information and provide explanations for items with an asterisk. For completed or canceled projects, see Worksheet #2 — to complete a project evaluation):

Project Status

Project on schedule

Project completed

Project delayed*

*explain: _____

Project canceled

Project Cost Status

Cost unchanged

Cost overrun*

*explain: _____

Cost underrun*

*explain: _____

Summary of progress on project for this report:

A. What was accomplished during this reporting period?

B. What obstacles, problems, or delays did you encounter, if any?

C. How was each problem resolved?



Next Steps: What is/are the next step(s) to be accomplished over the next reporting period?

Other comments:

Adapted from the North Carolina HMGP Progress Report Form at http://www.dem.dcc.state.nc.us/mitigation/document_index.htm.



Worksheet #2 Evaluate Your Planning Team step **3**

When gearing up for the plan evaluation, the planning team should reassess its composition and ask the following questions:

	YES	NO
Have there been local staffing changes that would warrant inviting different members to the planning team?		
Comments/Proposed Action:		
Are there organizations that have been invaluable to the planning process or to project implementation that should be represented on the planning team?		
Comments/Proposed Action:		
Are there any representatives of essential organizations who have not fully participated in the planning and implementation of actions? If so, can someone else from this organization commit to the planning team?		
Comments/Proposed Action:		
Are there procedures (e.g., signing of MOAs, commenting on submitted progress reports, distributing meeting minutes, etc.) that can be done more efficiently?		
Comments/Proposed Action:		
Are there ways to gain more diverse and widespread cooperation?		
Comments/Proposed Action:		
Are there different or additional resources (financial, technical, and human) that are now available for mitigation planning?		
Comments/Proposed Action:		

If the planning team determines the answer to any of these questions is "yes," some changes may be necessary.



Worksheet #3 Evaluate Your Project Results

step 3

page 1 of 2

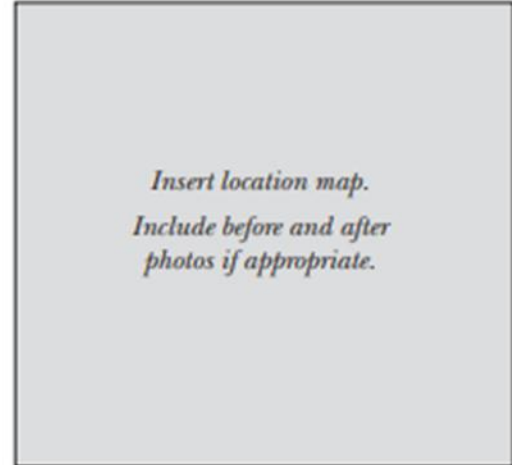
Project Name and Number: _____

Project Budget: _____

Project Description: _____

Associated Goal and Objective(s): _____

Indicator of Success (e.g., losses avoided): _____



Was the action implemented? YES NO



Why not?

Was there political support for the action?

Were enough funds available?

Were workloads equitably or realistically distributed?

Was new information discovered about the risks or community that made implementation difficult or no longer sensible?

Was the estimated time of implementation reasonable?

Were sufficient resources (for example staff and technical assistance) available?

YES NO



What were the results of the implemented action? _____



page 2 of 2

	YES	NO
Were the outcomes as expected? If No, please explain:		
Did the results achieve the goal and objective(s)? Explain how:		
Was the action cost-effective? Explain how or how not:		
What were the losses avoided after having completed the project?		
If it was a structural project, how did it change the hazard profile?		
Additional comments or other outcomes:		

Date: _____

Prepared by: _____



Worksheet #4 Revisit Your Risk Assessment step 4

Risk Assessment Steps	Questions	YES	NO	COMMENTS
Identify hazards	Are there new hazards that can affect your community?			
Profile hazard events	Are new historical records available?			
	Are additional maps or new hazard studies available?			
	Have chances of future events (along with their magnitude, extent, etc.) changed?			
	Have recent and future development in the community been checked for their effect on hazard areas?			
Inventory assets	Have inventories of existing structures in hazard areas been updated?			
	Is future land development accounted for in the inventories?			
	Are there any new special high-risk populations?			
Estimate losses	Have loss estimates been updated to account for recent changes?			

If you answered "Yes" to any of the above questions, review your data and update your risk assessment information accordingly.



Worksheet #5

Revise the Plan

step 4

page 1 of 4

Prepare to update the plan.

When preparing to update the plan:

Check the box when addressed:

1. Gather information, including project evaluation worksheets, progress reports, studies, related plans, etc.	
Comments:	
2. Reconvene the planning team, making changes to the team composition as necessary (see results from Worksheet #2).	
Comments:	

Consider the results of the evaluation and new strategies for the future.

When examining the community consider:

Check the box when addressed:

1. The results of the planning and outreach efforts.	
Comments:	
2. The results of the mitigation efforts.	
Comments:	



3. Shifts in development trends.	
Comments:	
4. Areas affected by recent disasters.	
Comments:	
5. The recent magnitude, location, and type of the most recent hazard or disaster.	
Comments:	
6. New studies or technologies.	
Comments:	
7. Changes in local, state, or federal laws, policies, plans, priorities, or funding.	
Comments:	



8. Changes in the socioeconomic fabric of the community.	
Comments:	
9. Other changing conditions.	
Comments:	

Incorporate your findings into the plan.

When examining the plan consider:

Check the box when addressed:

1. Revisit the risk assessment. (See Worksheet #4)	
Comments:	
2. Update your goals and strategies.	
Comments:	
3. Recalculate benefit-cost analyses of projects to prioritize action items.	
Comments:	



APPENDIX G. CRITICAL FACILITY INVENTORY

G.1 OVERVIEW

This section contains information and details to support information provided in Section 4 – County Profile which provides the distribution of critical facilities located within Herkimer County and its municipalities. Due to the sensitive nature of this information, details have been redacted. Contact the HMP Coordinator, for more information contact John J. Raymond, Director Herkimer County Emergency Services via email jraymond@herkimercounty.org.



APPENDIX H. PLANNING GUIDANCE

This appendix includes the 2022 NYS DHSES planning standards and guidelines for hazard mitigation planning, as well as FEMA guidance for classifying Lifelines within a community.



2022 New York State Hazard Mitigation Planning Standards (Supersedes the 2017 NYS Hazard Mitigation Planning Standards)

Congratulations on taking the first steps to update a multi-hazard mitigation plan for your community!

The goal of both the New York State Division of Homeland Security and Emergency Services (NYS DHSES) and FEMA is that all jurisdictions develop robust mitigation plans and tangible mitigation actions that will contribute to long-term risk reduction.

The 2022 NYS Hazard Mitigation Planning Standards reduce the 2017 Hazard Mitigation Planning Standards. Any plan currently in development, regardless of date funded, will be held *only* to these reduced standards.

PLEASE NOTE:

On April 19, 2023, FEMA's new Local Mitigation Planning Policy will take effect. Plans approved on or after this date **must meet requirements** as outlined in the linked [Policy Guide](#).

https://www.fema.gov/sites/default/files/documents/fema_local-mitigation-planning-policy-guide_042022.pdf

The additional state requirements detailed below are intended to improve the quality of hazard mitigation plans and encourage the development of the most appropriate and effective mitigation projects for your community. It is recognized that many jurisdictions have inherent constraints and certain information may be difficult to provide. NYS DHSES and FEMA will work with you throughout the entire planning process to ensure the successful development of your community's hazard mitigation plan.

There are a multitude of resources that exist to provide guidance and support throughout the planning process, developed by Federal and State agencies, as well as private and research-based groups. We urge you to contact us so that we may direct you to additional resources and provide you with the most comprehensive technical assistance possible.

For questions and comments, please call our offices at 518-292-2304.

Additional contact information will be provided to sub-recipients for more direct assistance.



Please note:

Jurisdiction is used to describe all government entities within the boundaries set forth in the Multi-Jurisdictional Plan (typically County-wide), including the County itself, as well as cities, towns, villages and potentially tribes that choose to join a multi-jurisdictional plan.

Special Flood Hazard Area (SFHA) is defined as the area that will be inundated by the flood event having a 1-percent change of being equaled or exceeded in a given year (previously known as the 100-year flood event).

1. Assess Critical Facilities

Critical facilities must remain accessible and functional before, during and after disasters to meet the jurisdictions Continuity of Government (COG) and Continuity of Operations (COOP) standards, and to support important emergency, government and sheltering functions.

Jurisdictions must identify all critical facilities, assess their vulnerabilities, and evaluate and ensure they are protected to a 0.02% chance (500-year) flood event. Critical facilities that are located in an SFHA and/or have been previously flooded, must be protected against a repeat of that flood or to the 0.02% chance flood event, which ever provides the greater protection.

- The plan must document the name of facility, type of facility, jurisdictional location, and exposure to a 1% (100-year) and 0.02% chance event.
- The plan must document those critical facilities are protected to a 0.02% flood event, or previous worst case flood event. For those that do not meet this level of protection, the plan must include an action to meet or go beyond this criterion or explain why it is not feasible to do so. Going beyond this criterion is optional but may be wise to protect against a future worst case due to climate change.

2. Include Jurisdictional Annexes

Jurisdictional annexes provide a unique, stand-alone guide to mitigation planning for each jurisdiction.

The plan must be organized so that there is an annex for every jurisdiction within the county's borders, including the County.

- The plan must include a table in the Introduction section clearly identifying all jurisdictions and which are seeking FEMA approval.
- The annex for each jurisdiction seeking FEMA approval must include the following:
 - Contact Information;
 - Jurisdiction Profile;
 - Hazard Identification (specific to the jurisdiction);
 - Hazard Event History;
 - National Flood Insurance Program (NFIP) Summary (to meet Federal Standards);
 - Critical Facilities Information (to meet F1);
 - Jurisdiction/public identified vulnerabilities;
 - Additional public involvement;
 - Capabilities Assessment;
 - Mitigation Strategy:
 - All identified previous mitigation activities with current status;
 - All proposed mitigation activities (both new and carried forward, to meet F3)
- The annex for each non-participating jurisdiction (those not seeking FEMA approval at this time), must include a cover sheet and should include as much information as is available.



3. Develop Mitigation Actions

Projects that are well developed and documented in one place are more quickly identifiable for selection when grants become available, making implementation that much more likely.

Within each jurisdictional annex, jurisdictions must develop a minimum of two (2) new or carryover (not started) proposed mitigation actions that include all information requested in the NYS DHSES LHMP Proposed Action spreadsheet. For jurisdictions containing an SFHA, one (1) of these actions must be for a project that addresses flooding.

4. Post Draft Plan Online

Allowing the public to comment on the draft plan increases awareness about how mitigation saves lives and reduces risk and allows a final opportunity for public input.

The public must have an opportunity to view and comment on the draft plan prior to submittal.

- The draft plan must be posted in full (except for discretionary sensitive information) on an existing county/jurisdiction website, or one created for the purpose of soliciting comments, for 30 days or the time prescribed by local law, whichever is greater, and the plan must describe efforts made to solicit public comments from potentially underserved areas where residents may not have access to a computer to view the website. The website must clearly identify how the public can comment on the plan, to include either specific contact information to send comments or a user-friendly form or survey.

After NYS DHSES and FEMA Approval

- Once designated Approvable Pending Adoption (APA) or Approved by FEMA, the final plan must be placed on the same website (cited above) in its entirety (except for discretionary sensitive information).
- Final payment will occur only after 50% of the participating jurisdictions have adopted the plan and provided adoption resolutions to NYS DHSES. For county-led hazard mitigation planning efforts, the county must be one of the adopting jurisdictions.

The chart below shows the requirements as they appear on the plan review tool used by NYS DHSES and FEMA Region II to determine whether a submitted plan meets federal and state requirements.

1. REGULATION CHECKLIST	Location in Plan	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)	(section and/or page number)		
ELEMENT F. ADDITIONAL STATE REQUIREMENTS – NYS HAZARD MITIGATION PLANNING STANDARDS			
These are required actions for plans developed with NYS DHSES-administered funds.			
H1. Do jurisdictions identify critical facilities, assess vulnerabilities, and ensure protection to a 0.02% flood event or worst-case scenario?			
H2. Does the plan include an annex for every jurisdiction within the County's boundaries?			
H3. Within each jurisdictional annex, are projects developed in accordance with the NYS DHSES Proposed Projects Table?			
H4. Was the draft plan posted for public comment?			
Note: The applicant is required to address the 2022 NYS Hazard Mitigation Planning Standards as required actions for a hazard mitigation plan developed with funds administered by NYS DHSES.			
<u>ELEMENT H: REQUIRED REVISIONS</u>			
<i>Please see opportunities for improvement</i>			



APPENDIX I. LINKAGE PROCEDURES

This Appendix contains the linkage procedures for the Herkimer County Multi-Jurisdictional Hazard Mitigation Plan.

I.1 ADMINISTRATIVE PROCESS FOR “LINKAGE” TO THE HERKIMER COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN

Even though that initial development of the Herkimer County Multi-Jurisdictional Hazard Mitigation Plan (the Plan) included 26 planning partners, not all eligible local governments within the defined planning area are included in this plan. Completed jurisdictional annexes are presented in Section 9. Any non-participating local governments and other local jurisdictions such as Fire Districts, Utility Districts, School Districts and any other eligible local government as defined in 44 CFR 201.2 within the Herkimer County planning area can join this plan as a participating jurisdiction and to ultimately achieve approved status by following the linkage procedures defined in this appendix.

It is assumed that some or all of these non-participating local governments may choose to “link” to the Plan at some point in time to gain eligibility for programs under the DMA. In addition, some of the current partnership may not continue to meet eligibility requirements due to the lack of active participation as prescribed by the plan. These “linkage” procedures will define the requirements established by the Herkimer County HMP Planning Committee and all planning partners for dealing with the increase or decrease in planning partners linked to this plan. It should be noted that currently non-participating jurisdictions within the defined planning area are not obligated to link to this plan. These jurisdictions can choose to do their own “complete” plan that addresses all required elements of section 201.6 of 44CFR.

I.1.1 Increasing the Partnership Through Linkage

Eligibility

Eligible jurisdictions located in the planning area may link to this plan at any point during the plan’s performance period. Eligible jurisdictions located in the planning area may link to this plan at any point during the plan’s performance period (5 years after final approval). Eligibility will be determined by the following factors:

- The linking jurisdiction is a local government as defined by the Disaster Mitigation Act.
- The boundaries or service area of the linking jurisdiction is completely contained within the boundaries of the planning area established during the 2021 hazard mitigation plan development process.



- The linking jurisdiction’s critical facilities were included in the critical facility and infrastructure risk assessment completed during the 2021 plan development process.

Requirements

It is expected that linking jurisdictions will complete the requirements outlined below and submit their completed template to the lead agency Herkimer County Department of Emergency Services for review within six months of beginning the linkage process:

1. The Herkimer County Hazard HMP Steering Committee has established an annual window for which linkage to the plan can occur. Linking jurisdictions are instructed to complete the following procedures during this time frame.
2. The current non-participating jurisdiction contacts the Herkimer County Hazard Mitigation Planning Coordinator for the Plan and requests a "Linkage Package". The Herkimer County Hazard Mitigation Planning Coordinator is:

Mailing Address: Herkimer County Emergency Services
COML – COMT | NYS COMU
71 Reservoir Road
Herkimer, New York 13350

Contact Name: John J. Raymond, Director

Email Address: jraymond@herkimercounty.org

Telephone: (315) 867-1212

3. The Herkimer County Hazard Mitigation Planning Coordinator will provide a linkage package that includes:
 - Copy of Volume 1 and 2 of the Plan (digital).
 - Planning Partner's Expectations Sheet.
 - A Sample "Letter of Intent" to Link to the Plan.
 - A Jurisdictional Template and Instructions.
 - A copy of Section 201.6 of Chapter 44, the Code of Federal Regulations (44CFR), which defines the federal requirements for a local hazard mitigation plan.
4. The new jurisdiction will be required to review both volumes of the Plan which includes the following key components for the planning area:
 - The Herkimer County risk assessment.
 - The plan’s goals and objectives;



- Plan implementation and maintenance procedures;
- Catalog of potential mitigation actions; and
- County-wide initiatives.

Once this review is complete, the jurisdiction will complete its specific jurisdictional annex by following the template and its instructions for completion provided by the Herkimer County Hazard Mitigation Planning Coordinator. Technical assistance (TA) can be provided upon. This TA may be provided by the Herkimer County Hazard Mitigation Planning Coordinator or any other resource within the Planning Partnership such as a member of the HMP Steering Committee or a currently participating jurisdiction. The Herkimer County Hazard Mitigation Planning Coordinator will determine who will provide the TA and the possible level of TA based on resources available at the time of the request.

5. The new jurisdiction will also be required to develop a public involvement strategy that ensures their public's ability to participate in the plan development process. At a minimum, the new jurisdiction must make an attempt to solicit public opinion on hazard mitigation at the onset of this linkage process and a minimum of one public meeting to present their draft jurisdiction specific annex for comment, prior to adoption by the governing body. The Planning Partnership will have available resources to aid in the public involvement strategy such as the Plan website. However, it will be the new jurisdiction's responsibility to implement and document this strategy for incorporation into their annex.

It should be noted that the Jurisdictional Annex templates do not include a section for the description of the public process. This is because the original partnership was covered under a uniform public involvement strategy that covered the operational area that is described in volume 1 of the plan. Since the new partner was not addressed by that strategy, they will have to initiate a new strategy, and add a description of that strategy to their annex. For consistency, new partners are encouraged to follow the public involvement format utilized by the initial planning effort as described in Volume 1 of the Plan.

6. Once their public involvement strategy is completed and they have completed their template, the new jurisdiction will submit the completed package to the Herkimer County Hazard Mitigation Planning Coordinator for a pre-adoption review to ensure conformance with the regional plan format.
7. The Herkimer County Hazard Mitigation Planning Coordinator will review for the following:
 - Documentation of public involvement and mitigation action development strategies;
 - Conformance of template entries with guidelines outlined in instructions;
 - Chosen actions are consistent with goals, objectives, and mitigation catalog of Herkimer County Hazard Mitigation Plan; and
 - Designated point of contact.



The Herkimer County Hazard Mitigation Planning Coordinator may utilize members of the HMP Steering Committee or other resources to complete this review. All proposed linked annexes will be submitted to the HMP Steering Committee for their review and comment prior to submittal to the New York State Division of Homeland Security and Emergency Services (NYS DHSES).

8. Plans approved and accepted by the HMP Steering Committee will then be forwarded to NYS DHSES for review with cover letter stating the forwarded plan meets local approved plan standards and whether the plan is submitted with local adoption or for criteria met/plan not adopted review.
9. NYS DHSES will review plans for state and federal compliance. Non-compliant plans are returned to the jurisdiction for correction. Compliant plans are forwarded to FEMA Region II office for review with annotation as to the adoption status.
10. FEMA Region II reviews the new jurisdiction's plan in association with the approved plan to ensure DMA compliance. Region II notifies new jurisdiction of results of review with copies to NYS DHSES and approved planning authority.
11. New jurisdiction corrects plan's shortfalls (if necessary) and resubmits to NYS DHSES through the approved plan lead agency.
12. For plans with no shortfalls that have not been adopted from the Region II review or outstanding corrected shortfalls, the new jurisdiction governing authority adopts the plan (if not already accomplished) and forwards adoption resolution to Region II with copies to lead agency and NYS DHSES.
13. Region II Director notifies new jurisdiction governing authority of plan approval.

The new jurisdiction plan is then included with Herkimer County Multi-Jurisdictional HMP and the linking jurisdiction is committed to participate in the ongoing plan implementation and maintenance identified in Volume 1 of the HMP.



APPENDIX J. DAM FAILURE (CONFIDENTIAL)

This is a confidential appendix that summarizes the quantitative vulnerability assessment conducted for the dam failure hazard in Herkimer County. This section contains information and details to support information provided in Section 5.4.1 – Dam Failure Profile which provides the information regarding dam failure in Herkimer County. Due to the sensitive nature of this information, details have been redacted. Contact the HMP Coordinator, for more information contact John Raymond, Director, Herkimer County Office of Emergency Services at jraymond@herkimercounty.org.



APPENDIX K. PUBLIC COMMENT

This appendix provides documentation of public comment received following public review of the draft Herkimer County Hazard Mitigation Plan. Public feedback on the draft plan is an important part of the hazard mitigation planning process. Public comments have been addressed throughout the HMP as appropriate.

K.1 PUBLIC COMMENTS ON THE DRAFT PLAN

This section contains the public comment responses from the public review of the draft Herkimer County Hazard Mitigation plan. Comments were received from four residents for the entire plan and for specific sections. The public comments are provided in the following summary, with personal information removed.

K.1.1 Comments on the Entire Plan

- **Comment 1:** Section 5.2 - Identification of Hazards of Concern. *What is being done to prevent future flooding of Bingham Mill Road area when Tamarac Creek flooded the area back in 2019? The creek needs to be opened with heavy equipment, but nothing has been done. The flood will happen again if nothing is done. We went a full year as a new bridge was put in because the old bridge washed away. Cemetery road is still closed with no plan to correct wash out. Soon the coffins will be floating away.*
 - **Response:** Culvert projects have been installed to increase capacity, and the bridge has been rebuilt. Further study needs to be undertaken to determine how to reduce flooding. Access due to right of way and land ownership are issues.
- **Comment 2:** *The plan is very long. Would it be possible to add page numbers and link the table of contents to jump to a specific section. Also, remove the table of contents for Volume 1 in Volume 2. Table of Contents for Volume 2 is missing headers. It's confusing.*
 - **Response:** The document is bookmarked for ease of navigation. In addition, the table of contents is linked to provide navigation to each section of the plan.
- **Comment 3:** *Would the town representatives that were not involved or attended the planning meetings still be able to access funds, if needed?*
 - **Response:** Only jurisdictions that have participated and been deemed approval pending adoption by FEMA and who have adopted the plan by resolution will be eligible for federal pre-disaster mitigation funds. However, should a jurisdiction wish to develop



and adopt a hazard mitigation plan, Appendix I, Linkage Procedures, provides guidance on how to do so.

K.1.2 Comment on Section 5.4.7 – Wildfire

- **Comment 1:** *What about wildfire smoke from Canada and other part of the US? It's a risk for people with asthma, etc.*
 - **Response:** While wildfire smoke can be included in future updates of the hazard mitigation plan, mitigation of this hazard located outside of the county borders is limited. Local actions related to emergency preparedness or response may be included in the plan but would not be eligible for federal pre-disaster mitigation funding.

K.1.3 Comments on Section 9.10

- **Comment 1:** *Planning Team Points of contact: the primary point of contact and the Alternative point of contact need to be reversed. Dominic Frank is the primary point of contact while Dan Stalteri is the Alternate.*
 - **Response:** This has been updated.
- **Comment 2:** *Proposed Hazard Mitigation Initiatives 2023 Herkimer T 003. Since the submission of the Town's information a critical issue has been discovered and has been red flagged by NYS DOT with the Don Mitchell Bridge that crosses the West Canada creek at shells Bush Road.*
 - **Response:** This has been noted in the annex. "The Town will continue to seek funding for the 2016-2017 C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning Study to resolve the issues stemming from the German Street Extension and West Canada Creek. A specific, critical issues has been flagged by NYS DOT with the Don Mitchell Bridge that crosses the West Canada creek at shells Bush Road. The town will engage an engineering firm to design the mitigation.
- **Comment 3:** *Proposed Hazard Mitigation Initiatives 2023 Herkimer T 009. 1.The narrative speaks to issues with bridges within the Village of Herkimer. So, I believe this initiative belongs in the Village of Herkimer's Plan versus the town's Plan.*
 - **Response:** This has been updated to refer to the Town.

K.1.4 Comment on Appendix D

- **Comment 1:** *Information is missing- the results, etc. are not provided.*
- **Response:** Survey results will be included. This were omitted accidentally.



K.1.5 Comment on Appendix E-Supplementary Data

- **Comment 1:** *Includes an earthquake from Virginia- should be removed.*
 - **Response:** This has been removed.